CEMBRE

GENERAL CATALOGUE



www.cembre.com

CEMBRE AT A GLANCE

INNOVATION IS IN OUR DNA

267
Patents and filled applications

121
Registered trademarks in 27 countries

MAIN MANUFACTURING SITE, ITALY

60,000
m^2 of space dedicated to offices, factories, laboratories

121,000
m^2 of site

OUR PRODUCT CODES

17,995
different product codes sold each year

19,515
product codes are available for immediate dispatch

AUTOMATED WAREHOUSE

60,000
bins capacity

10,000
order lines per working day

are registered trademarks of CEMBRE S.p.A.

CEMBRE
Cembre
Crimpstar
ZETApiù
ZETAblock
ZETAmini
SICURclips
MAXIblock
spiralblock
MAXIbrass
EWO
EASY WIRE ORGANIZER

Quality and Innovation: our priorities

LRQA CERTIFIED ISO 9001-2015

Certified Quality Management System

LRQA CERTIFIED ISO 14001-2015

Certified Environmental Management System

LRQA CERTIFIED ISO 45001

Certified Occupational Health&Safety Management System


Certificate of Approval

This is to certify that the Management System of:

CEMBRE S.p.A.

Via Serenissima 9, 25135 Brescia, Italy

has been approved by Lloyd's Register to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 0030013

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.

Daniel Oliva Marcilio de Souza
Area Operations Manager - South Europe
Issued by: Lloyd's Register Quality Assurance Italy Srl
for and on behalf of: Lloyd's Register Quality Assurance Limited


Certificate of Approval

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has been approved by Lloyd's Register to the following standards:

ISO 14001:2015

Approval number(s): ISO 14001 – 0029452

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.

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Certificate of Approval

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CEMBRE S.p.A.

Via Serenissima 9, 25135 Brescia, Italy

has been approved by Lloyd's Register to the following standards:

ISO 45001:2018

Approval number(s): ISO 45001 – 0029580

This certificate is valid only in association with the certificate schedule bearing the same number on which the locations applicable to this approval are listed.

The scope of this approval is applicable to:
Design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.

Daniel Oliva Marcilio de Souza
Area Operations Manager - South Europe
Issued by: Lloyd's Register Quality Assurance Italy Srl
for and on behalf of: Lloyd's Register Quality Assurance Limited

"It is the aim of CEMBRE S.p.A. and all its employees to pursue the satisfaction of their customers through the fulfilling of their needs by meeting their legitimate expectations."

To achieve this goal, CEMBRE places the following principles at the very heart of its work:

- highest quality product and services
- continuously research and innovative solutions.
- safeguarding the environment and protecting the health and safety of workers and users of its products
- respect and promote the values set out in the Company's Code of Ethics
- ensure strict fulfillment of statutory, national and international laws and regulations

The Company's Management System, certified in accordance with ISO 9001 : 2015 quality standards, ISO 14001 : 2015 for environmental protection and ISO 45001 : 2018 standard for the protection of the health and safety of workers, **are the tools used to translate the principles of company policy into corporate objectives and to monitor their fulfilment.**

RoHS COMPLIANT 2011/65/EU

All CEMBRE products comply with Directive 2011/65/EU of the European Parliament and Council dated 8 June 2011 (and subsequent amendments)

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ELECTRICAL CONNECTORS



CEMBRE

symbol description

electrical connectors



Insulation sleeve in Polyvinylchloride



Insulation sleeve in Polycarbonate



Insulation sleeve in Nylon PA6.6



Insulation sleeve in Polyethylene High Density



Heat shrinkable



Insulation sleeve form to allow easy “introduction" of the conductor



Manufactured from electrolytic Copper strip with a purity greater than 99.9%



Manufactured from Brass strip with a purity greater than 99.9%



Manufactured from electrolytic Copper tube with a purity greater than 99.9%



Manufactured from electrolytic Copper wire with a purity greater than 99.9%



Brazed seam



Brass connectors



Bimetallic connectors, Aluminium and Copper.



Aluminium connectors of of a purity equal to or greater than 99,5%.



Aldrey connectors



Zinc Plated Steel connectors



Internal surface is filled with special grease so as to avoid oxidation of the connector



Low and medium voltage connectors



Connector provided with central stop



Colour coded connectors



Facilitated introduction of the conductor



Inspection hole for checking the correct introduction of the conductor



Contained palm connectors



Annealed material



Electrolytically tin plated to avoid oxidation; min 3µm



Lugs angled

symbol description

electrical connectors

Zinc Plated Steel screws

Zinc Plated Steel nuts

Hexagonal crimp

Radial crimp

Indent crimp

Deep indent crimp

Oval crimp

Trapezium crimp

Circular crimp

Semicircular crimp

Indent crimp

Operating temperature range

Degree of protection

UL LISTING Marking valid in USA & CANADA

UL LISTING Marking valid in USA & CANADA

In accordance with DIN 46235

Meets the requirements for fire testing of materials and components for trains EN 45545-2:2015

Halogen free



CEMBRE

RF BF GF

PVC INSULATED CRIMP TERMINALS

F range funnel entry - for Copper conductors



PVC | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +80°C | RADIAL

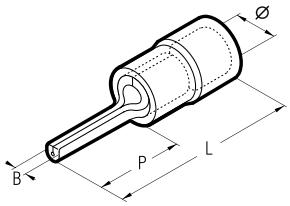
The unique funnel shaped PVC sleeve guarantees total insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection.
The internal surface of the barrel is rifled to improve contact with conductor strands when crimped and to increase tensile strength.
The "F" range of terminals offers a wide selection of rings, forks, pins and blades, designed to meet the ever changing end user requirements.

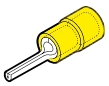
The PVC insulation, is a self extinguishing thermoplastic material class V0 (UL 94).
The operating temperature range is – 20 to + 80°C (Surge + 90°C).
Recommended crimping tools are shown on pages 170 to 209, 296.

c UL us File no. E125401

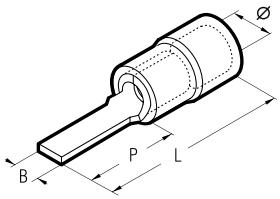


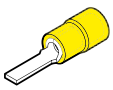
pin terminals



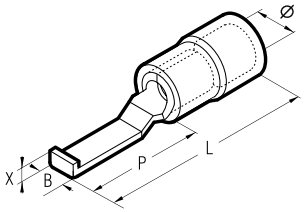
Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RF-P8	4,0	1,6	8,0	17,8	3.000/100
	RF-P10	4,0	1,6	10,0	19,8	3.000/100
	RF-P12	4,0	1,6	12,0	22,0	3.000/100
 1,5÷2,5 (16÷14)	BF-P8	4,9	1,6	8,0	17,8	2.500/100
	BF-P10	4,9	1,6	10,0	19,8	2.500/100
	BF-P12	4,9	1,6	12,0	21,8	2.500/100
 4÷6 (12÷10)	GF-P10	6,6	2,2	10,0	24,5	1.000/100
	GF-P12	6,6	2,2	12,0	26,7	1.000/100
	GF-P14	6,6	2,2	14,0	28,7	1.000/100

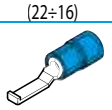
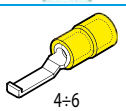
blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RF-PP12	4,0	3,0	12,8	22,8	3.000/100
	RF-PP12/1	4,0	3,0	11,3	21,3	3.000/100
	RF-PP12/19	4,0	1,9	13,2	23,2	3.000/100
	RF-PP12/23	4,0	2,3	13,2	23,2	2.500/100
	RF-PP14	4,0	3,0	14,8	24,8	2.500/100
	RF-PP16/23	4,0	2,3	17,2	27,2	2.500/100
 1,5÷2,5 (16÷14)	BF-PP10	4,9	3,5	10,0	20,0	2.500/100
	BF-PP12	4,9	3,5	12,8	22,8	2.500/100
	BF-PP12/25	4,9	2,5	13,3	23,3	2.000/100
	BF-PP12/29♦	4,9	2,9	13,3	23,3	2.500/100
	BF-PP16/25	4,9	2,5	17,2	27,2	2.500/100
 4÷6 (12÷10)	GF-PP12	6,6	4,0	13,3	27,4	1.000/100
	GF-PP17	6,6	2,9	19,2	33,3	1.000/100

hooked blade terminals



Conductor Size sq mm (AWG)	Type	Dimensions mm Ø	B	P	L	X	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RF-PPL30♦	4,0	3,0	17,5	28,3	1,7	2.500/100
	RF-PPL46♦	4,0	4,6	17,5	28,3	1,7	2.500/100
 1,5÷2,5 (16÷14)	BF-PPL30♦	4,9	3,0	17,5	28,3	1,7	2.000/100
	BF-PPL46♦	4,9	4,6	17,5	28,3	1,7	2.000/100
 4÷6 (12÷10)	GF-PPL46♦	6,6	4,6	17,5	32,6	1,9	1.000/100

♦*Not UL approved*

PVC INSULATED CRIMP TERMINALS

RF BF GF

F range funnel entry - for Copper conductors

NEW

VALSTAR-N4



Robust plastic case with compartments, containing:

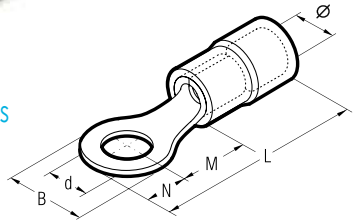
- An assortment of PVC insulated crimp terminals for conductor sizes 0,25 to 6 mm² (22÷10 AWG).
- Cable ties
- Tool Crimpstar® HP3.

Connectors included:

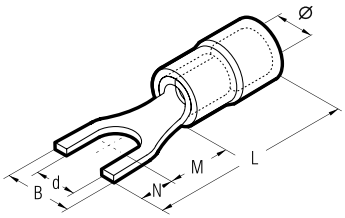
- Qty 100 terminals RF-M4
- Qty 100 terminals BF-M5
- Qty 100 terminals GF-M6
- Qty 100 terminals RF-F608P
- Qty 100 terminals BF-F608P
- Qty 100 connectors PL03-M
- Qty 100 cable ties G100X2.5

PVC · Cu-ETP · EASY ENTRY · ANNEALED · 3µm TIN PLATED · -20°C +80°C · RADIAL

ring terminals



fork/spade terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag
0,25÷1,5 (22÷16)	2	RF-M2*♦	4,0	5,6	4,5	2,8	17,3	2,2	3.000/100
	3	RF-M3	4,0	5,6	4,5	2,8	17,3	3,2	3.000/100
	3,5	RF-M3.5	4,0	5,6	4,5	2,8	17,3	3,7	3.000/100
	3,5	RF-M3.5/1	4,0	6,2	7,1	3,1	20,2	3,7	3.000/100
	4	RF-M4	4,0	7,0	6,5	3,5	20,0	4,3	3.000/100
	4	RF-M4/3♦	4,0	7,8	7,1	3,9	21,0	4,3	3.000/100
	5	RF-M5	4,0	7,8	7,1	3,9	21,0	5,3	2.500/100
	6	RF-M6	4,0	9,4	8,1	4,7	22,8	6,4	2.500/100
	6	RF-M6/1	4,0	12,0	10,3	6,0	26,3	6,4	2.000/100
	7	RF-M7	4,0	9,4	8,1	4,7	22,8	7,2	2.500/100
	8	RF-M8	4,0	12,0	10,3	6,0	26,3	8,4	2.000/100
	10	RF-M10	4,0	15,5	13,0	7,7	30,8	10,5	1.500/100
	12	RF-M12	4,0	18,0	15,5	9,0	34,5	13,0	1.500/100
1,5÷2,5 (16÷14)	2	BF-M2*♦	4,9	5,6	5,0	2,8	17,8	2,2	3.000/100
	3	BF-M3	4,9	5,6	5,0	2,8	17,8	3,2	2.500/100
	3,5	BF-M3.5	4,9	5,6	5,0	2,8	17,8	3,7	2.500/100
	3,5	BF-M3.5/1	4,9	6,2	6,5	3,1	19,6	3,7	2.500/100
	4	BF-M4	4,9	8,0	6,5	4,0	20,5	4,3	2.500/100
	5	BF-M5	4,9	8,0	7,5	4,0	21,5	5,3	2.000/100
	6	BF-M6	4,9	9,4	8,6	4,7	23,3	6,4	2.000/100
	6	BF-M6/1	4,9	12,0	10,3	6,0	26,3	6,4	2.000/100
	6	BF-M6/2*♦	4,9	8,4	5,4	4,2	19,6	6,4	2.500/100
	7	BF-M7	4,9	10,0	7,8	5,0	22,8	7,2	2.000/100
	8	BF-M8	4,9	12,0	10,3	6,0	26,3	8,4	1.500/100
	10	BF-M10	4,9	15,5	13,0	7,7	30,8	10,5	1.500/100
	12	BF-M12	4,9	18	15,5	9,0	34,5	13,0	1.000/100
4÷6 (12÷10)	3	GF-M3	6,6	8,0	8,1	4,0	26,2	3,2	1.000/100
	3,5	GF-M3.5	6,6	8,0	8,1	4,0	26,2	3,7	1.000/100
	4	GF-M4	6,6	9,0	8,1	4,5	26,7	4,3	1.000/100
	5	GF-M5	6,6	9,0	8,1	4,5	26,7	5,3	1.000/100
	6	GF-M6	6,6	11,0	11,1	5,5	30,7	6,4	1.000/100
	6	GF-M6/1	6,6	11,0	8,1	5,5	27,7	6,4	1.000/100
	7	GF-M7	6,6	11,0	11,1	5,5	30,7	7,2	1.000/100
	8	GF-M8	6,6	13,6	12,1	6,8	33,0	8,4	800/100
	8	GF-M8/1*♦	6,6	11,0	8,1	5,5	27,7	8,4	1.000/100
	10	GF-M10	6,6	13,6	12,1	6,8	33,0	10,5	800/100
	10	GF-M10/1	6,6	15,5	13,8	7,7	35,7	10,5	800/100
	12	GF-M12	6,6	19,0	15,1	9,5	38,7	13,0	500/100
	14	GF-M14	6,6	21,0	16,1	10,5	40,7	15,0	500/100
	16	GF-M16	6,6	24,0	17,1	12,0	43,2	17,0	500/100

Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag
0,25÷1,5 (22÷16)	3	RF-U3	4,0	5,5	5,5	4,0	19,5	3,2	3.000/100
	3,5	RF-U3.5	4,0	6,0	6,5	3,8	20,3	3,7	3.000/100
	3,5	RF-U3.5/1	4,0	7,2	6,5	3,8	20,3	3,7	3.000/100
	3,5	RF-U3.5/2♦	4,0	6,4	6,5	3,8	20,3	3,7	3.000/100
	4	RF-U4	4,0	6,5	7,5	3,7	21,2	4,3	3.000/100
	4	RF-U4/1	4,0	8,5	7,5	3,7	21,2	4,3	3.000/100
	4	RF-U4/2	4,0	7,5	7,5	3,7	21,2	4,3	3.000/100
	5	RF-U5	4,0	8,5	7,5	3,7	21,2	5,3	2.500/100
	5	RF-U5/1*♦	4,0	9,4	7,5	3,7	21,2	5,3	3.000/100
	6	RF-U6	4,0	9,4	8,1	4,7	22,8	6,4	2.000/100
	6	RF-U6/1	4,0	12,0	9,2	7,1	26,3	6,4	2.000/100
	8	RF-U8	4,0	14,0	10,0	6,3	26,3	8,4	2.000/100
	10	RF-U10	4,0	17,5	13,0	7,7	30,8	10,5	1.500/100
	12	RF-U12	4,0	20,0	15,5	9,0	34,5	13,0	1.500/100
1,5÷2,5 (16÷14)	3	BF-U3	4,9	5,5	5,5	4,0	19,5	3,2	2.500/100
	3,5	BF-U3.5	4,9	6,4	6,5	3,8	20,3	3,7	2.500/100
	3,5	BF-U3.5/1*	4,9	7,2	6,5	3,8	20,3	3,7	3.000/100
	4	BF-U4	4,9	6,5	7,5	3,7	21,2	4,3	2.500/100
	4	BF-U4/1	4,9	8,5	7,5	3,7	21,2	4,3	2.000/100
	4	BF-U4/2	4,9	7,5	7,5	3,7	21,2	4,3	2.000/100
	5	BF-U5	4,9	8,5	7,5	3,7	21,2	5,3	2.000/100
	5	BF-U5/2♦	4,9	12,0	11,3	5,0	26,3	5,3	1.500/100
	6	BF-U6	4,9	9,4	8,1	4,7	22,8	6,4	2.000/100
	6	BF-U6/1	4,9	12,0	9,2	7,1	26,3	6,4	2.000/100
	8	BF-U8	4,9	14,0	10,0	6,3	26,3	8,4	1.500/100
	10	BF-U10	4,9	17,5	13,0	7,7	30,8	10,5	1.000/100
	12	BF-U12	4,9	20,0	15,5	9,0	34,5	13,0	1.000/100
4÷6 (12÷10)	3,5	GF-U3.5	6,6	7,5	8,5	3,9	26,5	3,7	1.000/100
	4	GF-U4	6,6	7,5	8,0	4,4	26,5	4,3	1.000/100
	5	GF-U5	6,6	9,5	8,0	4,4	26,5	5,3	1.000/100
	6	GF-U6	6,6	10,0	11,0	5,5	30,6	6,4	1.000/100
	8	GF-U8	6,6	13,5	12,0	8,0	34,1	8,4	800/100
	10	GF-U10	6,6	15,5	13,0	8,0	35,1	10,5	1.000/100
	10	GF-U10/1	6,6	17,5	13,8	7,7	35,7	10,5	1.000/100
	12	GF-U12	6,6	21,0	15,1	9,5	38,7	13,0	500/100
	14	GF-U14	6,6	23,0	16,1	10,5	40,7	15,0	500/100
	16	GF-U16	6,6	26,0	17,1	11,5	42,7	17,0	500/100

♦Not UL approved *Made to order

CEMBRE

RF-F BF-F GF-F



PC | Brass | EASY ENTRY | 3µm TIN PLATED | -20°C +115°C | RADIAL

* Material: Polycarbonate type PC10500AC certified EN45545-2

FEMALE DISCONNECT TERMINALS

for Copper conductors

Recommended crimping tools are shown on pages 170 to 209, 296.

EN 45545-2 | HF HALOGEN FREE | c UL us File no. E212000

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-F305	2,8 x 0,5	3.000/100
	RF-F308♦	2,8 x 0,8	3.000/100
	RF-F405	4,8 x 0,5	2.500/100
	RF-F408	4,8 x 0,8	2.500/100
	RF-F608	6,35 x 0,8	2.500/100
1,5÷2,5 (16÷14)	BF-F405	4,8 x 0,5	2.500/100
	BF-F408	4,8 x 0,8	2.500/100
	BF-F608	6,35 x 0,8	1.500/100
4÷6 (12÷10)	GF-F608	6,35 x 0,8	1.000/100

Polycarbonate* fully insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-F305P	2,8 x 0,5	2.000/100
	RF-F308P♦	2,8 x 0,8	2.000/100
	RF-F405P	4,8 x 0,5	1.500/100
	RF-F408P	4,8 x 0,8	1.500/100
	RF-F608P	6,35 x 0,8	1.000/100
1,5÷2,5 (16÷14)	BF-F405P	4,8 x 0,5	1.500/100
	BF-F408P	4,8 x 0,8	1.500/100
	BF-F608P	6,35 x 0,8	1.000/100
4÷6 (12÷10)	GF-F608P	6,35 x 0,8	800/100

RF-M BF-M GF-M



PC | Brass | EASY ENTRY | 3µm TIN PLATED | -20°C +115°C | RADIAL

* Material: Polycarbonate type PC10500AC certified EN45545-2

MALE DISCONNECT TERMINALS

for Copper conductors

Recommended crimping tools are shown on pages 170 to 209, 296.

EN 45545-2 | HF HALOGEN FREE | c UL us File no. E212000

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-M608	6,35 x 0,8	3.000/100
1,5÷2,5 (16÷14)	BF-M608	6,35 x 0,8	2.000/100
4÷6 (12÷10)	GF-M608	6,35 x 0,8	1.000/100

Polycarbonate* fully insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-M608P	6,35 x 0,8	1.000/100
1,5÷2,5 (16÷14)	BF-M608P	6,35 x 0,8	800/100

RF-FM BF-FM RF-B BF-B



PC | Brass | EASY ENTRY | 3µm TIN PLATED | -20°C +115°C | RADIAL

* Material: Polycarbonate type PC10500AC certified EN45545-2

MALE/FEMALE

for Copper conductors

Recommended crimping tools are shown on pages 170 to 209, 296.

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-FM608	6,35 x 0,8	1.000/100
1,5÷2,5 (16÷14)	BF-FM608	6,35 x 0,8	1.000/100

BULLET AND SOCKET

for Copper conductors

EN 45545-2 | HF HALOGEN FREE | c UL us File no. E212000

Polycarbonate* insulated terminals partially reinforced with Copper sleeve

Conductor Size sqmm (AWG)	Type	Ø mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RF-BM4♦	4,0	2.500/100
	RF-BF4♦	3,95	800/100
1,5÷2,5 (16÷14)	BF-BM5♦	5,0	2.000/100
	BF-BF5♦	4,95	800/100

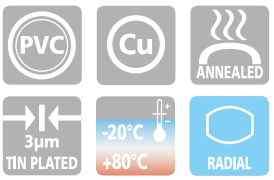
♦Not UL approved

BUTT AND PARALLEL CONNECTORS

for Copper conductors

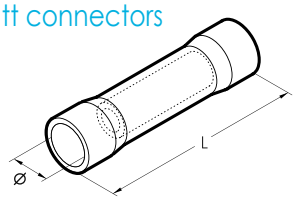


PL



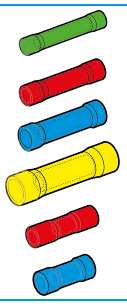
PVC insulated

butt connectors



parallel connectors

Recommended crimping tools are shown on pages 170 to 209, 296.

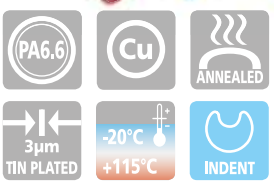
Conductor Size sqmm (AWG)		Type	Ø mm	L mm	Quantity Box/Bag
0,2÷0,5 (24÷20)		PL01-M♦	3,0	25,0	3.000/100
0,25÷1,5 (22÷16)		PL03-M	4,0	25,0	1.000/100
1,5÷2,5 (16÷14)		PL06-M	5,0	25,0	1.500/100
4÷6 (12÷10)		PL1-M	6,5	32,0	500/100
0,25÷1,5 (22÷16)		PL03-P♦	4,0	20,0	3.000/100
1,5÷2,5 (16÷14)		PL06-P♦	5,0	16,0	2.000/100

BUTT CONNECTORS

for Copper conductors

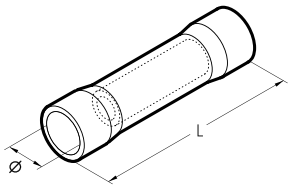


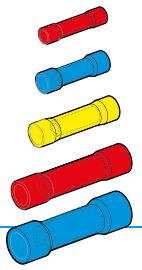
NL-M



Polyamide PA6.6 insulated

Recommended crimping tools are shown on pages 170 to 209, 296.



Conductor Size sqmm (AWG)		Type	Ø mm	L mm	Quantity Box/Bag
0,25÷1,5 (22÷16)		NL03-M	4,0	25,0	1.000/100
1,5÷2,5 (16÷14)		NL06-M	5,4	25,5	1.500/100
4÷6 (12÷10)		NL1-M	7,6	32,0	500/100
10 (8÷7)		NL2-M	8,0	43,0	500/100
16 (6÷5)		NL3-M	9,2	44,0	400/100

HF HALOGEN FREE

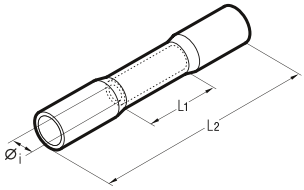


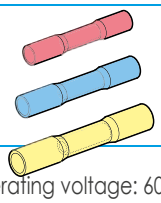
WL-M



PE HD insulated, heat shrinkable

Recommended crimping tools are shown on pages 172, 184-185.



Conductor Size sqmm (AWG)		Type	Ø mm	L 1 mm	L 2 mm	Quantity Box/Bag
0,5÷1,5 (20÷16)		WL03-M	1,7	15,0	36,0	1.500/100
1,5÷2,5 (16÷14)		WL06-M	2,3	15,0	36,0	1.000/100
4÷6 (12÷10)		WL1-M	3,5	15,0	41,0	500/100

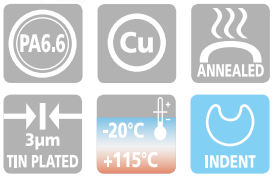
- Max operating voltage: 600 V
- Shrink temperature: 150 °C
- Protection: IP68

CLOSE END CONNECTORS

for Copper conductors

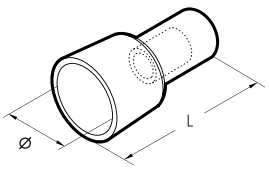


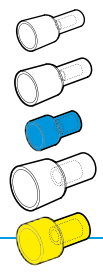
NL-P



Polyamide PA6.6 insulated

Recommended crimping tools are shown on pages 170 to 209, 296.



Conductor Size sqmm (AWG)		Type	Ø mm	L mm	Quantity Box/Bag
0,25÷1,5 (22÷16)		NL03-P	7,9	21,0	1.000/100
1,5÷2,5 (16÷14)		NL06-P	7,9	19,9	1.000/100
		NL06-PB	6,5	13,6	1.500/100
4÷6 (12÷10)		NL1-P	10,5	21,5	500/100
		NL1-PG	9,0	17,8	1.000/100

♦Not UL approved

CEMBRE

VP RP BP GP

HALOGEN FREE INSULATED TERMINALS

P range funnel entry - for Copper conductors



PC | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +115°C | RADIAL

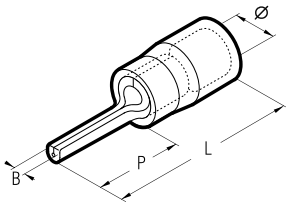
The "P" range of terminals has been designed, to meet the increasing demands for improved safety and reliability of electrical connectors.
The Polycarbonate insulation type PC10500AC certified EN45545-2, is a Halogen free, self extinguishing thermoplastic material class V0 (UL 94). The unique funnel shaped entry of the insulation sleeve, guarantees total insertion of the conductor strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection.

The operating temperature range is – 20 to + 115°C (Surge + 130°C).

Recommended crimping tools are shown on pages 170 to 209, 296.

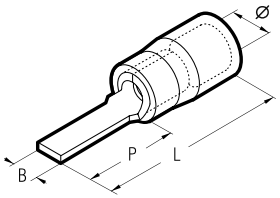
EN 45545-2 | HF HALOGEN FREE | c UL us File no. E125401

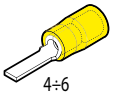
pin terminals



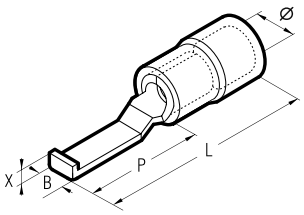
Conductor Size sqmm [AWG]	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,2÷0,5 (24÷20)	VP-P10	3,0	1,0	9,8	20,2	4.000/100
 0,25÷1,5 (22÷16)	RP-P8	4,0	1,6	7,8	17,9	3.000/100
	RP-P10	4,0	1,6	9,8	19,9	3.000/100
	RP-P12	4,0	1,6	12,0	22,1	3.000/100
 1,5÷2,5 (16÷14)	BP-P8	4,9	1,6	7,8	17,9	3.000/100
	BP-P10	4,9	1,6	9,8	19,9	3.000/100
	BP-P12	4,9	1,6	11,8	21,9	2.500/100
 4÷6 (12÷10)	GP-P10	6,6	2,2	10,4	24,5	1.000/100
	GP-P12	6,6	2,2	12,6	26,7	1.000/100
	GP-P14	6,6	2,2	14,6	28,7	1.000/100

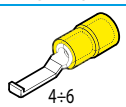
blade terminals



Conductor Size sqmm [AWG]	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,2÷0,5 (24÷20)	VP-PP12/19	3,0	1,9	12,4	22,4	4.000/100
 0,25÷1,5 (22÷16)	RP-PP12	4,0	3,0	12,8	22,9	3.000/100
	RP-PP12/1	4,0	3,0	11,3	21,4	3.000/100
	RP-PP12/19	4,0	1,9	13,2	23,3	3.000/100
	RP-PP12/23	4,0	2,3	13,2	23,3	2.500/100
	RP-PP14	4,0	3,0	14,8	24,9	2.500/100
	RP-PP16/23	4,0	2,3	17,2	27,3	2.500/100
 1,5÷2,5 [16÷14]	BP-PP12	4,9	3,5	12,8	22,9	2.500/100
	BP-PP12/25	4,9	2,5	13,3	23,4	2.000/100
	BP-PP12/29	4,9	2,9	13,3	23,4	2.500/100
	BP-PP16/25	4,9	2,5	17,2	27,3	2.500/100
 4÷6 (12÷10)	GP-PP12	6,6	4,0	13,3	27,4	1.000/100
	GP-PP17	6,6	2,9	19,1	33,2	1.000/100

hooked blade terminals



Conductor Size sqmm [AWG]	Type	Dimensions mm Ø	B	P	L	X	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RP-PPL30	4,0	3,0	17,5	28,3	1,7	3.000/100
	RP-PPL46	4,0	4,6	17,5	28,3	1,7	3.000/100
 1,5÷2,5 [16÷14]	BP-PPL30	4,9	3,0	17,5	28,3	1,7	2.500/100
	BP-PPL46	4,9	4,6	17,5	28,8	1,7	2.500/100
 4÷6 (12÷10)	GP-PPL46	6,6	4,6	17,5	32,6	1,9	1.000/100

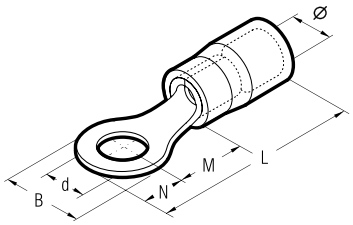
*Not UL approved

HALOGEN FREE INSULATED TERMINALS

P range funnel entry - for Copper conductors

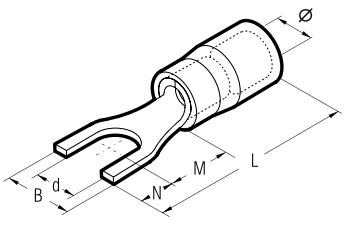
VP RP BP GP

ring terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag
0,2÷0,5 (24÷20)	2	VP-M2*	3,0	5,6	4,5	2,8	17,5	2,2	4.000/100
	3	VP-M3	3,0	5,6	4,5	2,8	17,5	3,2	4.000/100
	3,5	VP-M3.5	3,0	5,6	4,5	2,8	17,5	3,7	4.000/100
	4	VP-M4	3,0	7,0	6,5	3,5	20,2	4,3	4.000/100
	5	VP-M5	3,0	7,8	7,1	3,9	21,2	5,3	4.000/100
	6	VP-M6*	3,0	9,4	8,1	4,7	23,0	6,4	4.000/100
0,25÷1,5 (22÷16)	2	RP-M2*	4,0	5,6	4,5	2,8	17,4	2,2	3.000/100
	3	RP-M3	4,0	5,6	4,5	2,8	17,4	3,2	3.000/100
	3,5	RP-M3.5	4,0	5,6	4,5	2,8	17,4	3,7	3.000/100
	3,5	RP-M3.5/1	4,0	6,2	7,1	3,1	20,2	3,7	3.000/100
	4	RP-M4	4,0	7,0	6,5	3,5	20,1	4,3	3.000/100
	4	RP-M4/3	4,0	7,8	7,1	3,9	21,1	4,3	3.000/100
	5	RP-M5	4,0	7,8	7,1	3,9	21,1	5,3	2.500/100
	6	RP-M6	4,0	9,4	8,1	4,7	22,9	6,4	2.500/100
	6	RP-M6/1	4,0	12,0	10,3	6,0	26,4	6,4	2.000/100
	7	RP-M7	4,0	9,4	8,1	4,7	22,9	7,2	2.500/100
	8	RP-M8	4,0	12,0	10,3	6,0	26,4	8,4	2.500/100
	10	RP-M10	4,0	15,5	13,0	7,7	30,9	10,5	1.500/100
	12	RP-M12	4,0	18,0	15,5	9,0	34,6	13,0	1.500/100
1,5÷2,5 (16÷14)	2	BP-M2*	4,9	5,6	5,0	2,8	17,9	2,2	2.500/100
	3	BP-M3	4,9	5,6	5,0	2,8	17,9	3,2	2.500/100
	3,5	BP-M3.5	4,9	5,6	5,0	2,8	17,9	3,7	3.000/100
	3,5	BP-M3.5/1	4,9	6,2	6,5	3,1	19,7	3,7	2.500/100
	4	BP-M4	4,9	8,0	6,5	4,0	20,6	4,3	2.500/100
	5	BP-M5	4,9	8,0	7,5	4,0	21,6	5,3	2.000/100
	6	BP-M6	4,9	9,4	8,6	4,7	23,4	6,4	2.000/100
	6	BP-M6/1	4,9	12,0	10,3	6,0	26,4	6,4	2.000/100
	6	BP-M6/2*	4,9	8,4	5,4	4,2	19,7	6,4	2.500/100
	7	BP-M7	4,9	10,0	7,8	5,0	22,9	7,2	2.500/100
	8	BP-M8	4,9	12,0	10,3	6,0	26,4	8,4	1.500/100
	10	BP-M10	4,9	15,5	13,0	7,7	30,9	10,5	1.500/100
	12	BP-M12	4,9	18,0	15,5	9,0	34,6	13,0	1.000/100
4÷6 (12÷10)	3	GP-M3	6,6	8,0	8,1	4,0	26,2	3,2	1.000/100
	3,5	GP-M3.5	6,6	8,0	8,1	4,0	26,2	3,7	1.500/100
	4	GP-M4	6,6	9,0	8,1	4,5	26,7	4,3	1.000/100
	5	GP-M5	6,6	9,0	8,1	4,5	26,7	5,3	1.000/100
	6	GP-M6	6,6	11,0	11,1	5,5	30,7	6,4	1.000/100
	6	GP-M6/1	6,6	11,0	8,1	5,5	27,7	6,4	1.000/100
	7	GP-M7	6,6	11,0	11,1	5,5	30,7	7,2	1.000/100
	8	GP-M8	6,6	13,6	12,1	6,8	33,0	8,4	800/100
	8	GP-M8/1*	6,6	11,0	8,1	5,5	27,7	8,4	1.000/100
	10	GP-M10	6,6	13,6	12,1	6,8	33,0	10,5	1.000/100
	10	GP-M10/1	6,6	15,5	13,8	7,7	35,7	10,5	1.000/100
	12	GP-M12	6,6	19,0	15,1	9,5	38,7	13,0	500/100
	14	GP-M14	6,6	21,0	16,1	10,5	40,7	15,0	500/100
	16	GP-M16	6,6	24,0	17,1	12,0	43,2	17,0	500/100

fork/spade terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag
0,2÷0,5 (24÷20)	3	VP-U3	3,0	5,5	5,5	4,0	18,7	3,2	4.000/100
	3,5	VP-U3.5	3,0	6,0	6,5	3,8	19,5	3,7	4.000/100
	4	VP-U4	3,0	6,5	7,5	3,7	20,4	4,3	4.000/100
0,25÷1,5 (22÷16)	3	RP-U3	4,0	5,5	5,5	4,0	19,6	3,2	3.000/100
	3,5	RP-U3.5	4,0	6,0	6,5	3,8	20,4	3,7	3.000/100
	3,5	RP-U3.5/2	4,0	6,4	6,5	3,8	20,4	3,7	3.000/100
	4	RP-U4	4,0	6,5	7,5	3,7	21,3	4,3	3.000/100
	4	RP-U4/1	4,0	8,5	7,5	3,7	21,3	4,3	3.000/100
	4	RP-U4/2	4,0	7,5	7,5	3,7	21,3	4,3	3.500/100
	5	RP-U5	4,0	8,5	7,5	3,7	21,3	5,3	3.000/100
	5	RP-U5/1*	4,0	9,4	7,5	3,7	21,3	5,3	3.000/100
	6	RP-U6	4,0	9,4	8,1	4,7	22,9	6,4	2.000/100
	6	RP-U6/1	4,0	12,0	9,2	7,1	26,4	6,4	2.000/100
	8	RP-U8	4,0	14,0	10,0	6,3	26,4	8,4	2.000/100
	10	RP-U10	4,0	17,5	13,0	7,7	30,9	10,5	1.500/100
	12	RP-U12	4,0	20,0	15,5	9,0	34,6	13,0	1.500/100
1,5÷2,5 (16÷14)	3	BP-U3	4,9	5,5	5,5	4,0	19,6	3,2	2.500/100
	3,5	BP-U3.5	4,9	6,4	6,5	3,8	20,4	3,7	2.500/100
	3,5	BP-U3.5/1*	4,9	7,2	6,5	3,8	20,4	3,7	2.500/100
	4	BP-U4	4,9	6,5	7,5	3,7	21,3	4,3	2.500/100
	4	BP-U4/1	4,9	8,5	7,5	3,7	21,3	4,3	3.000/100
	4	BP-U4/2	4,9	7,5	7,5	3,7	21,3	4,3	2.000/100
	5	BP-U5	4,9	8,5	7,5	3,7	21,3	5,3	2.000/100
	6	BP-U6	4,9	9,4	8,1	4,7	22,9	6,4	2.000/100
	6	BP-U6/1	4,9	12,0	9,2	7,1	26,4	6,4	2.000/100
	8	BP-U8	4,9	14,0	10,0	6,3	26,4	8,4	1.500/100
	10	BP-U10	4,9	17,5	13,0	7,7	30,9	10,5	1.000/100
	12	BP-U12	4,9	20	15,5	9,0	34,6	13,0	1.500/100
4÷6 (12÷10)	3,5	GP-U3.5	6,6	7,5	8,5	3,9	26,5	3,7	1.000/100
	4	GP-U4	6,6	7,5	8,0	4,4	26,5	4,3	1.000/100
	5	GP-U5	6,6	9,5	8,0	4,4	26,5	5,3	1.000/100
	6	GP-U6	6,6	10,0	11,0	5,5	30,6	6,4	1.000/100
	8	GP-U8	6,6	13,5	12,0	8,0	34,1	8,4	1.000/100
	10	GP-U10	6,6	15,5	13,0	8,0	35,1	10,5	1.000/100
	10	GP-U10/1	6,6	17,5	13,8	7,7	35,7	10,5	1.000/100
	12	GP-U12	6,6	21,0	15,1	9,5	38,7	13,0	500/100
	14	GP-U14	6,6	23,0	16,1	10,5	40,7	15,0	500/100
	16	GP-U16	6,6	26,0	17,1	11,5	42,7	17,0	500/100

*Made to order

CEMBRE

CRP CBP CGP

INSULATED CHAIN TERMINALS

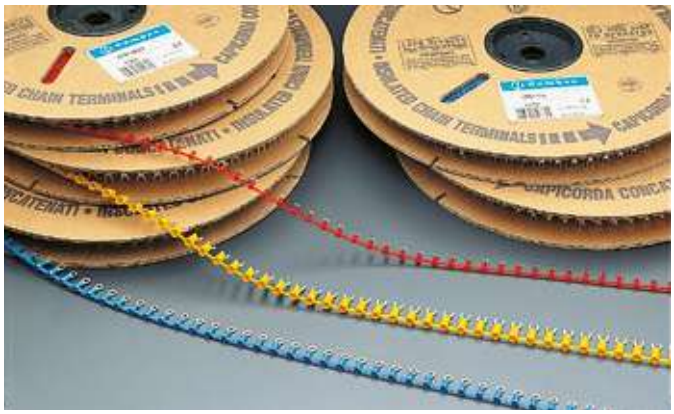
CP range with easy entry - for Copper conductors



PC | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +115°C | RADIAL

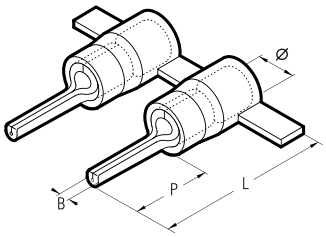
EN 45545-2 | HF HALOGEN FREE

The "CP" range of terminals has been designed to meet the increasing demands for improved safety and reliability of electrical connectors. Developed for use with production equipment, to give a quick and reliable crimped joint, the Polycarbonate insulation type PC10500AC certified EN45545-2, is a Halogen free, self extinguishing thermoplastic material class V0 (UL 94).
The unique funnel shaped entry of the insulation sleeve guarantees strands into the terminal barrel, creating a secure and reliable, electrical and mechanical connection.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).



pin terminals

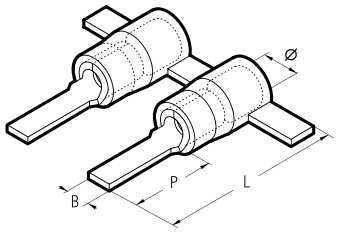
c UL us File no. E125401



Conductor Size sqmm (AWG))	Type	Dimensions mm Ø	B	P	L	Quantity
0,25÷1,5 (22÷16)	CRP-P8	4,0	1,6	8,0	17,9	2.000
	CRP-P10	4,0	1,6	10,0	19,9	2.000
	CRP-P12	4,0	1,6	12,0	22,1	2.000
1,5÷2,5 (16÷14)	CBP-P8	4,9	1,6	8,0	17,9	1.750
	CBP-P10	4,9	1,6	10,0	19,9	1.750
	CBP-P12	4,9	1,6	12,0	21,9	1.750
4÷6 (12÷10)	CGP-P10	6,6	2,2	10,0	24,5	1.250
	CGP-P12	6,6	2,2	12,0	26,7	1.250
	CGP-P14	6,6	2,2	14,0	28,7	1.250

blade terminals

c UL us File no. E125401

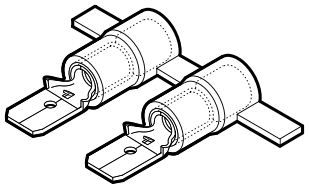


Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	Quantity
0,25÷1,5 (22÷16)	CRP-PP12	4,0	3,0	12,8	22,9	2.000
	CRP-PP12/1*	4,0	3,0	11,3	21,4	2.000
	CRP-PP12/23*	4,0	2,3	13,2	23,3	2.000
	CRP-PP14	4,0	3,0	14,8	24,9	2.000
1,5÷2,5 (16÷14)	CBP-PP12	4,9	3,5	12,8	22,9	1.750
	CBP-PP12/25*	4,9	2,5	13,3	23,4	1.750
4÷6 (12÷10)	CGP-PP12	6,6	4,0	13,3	27,4	1.250
	CGP-PP17*	6,6	2,9	19,1	33,2	1.250

male disconnect terminals

c UL us File no. E212000

Brass

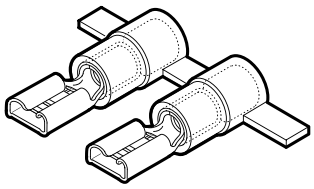


Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity
0,25÷1,5 (22÷16)	CRP-M608	6,35 x 0,8	2.000
1,5÷2,5 (16÷14)	CBP-M608	6,35 x 0,8	1.750
4÷6 (12÷10)	CGP-M608	6,35 x 0,8	1.250

female disconnect terminals

c UL us File no. E212000

Brass

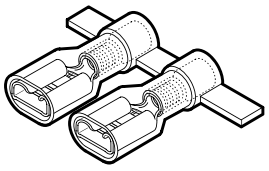


Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity
0,25÷1,5 (22÷16)	CRP-F305	2,8 x 0,5	2.000
	CRP-F308	2,8 x 0,8	2.000
	CRP-F405	4,8 x 0,5	2.000
	CRP-F408	4,8 x 0,8	2.000
	CRP-F608	6,35 x 0,8	2.000
1,5÷2,5 (16÷14)	CBP-F405	4,8 x 0,5	1.750
	CBP-F408	4,8 x 0,8	1.750
	CBP-F608	6,35 x 0,8	1.750
4÷6 (12÷10)	CGP-F608	6,35 x 0,8	1.250

female disconnect terminals fully insulated

c UL us File no. E212000

Brass



Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity
0,25÷1,5 (22÷16)	CRP-F405P♦	4,8 x 0,5	2.000
	CRP-F408P♦	4,8 x 0,8	2.000
	CRP-F608P	6,35 x 0,8	1.500
1,5÷2,5 (16÷14)	CBP-F408P♦	4,8 x 0,8	1.500
	CBP-F608P	6,35 x 0,8	1.500
4÷6 (12÷10)	CGP-F608P	6,35 x 0,8	1.250

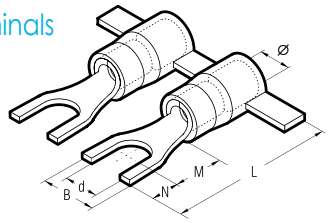
♦Not UL approved **Made to order*

INSULATED CHAIN TERMINALS

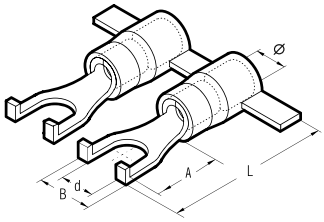
CP range with easy entry - for Copper conductors

CRP CBP CGP

fork/spade terminals

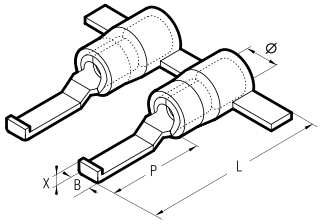


Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity
			Ø	B	M	N	L	d	
0,25÷1,5 (22÷16)	3	CRP-U3	4,0	5,5	5,5	4,0	19,6	3,2	2.000
	3,5	CRP-U3.5	4,0	6,0	6,5	3,8	20,4	3,7	2.000
	3,5	CRP-U3.5/2*	4,0	6,4	6,5	3,8	20,4	3,7	2.000
	4	CRP-U4	4,0	6,5	7,5	3,7	21,3	4,3	2.000
	4	CRP-U4/1*	4,0	8,5	7,5	3,7	21,3	4,3	2.000
	4	CRP-U4/2*	4,0	7,5	7,5	3,7	21,3	4,3	2.000
	5	CRP-U5	4,0	8,5	7,5	3,7	21,3	5,3	2.000
	6	CRP-U6	4,0	9,4	8,1	4,7	22,9	6,4	2.000
	6	CRP-U6/1*	4,0	12,0	9,2	7,1	26,4	6,4	2.000
	8	CRP-U8*	4,0	14,0	10,0	6,3	26,4	8,4	2.000
1,5÷2,5 (16÷14)	3	CBP-U3	4,9	5,5	5,5	4,0	19,6	3,2	1.750
	3,5	CBP-U3.5	4,9	6,4	6,5	3,8	20,4	3,7	1.750
	4	CBP-U4	4,9	6,5	7,5	3,7	21,3	4,3	1.750
	4	CBP-U4/1*	4,9	8,5	7,5	3,7	21,3	4,3	1.750
	4	CBP-U4/2*	4,9	7,5	7,5	3,7	21,3	4,3	1.750
	5	CBP-U5	4,9	8,5	7,5	3,7	21,3	5,3	1.750
	6	CBP-U6	4,9	9,4	8,1	4,7	22,9	6,4	1.750
4÷6 (12÷10)	3,5	CGP-U3.5*	6,6	7,5	8,5	3,9	26,5	3,7	1.250
	4	CGP-U4*	6,6	7,5	8,0	4,4	26,5	4,3	1.250
	5	CGP-U5	6,6	9,5	8,0	4,4	26,5	5,3	1.250
	6	CGP-U6	6,6	10,0	11,0	5,5	30,6	6,4	1.250



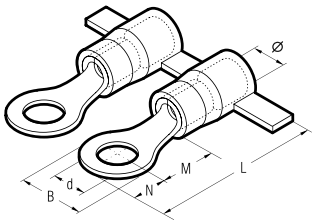
Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm					Quantity
			Ø	B	A	L	d	
1,5÷2,5 (16÷14)	4	CBP-U 4/3L♦	4,9	6,5	9,5	14,5	4,3	1.750

hooked blade terminals



Cond. Size sqmm (AWG)	Type	Dimensions mm					Quantity
		Ø	B	P	L	X	
0,25÷1,5 (22÷16)	CRP-PPL30♦	4,0	3,0	17,5	28,8	1,7	2.000
1,5÷2,5 (16÷14)	CBP-PPL30♦	4,9	3,0	17,5	28,8	1,7	1.750

ring terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity
			Ø	B	M	N	L	d	
0,25÷1,5 (22÷16)	3	CRP-M3	4,0	5,6	4,5	2,8	17,4	3,2	2.000
	3,5	CRP-M3.5*	4,0	5,6	4,5	2,8	17,4	3,7	2.000
	3,5	CRP-M3.5/1	4,0	6,2	7,1	3,1	20,2	3,7	2.000
	4	CRP-M4	4,0	7,0	6,5	3,5	20,1	4,3	2.000
	4	CRP-M4/3*	4,0	7,8	7,1	3,9	21,1	4,3	2.000
	5	CRP-M5	4,0	7,8	7,1	3,9	21,1	5,3	2.000
	6	CRP-M6	4,0	9,4	8,1	4,7	22,9	6,4	2.000
	6	CRP-M6/1*	4,0	12,0	10,3	6,0	26,4	6,4	2.000
	7	CRP-M7	4,0	9,4	8,1	4,7	22,9	7,2	2.000
	8	CRP-M8	4,0	12,0	10,3	6,0	26,4	8,4	2.000
1,5÷2,5 (16÷14)	3	CBP-M3	4,9	5,6	5,0	2,8	17,9	3,2	1.750
	3,5	CBP-M3.5	4,9	5,6	5,0	2,8	17,9	3,7	1.750
	3,5	CBP-M3.5/1*	4,9	6,2	6,5	3,1	19,6	3,7	1.750
	4	CBP-M4	4,9	8,0	6,5	4,0	20,6	4,3	1.750
	5	CBP-M5	4,9	8,0	7,5	4,0	21,6	5,3	1.750
	6	CBP-M6	4,9	9,4	8,6	4,7	23,4	6,4	1.750
	6	CBP-M6/1*	4,9	12,0	10,3	6,0	26,4	6,4	1.750
	7	CBP-M7	4,9	10,0	7,8	5,0	22,9	7,2	1.750
	8	CBP-M8	4,9	12,0	10,3	6,0	26,4	8,4	1.750
4÷6 (12÷10)	3	CGP-M3	6,6	8,0	8,1	4,0	26,2	3,2	1.250
	3,5	CGP-M3.5	6,6	8,0	8,1	4,0	26,2	3,7	1.250
	4	CGP-M4	6,6	9,0	8,1	4,5	26,7	4,3	1.250
	5	CGP-M5	6,6	9,0	8,1	4,5	26,7	5,3	1.250
	6	CGP-M6	6,6	11,0	11,1	5,5	30,7	6,4	1.250
	6	CGP-M6/1*	6,6	11,0	8,1	5,5	27,7	6,4	1.250
	7	CGP-M7	6,6	11,0	11,1	5,5	30,7	7,2	1.000
	8	CGP-M8	6,6	13,6	12,1	6,8	33,0	8,4	1.250
	8	CGP-M8/1*	6,6	11,0	8,1	5,5	27,7	8,4	1.250
	10	CGP-M10	6,6	13,6	12,1	6,8	33,0	10,5	1.250



Interchangeable application heads are available for crimping these terminals with the bench press ELB-3 (see page 212).

♦Not UL approved *Made to order

CEMBRE

RKY BKY GKY

REINFORCED PA 6.6 INSULATED TERMINALS

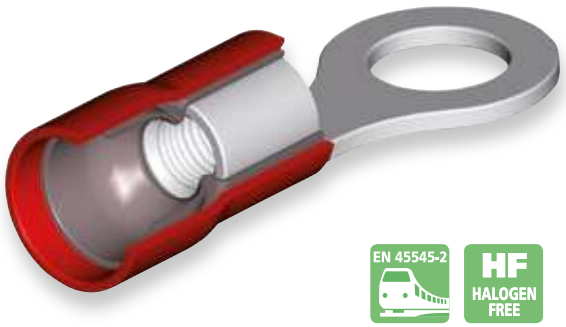
KY range - for Copper conductors



PA6.6 | Cu-ETP | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +105°C | RADIAL

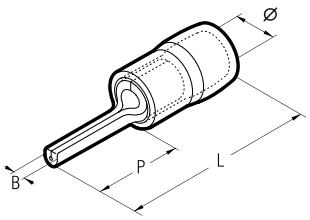
'KY' type terminals are designed to offer improved mechanical and electrical integrity under heavy-duty application.
This is achieved via a Copper sleeve located between the Copper barrel and Polyamide insulation (type PA10180 certified EN45545-2) of the terminal. Then, during crimping, the insulation of the conductor is integrated into the crimp due to the Copper sleeve being deformed around it to maintain the level of 'grip' required in applications subject to continuous mechanical vibrations (e.g: mobile plant, vehicles, moving components).

The operating temperature range is – 20 to + 105°C (Surge + 110°C).
Recommended crimping tools are shown on pages 170 to 209, 296.



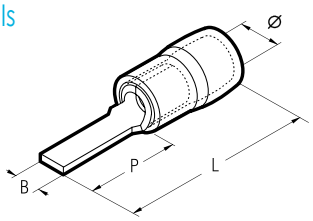
EN 45545-2 | HF HALOGEN FREE

pin terminals



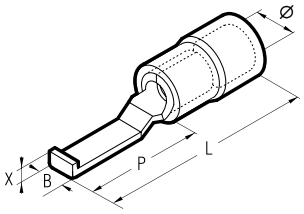
Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RKY-P8	4,5	1,9	9,0	19,8	3.000/100
	RKY-P10	4,5	1,9	10,0	20,8	3.500/100
	RKY-P12	4,5	1,9	12,0	22,8	3.000/100
 1,5÷2,5 (16÷14)	BKY-P8	5,2	1,9	9,0	19,8	3.000/100
	BKY-P10	5,2	1,9	10,0	20,8	3.000/100
	BKY-P12	5,2	1,9	12,0	22,8	3.000/100
 4÷6 (12÷10)	GKY-P14	7,0	2,8	14,0	27,0	1.000/100

blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RKY-PP12	4,5	3,0	13,0	23,8	3.000/100
	RKY-PP12/19	4,5	2,0	18,0	28,8	3.000/100
	RKY-PP16/23	4,5	2,2	18,0	28,8	2.500/100
 1,5÷2,5 (16÷14)	BKY-PP12	5,2	3,0	13,0	23,8	2.500/100
	BKY-PP12/25	5,2	2,4	13,0	23,8	2.000/100
	BKY-PP16/23	5,2	2,2	18,0	28,8	2.500/100
 4÷6 (12÷10)	GKY-PP12	7,0	4,0	14,0	27,0	1.000/100
	GKY-PP17	7,0	2,0	18,0	31,0	1.000/100

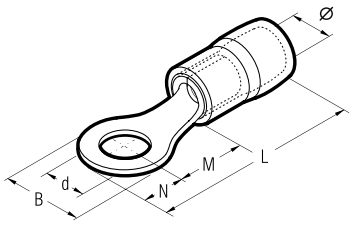
hooked blade terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm Ø	B	P	L	X	Quantity Box/Bag
 0,25÷1,5 (22÷16)	RKY-PPL30	4,5	3,0	16,8	28,2	2,1	3.000/100
	RKY-PPL46	4,5	4,6	16,8	28,2	2,1	3.000/100
 1,5÷2,5 (16÷14)	BKY-PPL30	5,2	3,0	16,8	28,2	2,1	2.500/100
	BKY-PPL46	5,2	4,6	16,8	28,2	2,1	2.500/100
 4÷6 (12÷10)	GKY-PPL46	7,0	4,6	17,2	30,2	2,4	1.000/100

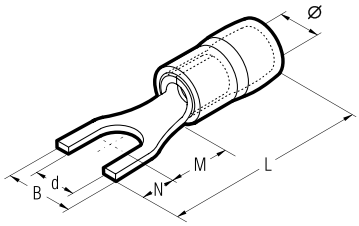
Consult CEMBRE for a wider range of pin and blade dimensions.

ring terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag
0,25÷1,5 (22÷16)	3	RKY-M3	4,5	5,5	5,0	2,5	18,5	3,2	3.000/100
	3,5	RKY-M3.5	4,5	5,5	5,0	2,5	18,5	3,7	3.000/100
	3,5	RKY-M3.5/1	4,5	6,6	6,3	3,1	20,4	3,7	3.000/100
	4	RKY-M4	4,5	6,6	6,3	3,1	20,4	4,3	3.000/100
	5	RKY-M5	4,5	8,0	7,0	3,8	21,8	5,3	2.500/100
	6	RKY-M6/1	4,5	11,6	11,0	5,8	27,8	6,4	2.000/100
	8	RKY-M8	4,5	11,6	11,0	5,8	27,8	8,4	2.500/100
	10	RKY-M10	4,5	13,6	13,9	6,6	31,5	10,5	1.500/100
	12	RKY-M12	4,5	19,6	16,0	9,4	36,4	13,0	1.500/100
1,5÷2,5 (16÷14)	3	BKY-M3	5,2	6,6	4,8	3,0	18,8	3,2	2.500/100
	3,5	BKY-M3.5	5,2	6,6	4,8	3,0	18,8	3,7	2.500/100
	3,5	BKY-M3.5/1	5,2	6,6	6,3	3,1	20,4	3,7	2.500/100
	4	BKY-M4	5,2	8,5	7,8	4,0	22,8	4,3	2.500/100
	5	BKY-M5	5,2	8,5	7,8	4,0	22,8	5,3	2.500/100
	6	BKY-M6/1	5,2	12,0	11,0	5,8	27,8	6,4	2.000/100
	8	BKY-M8	5,2	12,0	11,0	5,8	27,8	8,4	1.500/100
	10	BKY-M10	5,2	13,6	13,9	6,6	31,5	10,5	1.500/100
	12	BKY-M12	5,2	19,2	16,0	9,4	36,4	13,0	1.000/100
4÷6 (12÷10)	3,5	GKY-M3.5	7,0	7,2	6,1	3,6	22,7	3,7	1.000/100
	4	GKY-M4	7,0	9,5	9,1	4,5	26,6	4,3	1.000/100
	5	GKY-M5	7,0	9,5	9,1	4,5	26,6	5,3	1.000/100
	6	GKY-M6	7,0	12,0	10,5	6,0	29,5	6,4	1.000/100
	8	GKY-M8	7,0	15,0	13,5	7,5	34,0	8,4	1.000/100
	10	GKY-M10	7,0	15,0	13,5	7,5	34,0	10,5	1.000/100
	12	GKY-M12	7,0	19,2	16,0	9,6	38,6	13,0	1.000/100
	14	GKY-M14	7,0	32,0	25,2	16,0	54,2	15,0	500/100
	16	GKY-M16	7,0	32,0	25,2	16,0	54,2	17,0	500/100

fork/spade terminals



Cond. Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm Ø	B	M	N	L	d	Quantity Box/Bag
0,25÷1,5 (22÷16)	3	RKY-U3	4,5	5,7	6,5	4,5	22,0	3,2	2.500/100
	3,5	RKY-U3.5	4,5	5,7	6,5	4,5	22,0	3,7	2.500/100
	4	RKY-U4	4,5	6,4	6,5	4,5	22,0	4,3	3.000/100
	5	RKY-U5	4,5	8,1	6,5	4,5	22,0	5,3	3.000/100
	6	RKY-U6	4,5	9,5	6,5	4,5	22,0	6,4	2.000/100
	6	RKY-U6/1	4,5	12,0	11,0	6,0	28,0	6,4	2.000/100
1,5÷2,5 (16÷14)	3	BKY-U3	5,2	5,7	6,5	4,5	22,0	3,2	2.500/100
	3,5	BKY-U3.5	5,2	6,0	6,5	4,5	22,0	3,7	2.500/100
	4	BKY-U4	5,2	6,4	6,5	4,5	22,0	4,3	2.500/100
	5	BKY-U5	5,2	7,9	6,5	4,5	22,0	5,3	2.000/100
	6	BKY-U6	5,2	9,3	6,5	4,5	22,0	6,4	2.000/100
	6	BKY-U6/1	5,2	12,0	11,0	6,0	28,0	6,4	2.000/100
4÷6 (12÷10)	3,5	GKY-U3.5	7,0	7,2	7,5	3,9	24,4	3,7	1.000/100
	4	GKY-U4	7,0	7,2	7,5	3,9	24,4	4,3	1.000/100
	5	GKY-U5	7,0	9,0	7,0	5,5	25,5	5,3	1.000/100
	6	GKY-U6	7,0	12,0	12,0	6,5	31,5	6,4	1.000/100
	8	GKY-U8	7,0	14,0	10,5	7,0	30,5	8,4	1.000/100

Consult CEMBRE for a wider range of pin and blade dimensions.

RKF-F
BKF-F GK-F



PA6.6 | Brass | EASY ENTRY | 3µm TIN PLATED | -20°C +105°C | RADIAL

REINFORCED DISCONNECT TERMINALS

for Copper conductors

Recommended crimping tools are shown on pages 170 to 209, 296.

HF HALOGEN FREE

female connectors, fully reinforced with Copper sleeve

PA6.6 insulated terminals

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RKF-F305	2,8 x 0,5	3.000/100
	RKF-F308	2,8 x 0,8	3.000/100
	RKF-F405	4,8 x 0,5	2.500/100
	RKF-F408	4,8 x 0,8	2.500/100
	RKF-F608	6,35 x 0,8	2.500/100
1,5÷2,5 (16÷14)	BKF-F405	4,8 x 0,5	2.500/100
	BKF-F408	4,8 x 0,8	2.500/100
	BKF-F608	6,35 x 0,8	2.000/100
4÷6 (12÷10)	GK-F608	6,35 x 0,8	1.500/100

PA6.6 fully insulated terminals

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RKF-F405P	4,8 x 0,5	1.500/100
	RKF-F408P	4,8 x 0,8	2.000/100
	RKF-F608P	6,35 x 0,8	1.000/100
1,5÷2,5 (16÷14)	BKF-F405P	4,8 x 0,5	1.500/100
	BKF-F408P	4,8 x 0,8	2.000/100
	BKF-F608P	6,35 x 0,8	1.000/100
4÷6 (12÷10)	GK-F608P	6,35 x 0,8	1.000/100

RKF BKF GKF



PA6.6 | Brass | EASY ENTRY | 3µm TIN PLATED | -20°C +105°C | RADIAL

REINFORCED DISCONNECT TERMINALS

for Copper conductors

male connectors, fully reinforced with Copper sleeve - PA6.6 insulated terminals

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RKF-M608	6,35 x 0,8	3.000/100
1,5÷2,5 (16÷14)	BKF-M608	6,35 x 0,8	2.500/100
4÷6 (12÷10)	GKF-M608	6,35 x 0,8	1.000/100

Recommended crimping tools are shown on pages 170 to 209, 296.

HF HALOGEN FREE

male/female connectors, fully reinforced with Copper sleeve PA6.6 insulated terminals

Conductor Size sqmm (AWG)	Type	Tab Size mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RKF-FM608	6,35 x 0,8	1.500/100
1,5÷2,5 (16÷14)	BKF-FM608	6,35 x 0,8	1.500/100

bullet and socket connectors fully reinforced with Copper sleeve PA6.6 insulated terminals

Conductor Size sqmm (AWG)	Type	Ø mm	Quantity Box/Bag
0,25÷1,5 (22÷16)	RKF-BM4	4,0	2.500/100
	RKF-BF4	3,95	1.000/100
1,5÷2,5 (16÷14)	BKF-BM4	4,0	2.000/100
	BKF-BF4	3,95	800/100

RN-FA BN-FA

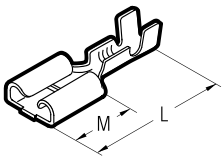


Brass | -40°C +125°C | INDENT

FEMALE CONNECTORS

for Copper conductors

Recommended crimping tools are shown on pages 170 to 209, 296.



Conductor Size sqmm (AWG)	Type	Tab Size mm	M mm	L mm	Quantity Box/Bag
0,5÷1 (20÷17)	RN-FA305	2,8 x 0,5	6,3	15,0	6.000/100
	RN-FA405	4,8 x 0,5	6,3	15,0	5.000/100
	RN-FA608	6,3 x 0,8	7,7	19,0	3.000/100
1÷2,5 (17÷14)	BN-FA608	6,3 x 0,8	7,7	19,0	2.000/100
	BN-FAB608*	6,3 x 0,8	7,7	15,5	2.000/100
	BN-FAR608**	6,3 x 0,8	7,7	19,0	3.000/100

*flag type **with retainer

MALE CONNECTORS

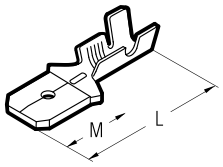
open barrel - for Copper conductors

RN-MA
BN-MA



Conductor Size sqmm (AWG)	Type	Tab Size mm	M mm	L mm	Quantity Box/Bag
0,5÷1 (20÷17)	RN-MA305	2,8 x 0,5	5,8	13,0	6.000/100
	RN-MA405	4,8 x 0,5	6,3	17,3	5.000/100
	RN-MA608	6,3 x 0,8	7,9	19,7	4.000/100
1÷2,5 (17÷14)	BN-MA608	6,3 x 0,8	7,9	20,0	4.000/100

Recommended crimping tools are shown on pages 170 to 209, 296.



Brass | -40°C +125°C | INDENT

MALE TABS

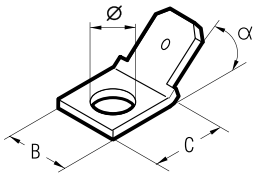
for board mounting - for Copper conductors

MP
MPD



Type	Tab Size mm	Ø Stud mm	B mm	C mm	α	Quantity Box/Bag
MP608	6,3 x 0,8	4,0	8,0	11,0	0°	5.000/100
MP608/45	6,3 x 0,8	4,0	8,0	8,5	45°	6.000/100
MP608/90	6,3 x 0,8	4,0	8,0	8,5	90°	5.000/100
MP608D*	6,3 x 0,8	5,0	8,0	14,0	0°	5.000/100

*double tab



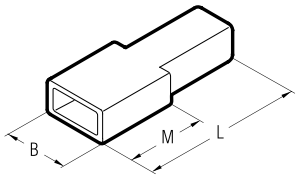
Brass | -40°C +125°C

CONNECTOR SLEEVES

CFA
CMA



Type	Connector	B mm	M mm	L mm	Material	Quantity Box/Bag
CFA300	Female 2,8	5,5	7	18	Polyethylene	3.000/100
CFA400*	Female 4,8	7,5	9	20	Polyethylene	2.000/100
CFA600*	Female 6,3	9,0	11	24	Polyethylene	1.000/100
CFA2-600**	Female 6,3	9,0	9	22	Polyethylene	1.000/100
CFAR600	Female 6,3 with retainer	9,0	12	25	Polyamide 6.6	500/100
CFAB600	Female 6,3 flag	10,0	–	18	Polyamide 6.6	500/50
CMA600*	Male 6,3	12,0	11	22	Polyethylene	500/100



*For a single cable.
Colours available:
Transparent: no suffix
Red: add suffix R
Black: add suffix N

**For twin cables.
Colours available:
Transparent: no suffix
Red: add suffix R
Black: add suffix N
Green: add suffix V
Blue: add suffix B
Yellow: add suffix G

Max operating temperature:

- CFA300; CFA400; CFA600; CFA2-600; CMA600 (PE) 65°C
- CFAR600; CFAB600 (PA6.6) 105°C

CEMBRE

PKD

PA6 INSULATED END SLEEVES

for flexible Copper conductors

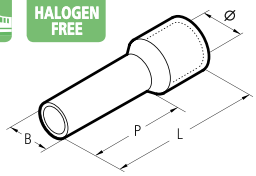


PA6 | Cu | ANNEALED | 3µm TIN PLATED | -20°C +115°C | TRAPEZIUM | SQUARE

The PK.. range of end sleeves is manufactured from Tin plated electrolytic Copper with a purity greater than 99.9%. The PA6 insulation type PA10080 is certified EN45545-2. Designed and developed to reinforce fine wire strands when terminating a cable into a connector block. The PKD series of insulated end sleeves comply with specification DIN 46228/4.
The operating temperature range is – 20 to + 115°C (Surge + 130°C). Recommended crimping tools are shown on pages 170 to 211, 263-265, 296, 298, 300-303.

UL CERTIFIED SAFETY US-CA E481745

EN 45545-2 | HF HALOGEN FREE





VALSTAR-N3 NEW
Comprising:
- a selection of end sleeves PKD conductor size 1÷6 sqmm
- Cable ties type G100X2
- tool ZKE610N.

VALSTAR-N2 NEW
Comprising:
- a selection of end sleeves PKE conductor size 1÷6 sqmm
- Cable ties type G100X2
- tool ZKE610N

VALSTAR-N1 NEW
Comprising:
- a selection of end sleeves PKC conductor size 1÷6 sqmm
- Cable ties type G100X2
- tool ZKE610N

Conductor Size sqmm	Type	Dimensions mm Ø	B	P	L	Insulation Colour	Quantity Box/Bag
0,3÷0,5	PKD506	2,6	1,4	6,0	12,0	white	10.000/500
	PKD508	2,6	1,4	8,0	14,0		10.000/500
	PKD510	2,6	1,4	10,0	16,0		10.000/500
0,75	PKD7506	2,8	1,6	6,0	12,0	grey	10.000/500
	PKD7508	2,8	1,6	8,0	14,0		10.000/500
	PKD7510	2,8	1,6	10,0	16,0		10.000/500
	PKD7512	2,8	1,6	12,0	18,0		10.000/500
1	PKD106	3,0	1,8	6,0	12,0	red	10.000/500
	PKD108	3,0	1,8	8,0	14,0		10.000/500
	PKD110	3,0	1,8	10,0	16,0		10.000/500
	PKD112	3,0	1,8	12,0	18,0		8.000/500
1,5	PKD1508	3,5	2,1	8,0	14,0	black	5.000/500
	PKD1510	3,5	2,1	10,0	16,0		5.000/500
	PKD1512	3,5	2,1	12,0	18,0		5.000/500
	PKD1518	3,5	2,1	18,0	24,0		5.000/500
2,5	PKD2508	4,2	2,6	8,0	14,0	blue	5.000/500
	PKD2512	4,2	2,6	12,0	18,0		4.000/500
	PKD2518	4,2	2,6	18,0	24,0		5.000/500
4	PKD410	4,8	3,3	10,0	18,0	grey	3.000/200
	PKD412	4,8	3,3	12,0	20,0		3.000/200
	PKD418	4,8	3,3	18,0	26,0		3.000/200
6	PKD612	6,3	4,0	12,0	20,0	yellow	1.500/100
	PKD618	6,3	4,0	18,0	26,0		1.500/100
10	PKD1012	7,6	5,0	12,0	22,0	red	1.000/100
	PKD1018	7,6	5,0	18,0	28,0		1.000/100
16	PKD1612	8,8	6,4	12,0	24,0	blue	800/100
	PKD1618	8,8	6,4	18,0	28,0		800/100
25	PKD25016	11,2	7,9	16,0	30,0	yellow	400/50
	PKD25022	11,2	7,9	22,0	36,0		400/50
35	PKD35016	12,7	8,9	16,0	30,0	red	300/50
	PKD35025	12,7	8,9	25,0	39,0		300/50
50	PKD50020	15,0	11,0	20,0	36,0	blue	200/50
	PKD50025	15,0	11,0	25,0	41,0		150/50

PKE

PA6 INSULATED END SLEEVES

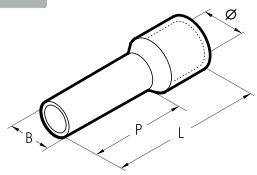
for flexible Copper conductors



PA6 | Cu | ANNEALED | 3µm TIN PLATED | -20°C +115°C | TRAPEZIUM | SQUARE

UL CERTIFIED SAFETY US-CA E481745

EN 45545-2 | HF HALOGEN FREE



Conductor Size sqmm	Type	Dimensions mm Ø	B	P	L	Insulation Colour	Quantity Box/Bag
0,1÷0,3	PKE308♦	1,9	1,1	8,0	12,0	yellow	20.000/500
0,3÷0,5	PKE508*	2,6	1,4	8,0	14,0	white	10.000/500
0,75	PKE7508	2,8	1,6	8,0	14,0	blue	10.000/500
1	PKE108*	3,0	1,8	8,0	14,0	red	10.000/500
1,5	PKE1508*	3,5	2,1	8,0	14,0	black	5.000/500
	PKE1510*	3,5	2,1	10,0	16,0		5.000/500
	PKE1518*	3,5	2,1	18,0	24,0		5.000/500
2,5	PKE2508	4,2	2,6	8,0	14,0	grey	5.000/500
	PKE2512	4,2	2,6	12,0	18,0		4.000/500
	PKE2518	4,2	2,6	18,0	24,0		3.000/500
4	PKE410	4,8	3,3	10,0	18,0	orange	3.000/200
	PKE412	4,8	3,3	12,0	20,0		3.000/200
	PKE418	4,8	3,3	18,0	26,0		3.000/200
6	PKE612	6,3	4,0	12,0	20,0	green	1.500/100
	PKE618	6,3	4,0	18,0	26,0		1.500/100
10	PKE1012	7,6	5,0	12,0	22,0	brown	1.000/100
	PKE1018	7,6	5,0	18,0	28,0		1.000/100
16	PKE1612	8,8	6,2	12,0	23,0	ivory	800/100
	PKE1618	8,8	6,2	18,0	29,0		800/100
25	PKE25016	11,2	7,9	16,0	30,0	black	400/50
	PKE25022	11,2	7,9	22,0	36,0		400/50

*to DIN standard 46 228/4 ♦Not UL approved

PA6 INSULATED END SLEEVES

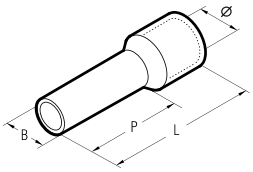
PKC

for flexible Copper conductors



Conductor Size sqmm	Type	Dimensions mm Ø	B	P	L	Insulation Colour	Quantity Box/Bag
0,1÷0,3	PKC306♦	1,9	1,1	6,0	10,0	turquoise	20.000/500
	PKC308♦	1,9	1,1	8,0	12,0		20.000/500
0,3÷0,5	PKC508	2,6	1,4	8,0	14,0	orange	10.000/500
	PKC510	2,6	1,4	10,0	16,0		10.000/500
0,75	PKC7508	2,8	1,6	8,0	14,0	white	10.000/500
	PKC7512	2,8	1,6	12,0	18,0		10.000/500
1	PKC108	3,0	1,8	8,0	14,0	yellow	10.000/500
	PKC112	3,0	1,8	12,0	18,0		7.500/500
1,5	PKC1508	3,5	2,1	8,0	14,0	red	5.000/500
	PKC1510	3,5	2,1	10,0	16,0		5.000/500
	PKC1518	3,5	2,1	18,0	24,0		5.000/500
2,5	PKC2508*	4,2	2,6	8,0	14,0	blue	5.000/500
	PKC2512*	4,2	2,6	12,0	18,0		5.000/500
	PKC2518*	4,2	2,6	18,0	24,0		5.000/500
4	PKC410*	4,8	3,3	10,0	18,0	grey	3.000/200
	PKC412*	4,8	3,3	12,0	20,0		3.000/200
	PKC418*	4,8	3,3	18,0	26,0		3.000/200
6	PKC612	6,3	4,0	12,0	20,0	black	1.500/100
	PKC618	6,3	4,0	18,0	26,0		1.500/100
10	PKC1012	7,6	5,0	12,0	22,0	ivory	1.000/100
	PKC1018	7,6	5,0	18,0	28,0		1.000/100
16	PKC1612	8,8	6,2	12,0	23,0	green	800/100
	PKC1618	8,8	6,2	18,0	29,0		800/100
25	PKC25016	11,2	7,9	16,0	30,0	brown	400/50
	PKC25022	11,2	7,9	22,0	36,0		500/50
35	PKC35016	12,7	8,9	16,0	30,0	beige	300/50
	PKC35025	12,7	8,9	25,0	39,0		200/50
50	PKC50020	15,0	11,0	20,0	36,0	olive	200/50
	PKC50025	15,0	11,0	25,0	41,0		150/50
70	PKC70022♦	16,0	14,3	22,0	38,0	yellow	100/25
95	PKC95025♦	18,0	15,7	25,0	44,0	red	100/25
120	PKC120027♦	21,0	17,5	27,0	48,0	blue	75/25

*to DIN standard 46 228/4 ♦Not UL approved



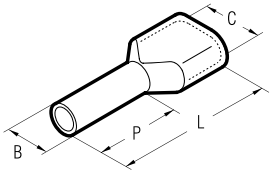
CEMBRE

PKT

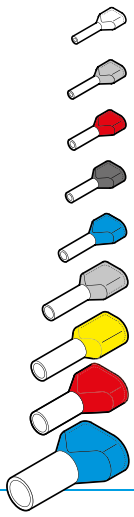
"TWIN" PA6 INSULATED END SLEEVES

for fine stranded conductors





for International Market (excluding UK)

Conductor Size sqmm		Type	Dimensions mm C	B	P	L	Insulation Colour	ND1,ND2,ND3, ND4 and HNKE 50 Compression Aperture	Quantity Box/Bag
2 x 0,5		**PKT508**	4,7x2,6	1,8	8,0	14,0	white	1	5.000/500
		PKT510♦	4,7x2,6	1,8	10,0	18,0			5.000/500
2 x 0,75		**PKT7508**	5,0x2,8	2,1	8,0	15,0	grey	1,5	2.500/100
		PKT7510	5,0x2,8	2,1	10,0	17,0			2.500/100
2 x 1		**PKT108**	5,4x3,4	2,4	8,0	16,0	red	2,5	2.500/100
		PKT110	5,4x3,4	2,4	10,0	18,0			2.500/100
2 x 1,5		**PKT1508**	6,6x3,6	2,6	8,0	16,0	black	2,5	2.500/100
		PKT1512	6,6x3,6	2,6	12,0	20,0			2.500/100
2 x 2,5		**PKT2510**	7,8x4,2	3,2	10,0	20,0	blue	4	2.000/100
		PKT2512	7,8x4,2	3,2	13,0	22,0			1.500/100
2 x 4		**PKT412**	8,8x4,9	4,2	12,0	23,0	grey	6	1.000/100
2 x 6		**PKT614**	10,0x6,9	5,3	14,0	26,0	yellow	10	800/100
2 x 10		**PKT1014♦**	13,3x7,5	6,2	12,0	24,0	red	16	500/50
2 x 16		**PKT1614**	18,6x9,6	8,9	14,0	30,0	blue	35	200/50

♦Not UL approved

Type PKT range of end sleeves is manufactured from Tin plated electrolytic Copper.
The PA6 insulation type PA10080 is certified EN45545-2.
Designed to accomodate two cables terminating in the same sleeve.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).

Recommended crimping tools are shown on pages 170 to 211, 263-265, 296, 298, 300-303.

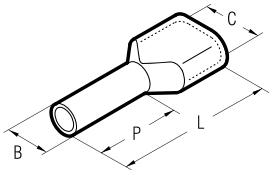
"TWIN" POLYPROPYLENE INSULATED END SLEEVES

for fine stranded conductors - for UK Market

PKET
PKCT



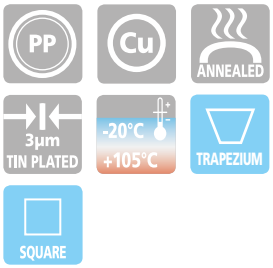
HF HALOGEN FREE



for UK Market

Conductor Size sqmm	Type	Dimensions mm				Insulation Colour	ND1,ND2,ND3, ND4 and HNKE 50 Compression Aperture	Quantity Box/Bag
		C	B	P	L			
2 x 0,5	**PKET508**	4,6x2,4	1,8	8,0	15,0	white	1	500
2 x 0,75	**PKET7508**	5,4x2,7	2,1	8,0	15,0	blue	1,5	500
	PKET7512	5,4x2,7	2,1	12,0	19,0			500
2 x 1	**PKET108**	5,3x2,3	2,35	8,0	15,0	red	2,5	500
	PKET112	5,3x3,3	2,35	12,0	19,0			500
2 x 1,5	**PKET1508**	6,5x3,5	2,6	8,0	16,0	black	2,5	500
	PKET1512	6,5x3,5	2,6	12,0	20,0		2,4	500
2 x 2,5	**PKET2510**	7,7x4,1	3,3	10,0	19,0	grey	4	250
	PKET2512	7,7x4,1	3,3	12,0	22,0			250
2 x 4	**PKET412**	8,7x4,9	4,2	12,0	23,0	orange	6	100
2 x 6	**PKET614**	9,9x6,1	5,3	14,0	25,0	green	10	100
2 x 10	**PKET1014**	12,9x7,1	6,9	14,0	26,0	brown	16	100
2 x 16	**PKET1616**	16,8x9,8	8,9	16,0	31,0	white	35	100

Conductor Size sqmm	Type	Dimensions mm				Insulation Colour	ND1,ND2,ND3, ND4 and HNKE 50 Compression Aperture	Quantity Box/Bag
		C	B	P	L			
2 x 0,5	**PKCT508**	4,6x2,4	1,8	8,0	15,0	orange	1	500
2 x 0,75	**PKCT7508**	5,4x2,7	2,1	8,0	15,0	white	1,5	500
	PKCT7512	5,4x2,7	2,1	12,0	19,0			500
2 x 1	**PKCT108**	5,3x2,3	2,35	8,0	15,0	yellow	2,5	500
	PKCT112	5,3x3,3	2,35	12,0	19,0			500
2 x 1,5	**PKCT1508**	6,5x3,5	2,6	8,0	16,0	red	2,5	500
	PKCT1512	6,5x3,5	2,6	12,0	20,0		2,4	500
2 x 2,5	**PKCT2510**	7,7x4,1	3,3	10,0	19,0	blue	4	250
	PKCT2512	7,7x4,1	3,3	12,0	22,0			250
2 x 4	**PKCT412**	8,7x4,9	4,2	12,0	23,0	grey	6	100
2 x 6	**PKCT614**	9,9x6,1	5,3	14,0	25,0	black	10	100
2 x 10	**PKCT1014**	12,9x7,1	6,9	14,0	26,0	ivory	16	100
2 x 16	**PKCT1616**	16,8x9,8	8,9	16,0	31,0	green	35	100



Type PKET, PKCT ranges of twin end sleeves are manufactured from Tin plated electrolytic Copper with a purity greater than 99.9%.
Designed to accomodate two cables terminating in the same sleeve they are ideal for looping conductors.
The operating temperature range is – 20 to + 105°C (Surge + 110°C).

Recommended crimping tools are shown on pages 170 to 211, 263-265, 296, 298, 300-303.

CEMBRE

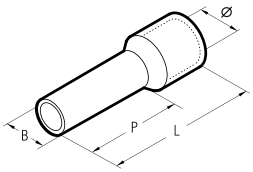
CPKD
CPKC

POLYPROPYLENE INSULATED CHAIN END SLEEVES

for flexible Copper conductors



PP · Cu · ANNEALED · 3µm TIN PLATED · -20°C +115°C · TRAPEZIUM



HF HALOGEN FREE

Conductor Size sqmm	Type	Dimensions mm Ø	B	P	L	Insulation Colour	Quantity Box/Bag
0,3÷0,5	CPKD508	2,6	1,3	8,0	14,0	white	5.000
0,75	CPKD7508	2,8	1,5	8,0	14,0	grey	5.000
0,75	CPKC7508	2,8	1,5	8,0	14,0	white	5.000
1	CPKD108	3,0	1,7	8,0	14,0	red	5.000
1,5	CPKD1508	3,5	2,0	8,0	14,0	black	5.000
2,5	CPKD2508	4,2	2,5	8,0	14,0	blue	3.000





Conforms to DIN standard 46228/4.

Interchangeable application heads are available for crimping these terminals with the bench press ELB-3 (see page 212).

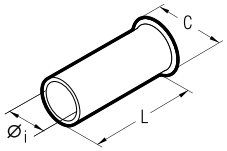
KE

UNINSUALATED END SLEEVES

for flexible Copper conductors



Cu · ANNEALED · 3µm TIN PLATED · -50°C +150°C · TRAPEZIUM · SQUARE



Conductor Size sqmm	Type	Dimensions mm Ø	L	C	Quantity Box/Bag
0,5	KE506ST*	1,0	6,0	1,9	50.000/500
	KE508ST	1,0	8,0	1,9	50.000/500
0,75	KE7506ST*	1,2	6,0	2,2	40.000/500
	KE7508ST	1,2	8,0	2,2	40.000/500
1	KE106ST*	1,4	6,0	2,4	25.000/500
	KE110ST*	1,4	10,0	2,4	25.000/500
1,5	KE1508ST	1,7	8,0	2,8	25.000/500
	KE1510ST*	1,7	10,0	2,8	25.000/500
2,5	KE2508ST	2,2	8,0	3,4	20.000/500
	KE2510ST*	2,2	10,0	3,4	15.000/500
4	KE410ST	2,8	10,0	4,0	12.500/500
	KE412ST*	2,8	12,0	4,0	10.000/500
6	KE610ST*	3,5	10,0	4,7	10.000/500
	KE612ST*	3,5	12,0	4,7	7.500/500
	KE616ST*	3,5	15,0	4,7	5.000/500
10	KE1016ST*	4,5	15,0	5,8	4.000/250
16	KE1616ST*	5,8	15,0	7,5	3.000/250
25	KE25015ST	7,3	15,0	9,5	1.500/100
	KE25018ST*	7,3	18,0	9,5	1.500/100
35	KE35012ST	8,3	12,0	10,5	1.500/100
	KE35015ST	8,3	16,0	10,5	1.500/100
	KE35018ST*	8,3	18,0	10,5	1.000/100

*to DIN standard 46 228/1

KE series end sleeves are manufactured from Tin plated electrolytic Copper of grade CW024A according to EN 12449, with purity greater than 99%. The compact geometry of the range allows for the termination of flexible conductors in confined spaces.

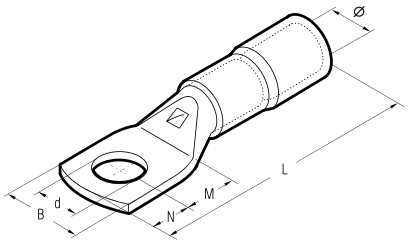
Recommended crimping tools are shown on pages 170 to 211, 263-265, 296, 298, 300-303.

COPPER TUBE CRIMPING LUGS PC INSULATED

for flexible Copper conductors - tested according to EN 45545-2:2013

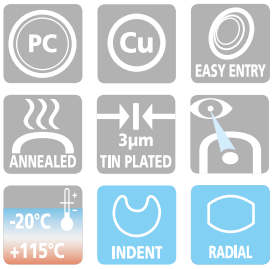
HF HALOGEN FREE

EN 45545





Conductor Size Flexible sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Insulation Colour	Quantity Box/Bag
			Ø	B	M	N	L	d		
0,25÷1,5 (22÷16)	3	P03-M3	4,0	6,0	4,5	3,5	22,0	3,2	Red	100
	3,5	P03-M3,5	4,0	6,5	4,5	3,5	22,0	3,7		100
	4	P03-M4	4,0	6,5	5,0	4,0	23,0	4,3		100
	5	P03-M5	4,0	7,5	5,5	4,5	24,0	5,3		100
	6	P03-M6	4,0	9,0	6,0	5,0	25,0	6,4		100
1,5÷2,5 (16÷14)	3	P06-M3	4,9	6,0	4,5	3,5	22,6	3,2	Blue	100
	3,5	P06-M3,5	4,9	6,5	4,5	3,5	22,6	3,7		100
	4	P06-M4	4,9	7,5	5,0	4,0	23,6	4,3		100
	5	P06-M5	4,9	8,5	5,5	4,5	24,6	5,3		100
	6	P06-M6	4,9	9,0	6,0	5,0	25,6	6,4		100
	8	P06-M8	4,9	12,0	9,0	8,0	31,3	8,4		100
4÷6 (12÷10)	3	P1-M3	6,7	7,5	4,5	3,5	28,0	3,2	yellow	100
	3,5	P1-M3,5	6,7	7,5	4,5	3,5	28,0	3,7		100
	4	P1-M4	6,7	8,0	5,0	4,0	30,0	4,3		100
	5	P1-M5	6,7	9,0	6,5	6,0	32,3	5,3		100
	6	P1-M6	6,7	11,0	7,0	6,0	32,8	6,4		100
	8	P1-M8	6,7	14,0	9,0	8,0	36,8	8,4		100
	10	P1-M10	6,7	16,5	11,0	10,0	41,4	10,5		100
	12	P1-M12	6,7	20,0	16,0	12,0	53,5	13,2		100



P-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The interior of the Polycarbonate insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
The P-M series lugs have the insulating sleeve in EN45545-2 certified PC10500AC type Polycarbonate, a halogen-free thermoplastic characterized, among other things, by a particular molecular structure which gives greater toughness compared to PVC and PA6.6.

- The operating temperature range is – 20 to + 115°C (Surge + 130°C).
- To install the P-M series lugs, use the HP3 or HP5 tools (see pages 170-171).

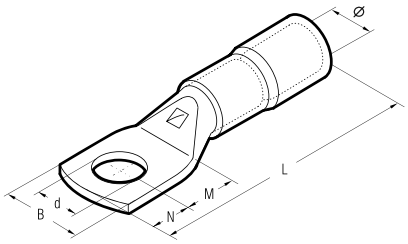
CEMBRE

ANE-M

POLYAMIDE PA6.6 INSULATED COPPER TUBE LUGS

for Copper conductors





PA6.6 | Cu | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +115°C | INDENT | RADIAL

ANE-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
It also eliminates the need to insulate the terminal using either tape or heat shrinkable tubing.
Furthermore the PA6.6 sleeve avoids the possibility of conductor breakage at the barrel entrance.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by CEMBRE.

Details of the appropriate crimping tools and dies are shown on pages 350 to 351.

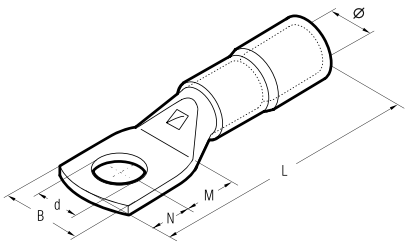
Cond. Size Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools				Hydraulic Tools				
			Ø	B	M	N	L	d		HNN3	HNN4	TNN70	TNN120	B15MD	HT51 RH50 B500 B500ND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	4	ANE2-M4	8,0	10,0	5,0	4,0	34,1	4,3	500/100	●							
	5	ANE2-M5	8,0	10,0	6,5	6,0	37,6	5,3	500/100	●							
	6	ANE2-M6	8,0	11,0	7,0	6,0	38,1	6,4	500/100	●							
	8	ANE2-M8	8,0	15,0	9,0	8,0	42,1	8,4	500/100	●							
	10	ANE2-M10	8,0	18,0	11,0	10,0	46,1	10,5	500/100	●							
	12	ANE2-M12	8,0	19,0	14,0	12,0	51,1	13,2	500/100	●							
16	4	ANE3-M4	9,2	11,5	5,0	4,0	38,6	4,3	400/100		●			●			
	5	ANE3-M5	9,2	11,5	6,5	6,0	42,1	5,3	400/100		●			●			
	6	ANE3-M6	9,2	11,5	7,0	6,0	42,6	6,4	400/100		●			●			
	8	ANE3-M8	9,2	15,0	9,0	8,0	46,6	8,4	400/100		●			●			
	10	ANE3-M10	9,2	18,0	11,0	10,0	50,6	10,5	300/100		●			●			
	12	ANE3-M12	9,2	20,0	14,0	12,0	55,6	13,2	300/100		●			●			
25	4	ANE5-M4	11,1	14,0	5,0	4,0	41,0	4,3	300/100			●			●		
	5	ANE5-M5	11,1	14,0	6,5	6,0	44,5	5,3	300/100			●			●		
	6	ANE5-M6	11,1	14,0	7,0	6,0	45,0	6,4	300/100			●			●		
	8	ANE5-M8	11,1	15,0	9,0	8,0	49,0	8,4	300/100			●			●		
	10	ANE5-M10	11,1	18,0	11,0	10,0	53,0	10,5	200/100			●			●		
	12	ANE5-M12	11,1	21,0	14,0	12,0	58,0	13,2	200/50			●			●		
35	6	ANE7-M6	13,6	17,0	7,0	6,0	50,0	6,4	100/50			●			●		
	8	ANE7-M8	13,6	17,0	9,0	8,0	54,0	8,4	100/50			●			●		
	10	ANE7-M10	13,6	19,0	11,0	10,0	58,0	10,5	100/50			●			●		
	12	ANE7-M12	13,6	21,0	14,0	12,0	63,0	13,2	100/50			●			●		
50	6	ANE10-M6	13,8	19,0	8,0	7,0	53,0	6,4	150/50			●			●		
	8	ANE10-M8	13,8	19,0	9,0	8,0	55,0	8,4	150/50			●			●		
	10	ANE10-M10	13,8	20,0	11,5	9,5	59,0	10,5	150/50			●			●		
	12	ANE10-M12	13,8	21,0	12,0	12,0	62,0	13,2	150/50			●			●		
70	6	ANE14-M6	15,8	21,0	8,0	7,0	61,0	6,4	75/25			●			●		
	8	ANE14-M8	15,8	21,0	9,0	8,0	63,0	8,0	75/25			●			●		
	10	ANE14-M10	15,8	21,0	11,0	10,0	67,0	10,5	75/25			●			●		
	12	ANE14-M12	15,8	22,0	14,0	12,0	72,0	13,2	75/25			●			●		
	14	ANE14-M14	15,8	25,0	16,0	14,0	76,0	15,0	100/25			●			●		
95	8	ANE19-M8	18,0	25,0	9,0	8,0	73,0	8,4	50/25				●		●		
	10	ANE19-M10	18,0	25,0	11,0	10,0	77,0	10,5	50/25				●		●		
	12	ANE19-M12	18,0	25,0	14,0	12,0	82,0	13,2	50/25				●		●		
	14	ANE19-M14	18,0	25,0	16,0	14,0	86,0	15,0	50/25				●		●		
	16	ANE19-M16	18,0	27,0	18,0	16,0	80,0	17,0	50/25				●		●		
120	10	ANE24-M10	20,0	28,5	11,0	10,0	77,7	10,5	50/25				●		●		
	12	ANE24-M12	20,0	28,5	14,0	12,0	86,5	13,2	50/25				●		●		
	14	ANE24-M14	20,0	28,5	16,0	14,0	88,5	15,0	50/25				●		●		
	16	ANE24-M16	20,0	28,5	18,0	16,0	90,5	17,0	50/25				●		●		
150	12	ANE30-M12	23,0	31,5	16,0	14,0	101,0	13,2	20/10				●			●	
	14	ANE30-M14	23,0	31,5	18,0	16,0	105,0	15,0	30/15				●			●	
	16	ANE30-M16	23,0	31,5	19,0	17,0	107,0	17,0	30/15				●			●	
	20	ANE30-M20	23,0	31,5	22,0	20,0	113,0	21,0	30/15				●			●	

POLYAMIDE PA6.6 INSULATED COPPER TUBE LUGS

ANE-M

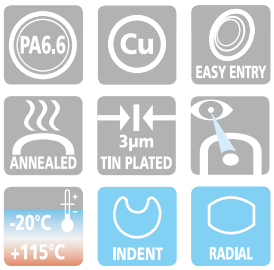
for extra flexible Copper conductors

for fine stranded • SPECIAL • flexible conductors





Conductor Size Extra Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools		Hydraulic Tools		
			Ø	B	M	N	L	d		TNN70	TNN120	HT51 RH50 B500 B500ND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
35	6	ANE9-M6/15*	13,6	15,0	8,0	7,0	54,0	6,4	150/50					
	8	ANE9-M8	13,6	17,0	9,0	8,0	56,0	8,4	150/50					
	10	ANE9-M10	13,6	18,5	11,0	10.0	60,0	10,5	150/50					
	12	ANE9-M12	13,6	21,0	14,0	12,0	65,0	13,2	150/50					
50	6	ANE12-M6/15*	15,7	15,0	8,0	7,0	59,5	6,4	50/25					
	8	ANE12-M8	15,7	19,8	9,0	8,0	61,5	8,4	50/25					
	10	ANE12-M10	15,7	19,8	11,0	10,0	65,5	10,5	50/25					
	10	ANE12-M10/19*	15,7	19,0	11,0	10,0	65,5	10,5	50/25					
	12	ANE12-M12	15,7	22,0	14,0	12,0	70,5	13,2	50/25					
70	6	ANE17-M6	17,9	23,0	8,0	7,0	63,8	6,4	50/25					
	8	ANE17-M8	17,9	23,0	9,0	8,0	65,8	8,4	50/25					
	10	ANE17-M10	17,9	23,0	11,0	10,0	69,8	10,5	50/25					
	10	ANE17-M10/19*	17,9	19,0	11,0	10,0	69,8	10,5	100/25					
	12	ANE17-M12	17,9	23,0	14,0	12,0	74,8	13,2	50/25					
	14	ANE17-M14	17,9	25,0	15,5	12,0	76,3	15,0	50/25					
	16	ANE17-M16	17,9	27,0	16,5	13,5	78,8	17,0	50/25					
95	8	ANE20-M8	20,0	27,0	9,0	8,0	70,6	8,4	50/25					
	10	ANE20-M10	20,0	27,0	11,0	10,0	74,6	10,5	50/25					
	12	ANE20-M12	20,0	27,0	14,0	12,0	79,6	13,2	50/25					
	14	ANE20-M14	20,0	27,0	15,5	12,0	81,1	15,0	50/25					
	16	ANE20-M16	20,0	27,0	16,5	13,5	83,6	17,0	50/25					
120	10	ANE29-M10	22,4	30,0	11,0	10,0	81,5	10,5	30/15					
	12	ANE29-M12	22,4	30,0	14,0	12,0	86,5	13,2	30/15					
	14	ANE29-M14	22,4	30,0	15,5	12,0	88,5	15,0	50/25					
	16	ANE29-M16	22,4	30,0	16,5	13,5	90,5	17,0	50/25					
	20	ANE29-M20	22,4	30.0	22,0	20,0	102,5	21,0	40/20					
150	12	ANE35-M12	25,0	34,2	16,0	14,0	95,0	13,2	30/15					
	14	ANE35-M14	25,0	34,2	18,0	16,0	99,0	15,0	30/15					
	16	ANE35-M16	25,0	34,2	19,0	17,0	101,0	17,0	30/15					
	20	ANE35-M20	25,0	34,2	22,0	20,0	107,0	21,0	30/15					



These lugs are particularly recommended for use with extra flexible conductors on for instance, welding machines.
ANE-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
It also eliminates the need to insulate the terminal using either tape or heat shrinkable tubing.
Furthermore the PA6.6 sleeve avoids the possibility of conductor breakage at the barrel entrance.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by CEMBRE.

Details of the appropriate crimping tools and dies are shown on pages 350 to 351.

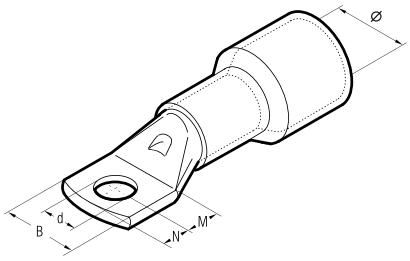
CEMBRE

AN-M
IN-M
EN-M

POLYAMIDE PA6.6 INSULATED COPPER TUBE LUGS

for Copper conductors





PA6.6 · Cu · EASY ENTRY · ANNEALED · 3µm TIN PLATED · -4°F +239°F · INDENT · RADIAL

These terminals are particularly recommended for use with flexible conductors.
They are manufactured from electrolytic copper tube with a purity greater than 99.9% and with dimension so as to ensure both a good electrical connection and an adequate resistance to vibrations and traction; they are annealed and tin plated.
For the same cable section are available different types of connectors with PA6.6 sleeve entry of different diameters so as to accept conductors with various insulation thickness.
The insulated sleeve additionally will accept the conductor so avoiding a sudden bending of the conductor itself at the connector entry, highly increasing its resistance to the mechanical solicitations that could break the conductor strands.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).

- **To complete the type of connectors add the screw diameter expressed in mm to the M reference.**
- **The M, N, and B dimensions concerning the palm are the same as the A-M connector ones.**

These connectors can be used also on low stranded conductors if crimped with radial containment dies of the MN..RF-C series.

In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by CEMBRE (see page 350 to 351).

Conductor Size mm²	Type	Insulation Ø mm	Insulation colour	Mechanical Tools: HNN3	HNN4	TNN70 TNN71	TNN 120	Hydraulic Tools: B15MD	HT51 RH50 B500 B500ND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
1,5÷2,5 F	AN06-M.....	4,1	blue	●							
	IN06-M.....	5,3	green	●							
	ENR06-M.....	6,0	blue	●							
	EN06-M.....	6,9		●							
4÷6 F	AN1-M.....	5,3	yellow	●							
	IN1-M.....	6,6	neutral	●							
	ON1-M.....	7,6	blue	●							
	UN1-M.....	8,7		●							
	EN1-M.....	14,1	red	●							
10 F 10 R	AN2-M.....	8,0	red	●	●			●			
	IN2-M.....	10,8	blue	●	●			●			
	ENR2-M.....	12,5	blue	●	●			●			
	EN2-M.....	15,1	red	●	●			●			
16 F 16 R	AN3-M.....	9,2	blue	●	●			●			
	EN3-M.....	11,7	blue	●	●			●			
	IN3-M.....	16,9	red	●	●			●			
25 F 25 R	AN5-M.....	11,1	yellow		●	●		●	●		
25÷35 F 35 R	AN7-M.....	11,9	red		●	●		●	●		
	EN7-M.....	13,0	blue		●	●		●	●		
	IN7-M.....	18,7	red		●	●		●	●		
35 F 50 R	AN10-M.....	13,8	neutral		●	●		●	●		
	IN10-M.....	15,0	blue		●	●		●	●		
	ENR10-M.....	17,3	blue		●	●		●	●		
	EN10-M.....	20,2	red		●	●		●	●		
50 F 70 R	AN14-M.....	15,8	blue		●	●		●	●		
	IN14-M.....	16,9	blue		●	●		●	●		
	EN14-M.....	21,9	red		●	●		●	●		
70 F 95 R	AN19-M.....	18,0	blue		●	●		●	●		
	EN19-M.....	19,6	blue		●	●		●	●		
	IN19-M.....	24,3	red		●	●		●	●		
95 F 120 R	AN24-M.....	20,0	red		●		●	●	●		
	IN24-M.....	22,2	blue		●		●	●	●		
	EN24-M.....	27,1	red		●		●	●	●		
120 F 150 R	AN30-M.....	23,0	red		●		●	●		●	
	EN30-M.....	24,5	blue		●		●	●		●	
	IN30-M.....	29,0	red		●		●	●		●	
150 F 185 R	INR37-M.....	29,0	blue							●	
	IN37-M.....	31,6	red							●	
185 F	EN48-M.....	29,4	red							●	
	IN48-M.....	34,5								●	
240 F	EN60-M.....	33,5	red							●	
	IN60-M.....	38,0								●	
300 F	EN80-M.....	37,7	blue							●	●
	IN80-M.....	41,1	red							●	●

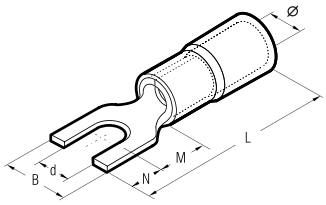
R = Rigid conductor F = Flexible conductor

POLYAMIDE PA6.6 INSULATED FORK TERMINALS

ANE-U

for Copper conductors





Conductor Size Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools			Hydraulic Tools			
			Ø	B	M	N	L	d		HNN3	HNN4	TNN70	TNN120	B15MD	HT51 RH50 B500 B500ND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	4	ANE2-U4	8,0	9,8	7,5	7,0	35,1	4,3	500/100								
	5	ANE2-U5	8,0	11,5	7,5	7,0	35,1	5,3	500/100								
16	4	ANE3-U4	9,2	10,0	10,0	8,0	41,1	4,3	400/100								
	5	ANE3-U5	9,2	11,5	10,0	8,0	41,1	5,3	400/100								

PA6.6 | Cu-ETP | Brazed SEAM | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +115°C | INDENT | RADIAL

ANE-U series terminals are made from electrolytic Copper with a purity greater than 99.9%, rolled, Tin plated and brazed.
The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).

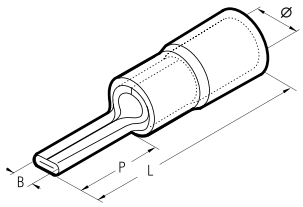
In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by CEMBRE.
Details of the appropriate crimping tools and dies are shown on pages 350 to 351.

POLYAMIDE PA6.6 INSULATED PIN TERMINALS

ANE-P

for Copper conductors





Conductor Size Flexible sqmm	Type	Dimensions mm				Quantity Box/Bag	Mechanical Tools				Hydraulic Tools			
		Ø	B	P	L		HNN3	HNN4	TNN70	TNN120	B15MD	HT51 RH50 B500 B500ND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	ANE2-P12	8,0	4,3	14,5	35,1	500/100								
16	ANE3-P14	9,2	5,5	18,0	41,1	400/100								
25	ANE5-P16	11,1	7,0	20,3	45,0	300/100								
35	ANE7-P20	13,6	8,0	24,5	55,0	150/50								

PA6.6 | Cu-ETP | Brazed SEAM | EASY ENTRY | ANNEALED | 3µm TIN PLATED | -20°C +115°C | INDENT | RADIAL

ANE-P series terminals are made from electrolytic Copper with a purity greater than 99.9%, rolled, Tin plated and brazed.
The interior of the PA6.6 insulated sleeve is funnel shaped so as to ensure complete and easy introduction of the conductor strands.
The operating temperature range is – 20 to + 115°C (Surge + 130°C).

In order to achieve the best electrical and mechanical performance it is suggested that they are crimped using dies and tools specifically developed for this purpose by CEMBRE.
Details of the appropriate crimping tools and dies are shown on pages 350 to 351.

CEMBRE

UNINSULATED TERMINALS

S range - brazed seam - for Copper conductors



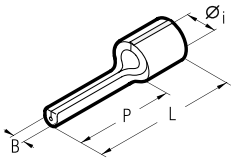
Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -50°C +150°C | INDENT

S range terminals are manufactured from electrolytic Copper strip with a purity greater than 99.9% and Tin plated.

The seam is brazed to provide uniform mechanical strength.
The terminal barrel is rifled to enhance electrical contact and to improve mechanical strength.

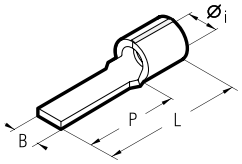
Recommended crimping tools are shown on pages 170 to 209, 296.

pin terminals



Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Øi	B	P	L	
0,25÷1,5 [22÷16]	**S1.5-P8**	1,8	1,6	8,0	12,0	*8.000/100*
	S1.5-P10	1,8	1,6	10,0	14,0	*8.000/100*
	S1.5-P12	1,8	1,6	12,0	16,2	*8.000/100*
1,5÷2,5 [16÷14]	**S2.5-P8**	2,4	1,6	8,0	12,0	*7.000/100*
	S2.5-P10	2,4	1,6	10,0	14,0	*7.000/100*
	S2.5-P12	2,4	1,6	12,0	16,0	*7.000/100*
4÷6 [12÷10]	**S6-P10**	3,6	2,2	10,0	16,8	*4.000/100*
	S6-P12	3,6	2,2	12,0	19,0	*4.000/100*
	S6-P14	3,6	2,2	14,0	21,0	*3.000/100*

blade terminals

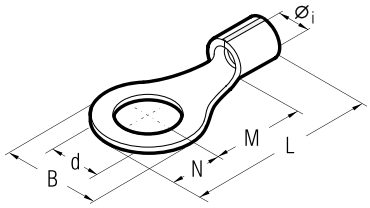


Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Øi	B	P	L	
0,25÷1,5 [22÷16]	**S1.5-PP12**	1,8	3,0	12,8	17,0	*8.000/100*
	S1.5-PP12/1*	1,8	3,0	11,3	15,5	*8.000/100*
	S1.5-PP12/19	1,8	1,9	13,2	17,4	*8.000/100*
	S1.5-PP14	1,8	3,0	14,8	19,0	*8.000/100*
1,5÷2,5 [16÷14]	**S2.5-PP12**	2,4	3,5	12,8	17,0	*7.000/100*
	S2.5-PP12/25	2,4	2,5	13,3	17,5	*7.000/100*
	S2.5-PP16/25	2,4	2,5	17,2	21,4	*7.000/100*
4÷6 [12÷10]	**S6-PP12**	3,6	4,0	13,3	19,7	*4.000/100*
	S6-PP17	3,6	2,9	19,1	25,5	*4.000/100*

*Made to order

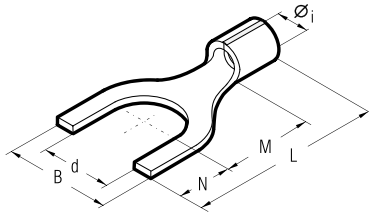
S range - brazed seam - for Copper conductors

ring terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Øi	B	M	N	L	d	
0,25÷1,5 [22÷16]	2	S1.5-M2*	1,8	5,6	4,5	2,8	11,5	2,2	7.000/100
	3	S1.5-M3	1,8	5,6	4,5	2,8	11,5	3,2	7.000/100
	3,5	S1.5-M3.5	1,8	5,6	4,5	2,8	11,5	3,7	7.000/100
	3,5	S1.5-M3.5/1*	1,8	6,2	7,1	3,1	14,4	3,7	7.000/100
	4	S1.5-M4	1,8	7,0	6,5	3,5	14,2	4,3	7.000/100
	4	S1.5-M4/3*	1,8	7,8	7,1	3,9	15,2	4,3	7.000/100
	5	S1.5-M5	1,8	7,8	7,1	3,9	15,2	5,3	7.000/100
	6	S1.5-M6	1,8	9,4	8,1	4,7	17,0	6,4	6.000/100
	6	S1.5-M6/1	1,8	12,0	10,3	6,0	20,5	6,4	5.000/100
	7	S1.5-M7	1,8	9,4	8,1	4,7	17,0	7,2	6.000/100
	8	S1.5-M8	1,8	12,0	10,3	6,0	20,5	8,4	4.000/100
	10	S1.5-M10	1,8	15,5	13,0	7,7	25,0	10,5	3.000/100
	12	S1.5-M12	1,8	18,0	15,5	9,0	28,7	13,0	2.000/100
1,5÷2,5 [16÷14]	3	S2.5-M3	2,4	5,6	5,0	2,8	12,0	3,2	6.000/100
	3,5	S2.5-M3.5	2,4	5,6	5,0	2,8	12,0	3,7	6.000/100
	3,5	S2.5-M3.5/1*	2,4	6,2	6,5	3,1	13,8	3,7	5.000/100
	4	S2.5-M4	2,4	8,0	6,5	4,0	14,7	4,3	5.000/100
	5	S2.5-M5	2,4	8,0	7,5	4,0	15,7	5,3	5.000/100
	6	S2.5-M6	2,4	9,4	8,6	4,7	17,5	6,4	5.000/100
	6	S2.5-M6/1	2,4	12,0	10,3	6,0	20,5	6,4	5.000/100
	7	S2.5-M7	2,4	10,0	7,8	5,0	17,0	7,2	5.000/100
	8	S2.5-M8	2,4	12,0	10,3	6,0	20,5	8,4	4.000/100
	10	S2.5-M10	2,4	15,5	13,0	7,7	25,0	10,5	2.500/100
	12	S2.5-M12	2,4	18,0	15,5	9,0	28,7	13,0	2.000/100
4÷6 [12÷10]	3	S6-M3	3,6	8,0	8,1	4,0	18,5	3,2	3.000/100
	3,5	S6-M3.5	3,6	8,0	8,1	4,0	18,5	3,7	3.000/100
	4	S6-M4	3,6	9,0	8,1	4,5	19,0	4,3	3.000/100
	5	S6-M5	3,6	9,0	8,1	4,5	19,0	5,3	2.500/100
	6	S6-M6	3,6	11,0	11,1	5,5	23,0	6,4	2.500/100
	6	S6-M6/1*	3,6	11,0	8,1	5,5	20,0	6,4	2.500/100
	7	S6-M7	3,6	11,0	11,1	5,5	23,0	7,2	2.500/100
	8	S6-M8	3,6	13,6	12,1	6,8	25,3	8,4	2.000/100
	8	S6-M8/1*	3,6	11,0	8,1	5,5	20,0	8,4	2.500/100
	10	S6-M10	3,6	13,6	12,1	6,8	25,3	10,5	2.000/100
	10	S6-M10/1	3,6	15,5	13,8	7,7	28,0	10,5	2.000/100
	12	S6-M12	3,6	19,0	15,1	9,5	31,0	13,0	1.000/100
	14	S6-M14	3,6	21,0	16,1	10,5	33,0	15,0	1.000/100
	16	S6-M16	3,6	24,0	17,1	12,0	35,5	17,0	1.000/100
10 (8)	4	S10-M4	4,8	11,5	9,0	5,8	23,8	4,3	2.000/100
	5	S10-M5	4,8	11,5	9,0	5,8	23,8	5,3	2.000/100
	6	S10-M6	4,8	11,5	9,0	5,8	23,8	6,4	2.000/100
	7	S10-M7	4,8	11,5	9,0	5,8	23,8	7,2	1.500/100

fork/spade terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Øi	B	M	N	L	d	
0,25÷1,5 [22÷16]	3	S1.5-U3	1,8	5,5	5,5	4,0	13,7	3,2	7.000/100
	3,5	S1.5-U3.5	1,8	6,0	6,5	3,8	14,5	3,7	7.000/100
	3,5	S1.5-U3.5/2*	1,8	6,4	6,5	3,8	14,5	3,7	7.000/100
	4	S1.5-U4	1,8	6,5	7,5	3,7	15,4	4,3	7.000/100
	4	S1.5-U4/1*	1,8	8,5	7,5	3,7	15,4	4,3	7.000/100
	4	S1.5-U4/2	1,8	7,5	7,5	3,7	15,4	4,3	7.000/100
	5	S1.5-U5	1,8	8,5	7,5	3,7	15,4	5,3	7.000/100
	5	S1.5-U5/1	1,8	9,4	7,5	3,7	15,4	5,3	7.000/100
	6	S1.5-U6	1,8	9,4	8,1	4,7	17,0	6,4	6.000/100
	6	S1.5-U6/1*	1,8	12,0	9,2	7,1	20,5	6,4	6.000/100
	8	S1.5-U8	1,8	14,0	10,0	6,3	20,5	8,4	3.000/100
	10	S1.5-U10	1,8	17,5	13,0	7,7	25,0	10,5	2.500/100
	12	S1.5-U12	1,8	20,0	15,5	9,0	28,7	13,0	2.000/100
1,5÷2,5 [16÷14]	3	S2.5-U3	2,4	5,5	5,5	4,0	13,7	3,2	6.000/100
	3,5	S2.5-U3.5	2,4	6,4	6,5	3,8	14,5	3,7	6.000/100
	3,5	S2.5-U3.5/1*	2,4	7,2	6,5	3,8	14,5	3,7	6.000/100
	4	S2.5-U4	2,4	6,5	7,5	3,7	15,4	4,3	5.000/100
	4	S2.5-U4/1*	2,4	8,5	7,5	3,7	15,4	4,3	6.000/100
	4	S2.5-U4/2*	2,4	7,5	7,5	3,7	15,4	4,3	6.000/100
	5	S2.5-U5	2,4	8,5	7,5	3,7	15,4	5,3	6.000/100
	6	S2.5-U6	2,4	9,4	8,1	4,7	17,0	6,4	5.000/100
	6	S2.5-U6/1*	2,4	12,0	9,2	7,1	20,5	6,4	4.000/100
	8	S2.5-U8	2,4	14,0	10,0	6,3	20,5	8,4	2.500/100
	10	S2.5-U10	2,4	17,5	13,0	7,7	25,0	10,5	2.000/100
	12	S2.5-U12	2,4	20,0	15,5	9,0	28,7	13,0	2.000/100
4÷6 [12÷10]	3,5	S6-U3.5	3,6	7,5	8,5	3,9	18,8	3,7	3.000/100
	4	S6-U4	3,6	7,5	8,0	4,4	18,8	4,3	3.000/100
	5	S6-U5	3,6	9,5	8,0	4,4	18,8	5,3	2.500/100
	6	S6-U6	3,6	10,0	11,0	5,5	22,9	6,4	2.500/100
	8	S6-U8	3,6	13,5	12,0	8,0	26,4	8,4	2.000/100
	10	S6-U10	3,6	15,5	13,0	8,0	27,4	10,5	2.000/100
	10	S6-U10/1*	3,6	17,5	13,8	7,7	28,0	10,5	2.000/100
	12	S6-U12	3,6	21,0	15,1	9,5	31,0	13,0	1.000/100
	14	S6-U14	3,6	23,0	16,1	10,5	33,0	15,0	1.000/100
	16	S6-U16*	3,6	26,0	17,1	11,5	35,0	17,0	1.000/100

*Made to order

RN BN GN

UNINSULATED TERMINALS

RN, BN, GN range - unbrazed - for Copper conductors



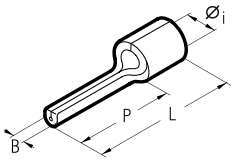
Cu-ETP | ANNEALED | 3µm TIN PLATED | -50°C +150°C | INDENT

RN, BN. GN range terminals are manufactured from electrolytic Copper strip with a purity greater than 99.9% and Tin plated.
The seam is unbrazed.

The terminal barrel is rifled to enhance electrical contact and to improve mechanical strength.

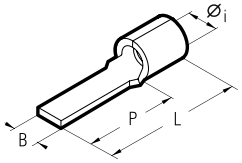
Recommended crimping tools are shown on pages 170 to 209, 296.

pin terminals



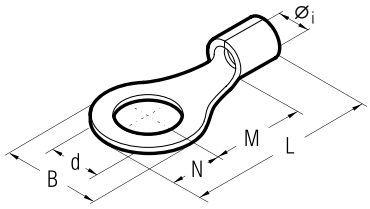
Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Øi	B	P	L	
0,25÷1,5 [22÷16]	RN-P8	1,8	1,6	8,0	12,0	8.000/100
	RN-P10	1,8	1,6	10,0	14,0	8.000/100
	RN-P12	1,8	1,6	12,0	16,2	8.000/100
1,5÷2,5 [16÷14]	BN-P8	2,4	1,6	8,0	12,0	7.000/100
	BN-P10	2,4	1,6	10,0	14,0	7.000/100
	BN-P12	2,4	1,6	12,0	16,0	7.000/100
4÷6 [12÷10]	GN-P10	3,6	2,2	10,0	16,8	4.000/100
	GN-P12	3,6	2,2	12,0	19,0	4.000/100
	GN-P14	3,6	2,2	14,0	21,0	3.500/100

blade terminals



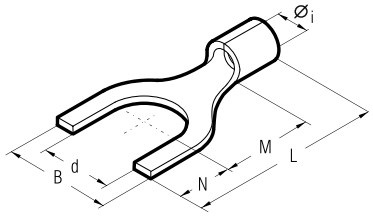
Conductor Size sqmm (AWG)	Type	Dimensions mm				Quantity Box/Bag
		Øi	B	P	L	
0,25÷1,5 [22÷16]	RN-PP12	1,8	3,0	12,8	17,0	8.000/100
	RN-PP12/1	1,8	3,0	11,3	15,5	8.000/100
	RN-PP12/19	1,8	1,9	13,2	17,4	8.000/100
	RN-PP14	1,8	3,0	14,8	19,0	8.000/100
	RN-PP16/23	1,8	2,3	17,2	21,4	8.000/100
1,5÷2,5 [16÷14]	BN-PP12	2,4	3,5	12,8	17,0	7.000/100
	BN-PP12/25	2,4	2,5	13,3	17,5	7.000/100
	BN-PP16/25	2,4	2,5	17,2	21,4	7.000/100
4÷6 [12÷10]	GN-PP12	3,6	4,0	13,3	19,7	4.000/100
	GN-PP17	3,6	2,9	19,1	25,5	3.000/100

ring terminals



Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Øi	B	M	N	L	d	
0,25÷1,5 (22÷16)	2	RN-M2*	1,8	5,6	4,5	2,8	11,5	2,2	7.000/100
	3	RN-M3	1,8	5,6	4,5	2,8	11,5	3,2	7.000/100
	3,5	RN-M3.5	1,8	5,6	4,5	2,8	11,5	3,7	7.000/100
	3,5	RN-M3.5/1	1,8	6,2	7,1	3,1	14,4	3,7	7.000/100
	4	RN-M4	1,8	7,0	6,5	3,5	14,2	4,3	7.000/100
	4	RN-M4/3	1,8	7,8	7,1	3,9	15,2	4,3	7.000/100
	5	RN-M5	1,8	7,8	7,1	3,9	15,2	5,3	7.000/100
	6	RN-M6	1,8	9,4	8,1	4,7	17,0	6,4	6.000/100
	6	RN-M6/1	1,8	12,0	10,3	6,0	20,5	6,4	4.000/100
	7	RN-M7	1,8	9,4	8,1	4,7	17,0	7,2	6.000/100
	8	RN-M8	1,8	12,0	10,3	6,0	20,5	8,4	4.000/100
	10	RN-M10	1,8	15,5	13,0	7,7	25,0	10,5	2.000/100
	12	RN-M12	1,8	18,0	15,5	9,0	28,7	13,0	2.000/100
1,5÷2,5 (16÷14)	2	BN-M2*	2,4	5,6	5,0	2,8	12,0	2,2	6.000/100
	3	BN-M3	2,4	5,6	5,0	2,8	12,0	3,2	6.000/100
	3,5	BN-M3.5	2,4	5,6	5,0	2,8	12,0	3,7	6.000/100
	3,5	BN-M3.5/1	2,4	6,2	6,5	3,1	13,8	3,7	6.000/100
	4	BN-M4	2,4	8,0	6,5	4,0	14,7	4,3	5.000/100
	5	BN-M5	2,4	8,0	7,5	4,0	15,7	5,3	5.000/100
	6	BN-M6	2,4	9,4	8,6	4,7	17,5	6,4	5.000/100
	6	BN-M6/1	2,4	12,0	10,3	6,0	20,5	6,4	5.000/100
	7	BN-M7	2,4	10,0	7,8	5,0	17,0	7,2	5.000/100
	8	BN-M8	2,4	12,0	10,3	6,0	20,5	8,4	4.000/100
	10	BN-M10	2,4	15,5	13,0	7,7	25,0	10,5	2.500/100
	12	BN-M12	2,4	18,0	15,5	9,0	28,7	13,0	2.000/100
4÷6 (12÷10)	3	GN-M3	3,6	8,0	8,1	4,0	18,5	3,2	3.000/100
	3,5	GN-M3.5	3,6	8,0	8,1	4,0	18,5	3,7	3.000/100
	4	GN-M4	3,6	9,0	8,1	4,5	19,0	4,3	3.000/100
	5	GN-M5	3,6	9,0	8,1	4,5	19,0	5,3	2.500/100
	6	GN-M6	3,6	11,0	11,1	5,5	23,0	6,4	2.500/100
	6	GN-M6/1	3,6	11,0	8,1	5,5	20,0	6,4	2.500/100
	7	GN-M7	3,6	11,0	11,1	5,5	23,0	7,2	2.500/100
	8	GN-M8	3,6	13,6	12,1	6,8	25,3	8,4	2.000/100
	8	GN-M8/1*	3,6	11,0	8,1	5,5	20,0	8,4	2.500/100
	10	GN-M10	3,6	13,6	12,1	6,8	25,3	10,5	2.000/100
	10	GN-M10/1	3,6	15,5	13,8	7,7	28,0	10,5	2.000/100
	12	GN-M12	3,6	19,0	15,1	9,5	31,0	13,0	1.000/100
	14	GN-M14	3,6	21,0	16,1	10,5	33,0	15,0	1.000/100
	16	GN-M16	3,6	24,0	17,1	12,0	35,5	17,0	1.000/100

fork/spade terminals



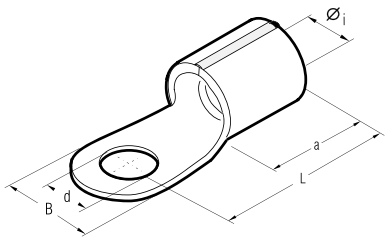
Conductor Size sqmm (AWG)	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag
			Øi	B	M	N	L	d	
0,25÷1,5 (22÷16)	3	RN-U3	1,8	5,5	5,5	4,0	13,7	3,2	7.000/100
	3,5	RN-U3.5	1,8	6,0	6,5	3,8	14,5	3,7	7.000/100
	3,5	RN-U3.5/2	1,8	6,4	6,5	3,8	14,5	3,7	7.000/100
	4	RN-U4	1,8	6,5	7,5	3,7	15,4	4,3	7.000/100
	4	RN-U4/1	1,8	8,5	7,5	3,7	15,4	4,3	7.000/100
	4	RN-U4/2	1,8	7,5	7,5	3,7	15,4	4,3	7.000/100
	5	RN-U5	1,8	8,5	7,5	3,7	15,4	5,3	5.000/100
	5	RN-U5/1*	1,8	9,4	7,5	3,7	15,4	5,3	5.000/100
	6	RN-U6	1,8	9,4	8,1	4,7	17,0	6,4	6.000/100
	6	RN-U6/1	1,8	12,0	9,2	7,1	20,5	6,4	3.000/100
	8	RN-U8	1,8	14,0	10,0	6,3	20,5	8,4	2.500/100
	10	RN-U10	1,8	17,5	13,0	7,7	25,0	10,5	2.000/100
	12	RN-U12	1,8	20,0	15,5	9,0	28,7	13,0	2.000/100
1,5÷2,5 (16÷14)	3	BN-U3	2,4	5,5	5,5	4,0	13,7	3,2	6.000/100
	3,5	BN-U3.5	2,4	6,4	6,5	3,8	14,5	3,7	6.000/100
	3,5	BN-U3.5/1*	2,4	7,2	6,5	3,8	14,5	3,7	6.000/100
	4	BN-U4	2,4	6,5	7,5	3,7	15,4	4,3	6.000/100
	4	BN-U4/1	2,4	8,5	7,5	3,7	15,4	4,3	6.000/100
	4	BN-U4/2	2,4	7,5	7,5	3,7	15,4	4,3	6.000/100
	5	BN-U5	2,4	8,5	7,5	3,7	15,4	5,3	5.000/100
	6	BN-U6	2,4	9,4	8,1	4,7	17,0	6,4	5.000/100
	6	BN-U6/1	2,4	12,0	9,2	7,1	20,5	6,4	4.000/100
	8	BN-U8	2,4	14,0	10,0	6,3	20,5	8,4	4.000/100
	10	BN-U10	2,4	17,5	13,0	7,7	25,0	10,5	2.000/100
	12	BN-U12	2,4	20,0	15,5	9,0	28,7	13,0	2.000/100
4÷6 (12÷10)	3,5	GN-U3.5	3,6	7,5	8,5	3,9	18,8	3,7	3.000/100
	4	GN-U4	3,6	7,5	8,0	4,4	18,8	4,3	3.000/100
	5	GN-U5	3,6	9,5	8,0	4,4	18,8	5,3	2.500/100
	6	GN-U6	3,6	10,0	11,0	5,5	22,9	6,4	2.500/100
	8	GN-U8	3,6	13,5	12,0	8,0	26,4	8,4	2.000/100
	10	GN-U10	3,6	15,5	13,0	8,0	27,4	10,5	2.000/100
	10	GN-U10/1	3,6	17,5	13,8	7,7	28,0	10,5	2.000/100
	12	GN-U12	3,6	21,0	15,1	9,5	31,0	13,0	1.000/100
	14	GN-U14	3,6	23,0	16,1	10,5	33,0	15,0	1.000/100
	16	GN-U16	3,6	26,0	17,1	11,5	35,0	17,0	1.000/100

*Made to order

CRIMPING CONNECTORS ACCORDING TO DIN 46234

for Copper conductors





Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -50°C +150°C | INDENT

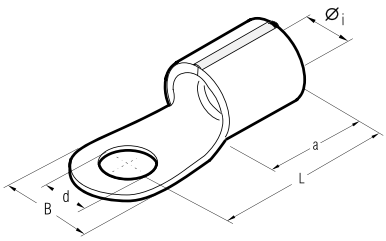
Q type connectors are manufactured from electrolytic Copper strip with a purity greater than 99.9%, annealed and surface protected by tin plating; dimensions are compliant with DIN 46234; the sleeve is brazed with a silver-Copper alloy.
Details of the conductor csa and stud diameter are engraved on the palm.
Details of the appropriate crimping tools and dies are shown on page 358.

Consult us for special requirements.

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm					Quantity Box/Bag	Mechanical Tools	Hydraulic Tools									
			Øi	d	L	B	a												
6÷10	4	**Q10-4**	4,5	4,3	16,0	10,0	8,0	1.500/100	HN5*	HT51D RH50 RHM50 B500 B500ND HT81-UD RHU81D	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
	5	**Q10-5**	4,5	5,3	16,0	10,0	8,0	1.500/100					
	6	**Q10-6**	4,5	6,5	17,0	11,0	8,0	1.000/100					
	8	**Q10-8**	4,5	8,4	20,0	14,0	8,0	1.000/100					
	10	**Q10-10**	4,5	10,5	21,0	18,0	8,0	1.000/100					
	12	**Q10-12**	4,5	13,0	22,0	22,0	8,0	500/100					
10÷16	5	**Q16-5**	5,8	5,3	20,0	11,0	10,0	1.000/100					
	6	**Q16-6**	5,8	6,5	20,0	11,0	10,0	1.000/100					
	8	**Q16-8**	5,8	8,4	22,0	14,0	10,0	500/100					
	10	**Q16-10**	5,8	10,5	24,0	18,0	10,0	500/100					
	12	**Q16-12**	5,8	13,0	26,0	22,0	10,0	500/100					
16÷25	5	**Q25-5**	7,5	5,3	25,0	12,0	11,0	500/100					
	6	**Q25-6**	7,5	6,5	25,0	12,0	11,0	500/100					
	8	**Q25-8**	7,5	8,4	25,0	16,0	11,0	500/100					
	10	**Q25-10**	7,5	10,5	26,0	18,0	11,0	500/100					
	12	**Q25-12**	7,5	13,0	31,0	22,0	11,0	500/100					
	16	**Q25-16**	7,5	17,0	35,0	28,0	11,0	200/100					
25÷35	6	**Q35-6**	9,0	6,5	26,0	15,0	12,0	400/100					
	8	**Q35-8**	9,0	8,4	26,0	16,0	12,0	400/100					
	10	**Q35-10**	9,0	10,5	27,0	18,0	12,0	300/100					
	12	**Q35-12**	9,0	13,0	31,0	22,0	12,0	250/50					
	16	**Q35-16**	9,0	17,0	36,0	28,0	12,0	200/50					
35÷50	6	**Q50-6**	11,0	6,5	34,0	18,0	16,0	200/50					
	8	**Q50-8**	11,0	8,4	34,0	18,0	16,0	200/50					
	10	**Q50-10**	11,0	10,5	34,0	18,0	16,0	200/50					
	12	**Q50-12**	11,0	13,0	36,0	22,0	16,0	200/50					
	16	**Q50-16**	11,0	17,0	40,0	28,0	16,0	200/50					
50÷70	6	**Q70-6**	13,0	6,5	38,0	22,0	18,0	100/50					
	8	**Q70-8**	13,0	8,4	38,0	22,0	18,0	100/50					
	10	**Q70-10**	13,0	10,5	38,0	22,0	18,0	100/50					
	12	**Q70-12**	13,0	13,0	38,0	22,0	18,0	100/50					
	16	**Q70-16**	13,0	17,0	42,0	28,0	18,0	100/50					
70÷95	8	**Q95-8**	15,0	8,4	42,0	24,0	20,0	100/25					
	10	**Q95-10**	15,0	10,5	42,0	24,0	20,0	100/25					
	12	**Q95-12**	15,0	13,0	44,0	24,0	20,0	100/25					
	16	**Q95-16**	15,0	17,0	70,0	28,0	20,0	100/25					

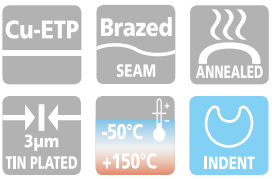
CRIMPING CONNECTORS ACCORDING TO DIN 46234

for Copper conductors



Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm					Quantity Box/Bag	Hydraulic Tools		
			Øi	d	L	B	a				
95÷120	8	Q120-8	16,5	8,4	44,0	24,0	22,0	100/25	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
	10	Q120-10	16,5	10,5	44,0	24,0	22,0	100/25			
	12	Q120-12	16,5	13,0	44,0	24,0	22,0	100/25			
	16	Q120-16	16,5	17,0	48,0	28,0	22,0	50/25			
120:150	10	Q150-10	19,0	10,5	50,0	30,0	24,0	50/25			
	12	Q150-12	19,0	13,0	50,0	30,0	24,0	50/25			
	16	Q150-16	19,0	17,0	50,0	30,0	24,0	50/25			
150÷185	10	Q185-10	21,0	10,5	50,0	36,0	28,0	40/20			
	12	Q185-12	21,0	13,0	50,0	36,0	28,0	40/20			
	16	Q185-16	21,0	17,0	50,0	36,0	28,0	30/15			
185÷240	10	Q240-10	23,5	10,5	56,0	38,0	32,0	10/10			
	12	Q240-12	23,5	13,0	56,0	38,0	32,0	10/10			
	16	Q240-16	23,5	17,0	56,0	38,0	32,0	10/10			

Consult us for further information.



Consult us for special requirements.

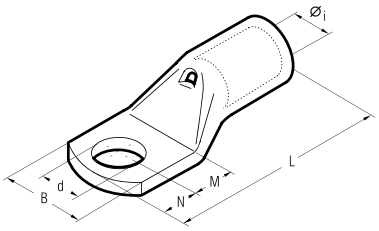
CEMBRE

A-M

COPPER TUBE CRIMPING LUGS

for Copper conductors





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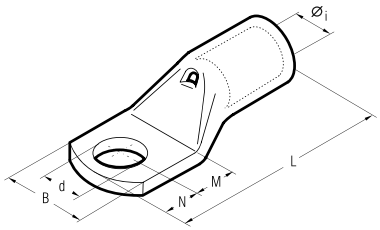


A-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, lugs still have to provide a reliable connection and annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation. A-M series lugs form an important part of CEMBRE crimping systems for power carrying conductors, details of the appropriate crimping tools and dies are shown opposite and in detail on pages 348 to 349.
Our technicians are always available to provide any technical advice which may be required.
The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.

| Conductor Size sqmm | | Ø Stud mm | Type | Dimensions mm | | | | | | Quantity Box/Bag | Mechanical Tools | | | Hydraulic Tools | | | | | |

COPPER TUBE CRIMPING LUGS

for Copper conductors



Conductor Size sqmm		Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools											
Low Str.	Flex*			Øi	B	M	N	L	d		TN1205E**	HT45-E	B450ND-BV	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
95	70	6	A19-M6	13,5	25,0	8,0	7,0	50,5	6,4	100/25																
	95	8	A19-M8	13,5	25,0	9,0	8,0	52,5	8,4	100/25																
		10	A19-M10	13,5	25,0	11,0	10,0	56,5	10,5	100/25																
		12	A19-M12	13,5	25,0	14,0	12,0	61,5	13,2	100/25																
		14	A19-M14	13,5	25,0	16,0	14,0	65,5	15,0	100/25																
		16	A19-M16	13,5	27,0	18,0	16,0	69,5	17,0	50/25																
		20	A19-M20	13,5	29,5	22,0	20,0	77,5	21,0	50/25																
120	95	8	A24-M8	15,2	28,5	9,0	8,0	54,0	8,4	75/25																
	120	10	A24-M10	15,2	28,5	11,0	10,0	58,0	10,5	75/25																
		12	A24-M12	15,2	28,5	14,0	12,0	63,0	13,2	75/25																
		14	A24-M14	15,2	28,5	16,0	14,0	67,0	15,0	50/25																
		16	A24-M16	15,2	28,5	18,0	16,0	71,0	17,0	50/25																
		20	A24-M20	15,2	30,0	22,0	20,0	79,0	21,0	50/25																
150	120	8	A30-M8	16,7	31,5	13,0	11,0	69,0	8,4	50/25																
	150	10	A30-M10	16,7	31,5	13,0	11,0	69,0	10,5	50/25																
		12	A30-M12	16,7	31,5	16,0	14,0	75,0	13,2	50/25																
		14	A30-M14	16,7	31,5	18,0	16,0	79,0	15,0	50/25																
		16	A30-M16	16,7	31,5	19,0	17,0	81,0	17,0	50/25																
		20	A30-M20	16,7	31,5	22,0	20,0	87,0	21,0	50/25																
185	150	8	A37-M8	19,2	35,5	13,0	11,0	76,0	8,4	30/15																
	185	10	A37-M10	19,2	35,5	13,0	11,0	76,0	10,5	30/15																
		12	A37-M12	19,2	35,5	16,0	14,0	82,0	13,2	30/15																
		14	A37-M14	19,2	35,5	18,0	16,0	86,0	15,0	30/15																
		16	A37-M16	19,2	35,5	19,0	17,0	88,0	17,0	30/15																
		20	A37-M20	19,2	35,5	22,0	20,0	94,0	21,0	30/15																
240	185	8	A48-M8	21,1	39,0	13,0	11,0	77,5	8,4	20/10																
	240	10	A48-M10	21,1	39,0	13,0	11,0	77,5	10,5	20/10																
		12	A48-M12	21,1	39,0	14,0	12,0	79,5	13,2	20/10																
		14	A48-M14	21,1	39,0	18,0	16,0	92,0	15,0	20/10																
		16	A48-M16	21,1	39,0	19,0	17,0	94,0	17,0	20/10																
		20	A48-M20	21,1	39,0	22,0	20,0	100,0	21,0	20/10																
300	240	10	A60-M10	23,7	44,0	20,0	11,0	96,0	10,5	20/10																
	300	12	A60-M12	23,7	44,0	20,0	14,0	99,0	13,2	20/10																
		14	A60-M14	23,7	44,0	22,0	16,0	103,0	15,0	20/10																
		16	A60-M16	23,7	44,0	22,0	19,0	106,0	17,0	20/10																
		20	A60-M20	23,7	44,0	24,0	23,0	112,0	21,0	20/10																
400	300	12	A80-M12	27,0	51,0	22,0	19,0	113,0	13,2	15/5																
	400	14	A80-M14	27,0	51,0	22,0	19,0	113,0	15,0	15/5																
		16	A80-M16	27,0	51,0	22,0	19,0	113,0	17,0	15/5																
		20	A80-M20	27,0	51,0	24,0	23,0	119,0	21,0	15/5																
500	400	16	A100-M16	30,3	56,5	22,0	19,0	117,0	17,0	10/1																
	500	20	A100-M20	30,3	56,5	24,0	23,0	123,0	21,0	10/1																
630	500	16	A120-M16♦	33,4	61,6	22,0	19,0	128,0	17,0	9/1																
	630	20	A120-M20♦	33,4	61,6	24,0	23,0	134,0	21,0	9/1																
800	630	16	A160-M16♦	38,0	72,0	24,0	19,0	141,0	17,0	5/1																
		20	A160-M20♦	38,0	72,0	24,0	23,0	145,0	21,0	6/1																
1000	800	16	A200-M16♦	44,0	80,0	24,0	19,0	158,0	17,0	5/1																
		20	A200-M20♦	44,0	80,0	24,0	23,0	162,0	21,0	5/1																

*Actual conductor section may require a larger lug eg for 120mm² size use A30-... lug.

**See page 187

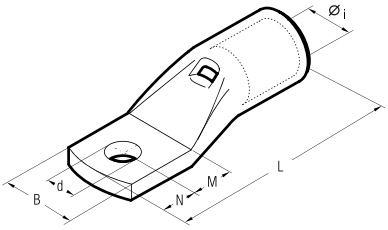
♦Not UL approved

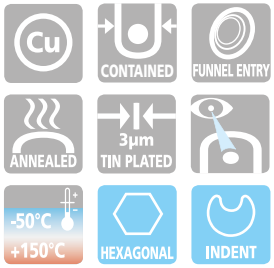
CEMBRE

RING TONGUE TERMINALS WITH CONTAINED PALM

for L.V. circuit breakers - for Copper conductors







	Cond. Size Flexible sqmm	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Quantity Box/Bag	Mechanical Tools HN5	HN-A25	TN70SE	TN120SE	Hydraulic Tools B15MD	B450ND-BV	HT45-E	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
	10	5	**A2-M5/9**	4,6	9,0	6,5	6,0	26,0	5,3	*1.000/100*																			
	16	5	**A3-M5/9**	5,8	9,0	6,5	6,0	30,5	5,3	*1.000/100*																			
	25	5	**A5-M5/9**	7,0	9,0	6,5	6,0	31,5	5,3	*500/100*																			
	35	6	**A7B-M6/11.5***	8,9	11,5	8,0	7,0	36,5	6,4	*400/100*																			
	50	6	**A10B-M6/11.5***	10,0	11,5	8,0	7,0	40,5	6,4	*200/50*																			
	70	6	**A14B-M6/11.5***	11,3	11,5	8,0	7,0	44,5	6,4	*200/50*																			
	95	8	**A19B-M8/15.5***	13,5	15,5	9,0	8,0	52,5	8,4	*100/25*																			
NEW		8	**A19-M8/19**	13,5	19,0	9,0	8,0	52,5	8,4	*100/25*																			
	120	8	**A24B-M8/19***	15,2	19,0	14,0	9,0	60,0	8,4	*75/25*																			
		10	**A24B-M10/19***	15,2	19,0	14,0	9,0	60,0	10,5	*75/25*																			
	150	8	**A30B-M8/19***	16,7	19,0	18,0	9,0	70,0	8,4	*50/25*																			
		10	**A30B-M10/19***	16,7	19,0	18,0	9,0	70,0	10,5	*50/25*																			
	185	10	**A37B-M10/24.5***	19,2	24,5	18,0	9,0	77,0	10,5	*30/15*																			
	240	10	**A48-M10/31**	21,1	31,0	13,0	9,0	80,0	10,5	*20/10*																			
		12	**A48-M12/31**	21,1	31,0	16,0	12,0	86,0	13,2	*20/10*																			
		16	**A48-M16/31**	21,1	31,0	19,0	17,0	94,0	17,0	*20/10*																			
	300	10	**A60B-M10/31***	23,7	31,0	16,0	12,0	95,0	10,5	*20/10*																			
		12	**A60B-M12/31***	23,7	31,0	16,0	12,0	95,0	13,2	*20/10*																			

*Without inspection hole

This range of terminals features contained palm width and has been specifically developed for application on L.V. circuit breakers with reduced space terminal blocks.
The contained palm width allows an immediate and easier installation.
CEMBRE terminals are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The specifically designed section of the barrel and the choice of principal dimensions are optimising the best combination of mechanical strength and electrical conductivity.
These terminals are annealed to guarantee optimum ductility and are electrolytically Tin plated to avoid oxidation.

The barrel is provided with an internal taper to ease the introduction of the conductor; furthermore, its length grants a comfortable and correct positioning between dies, during crimping operations.
Each palm is marked with the CEMBRE logo and part number.

Easy to install via cable gland, allows for pre-installation.

Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

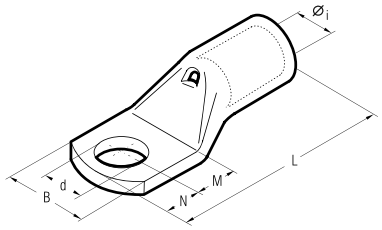




COPPER TUBE CRIMPING LUGS

for extra flexible Copper conductors

for fine stranded • SPECIAL • flexible conductors





Conductor Size Extra Flexible sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools		Hydraulic Tools												
			Øi	B	M	N	L	d		TN70SE	TN120SE	HT45-E	B450ND-BV	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
35	6	A9-M6/15	9,3	15,0	8,0	7,0	38,5	6,4	400/100																	
	8	A9-M8	9,3	17,0	9,0	8,0	40,5	8,4	400/100																	
	10	A9-M10	9,3	18,5	11,0	10,0	44,5	10,5	300/100																	
	12	A9-M12	9,3	21,0	14,0	12,0	49,5	13,2	200/50																	
50	6	A12-M6/15	11,0	15,0	8,0	7,0	40,5	6,4	200/50																	
	8	A12-M8	11,0	19,3	9,0	8,0	42,5	8,4	200/50																	
	10	A12-M10	11,0	19,3	11,0	10,0	46,5	10,5	200/50																	
	10	A12-M10/19	11,0	19,0	11,0	10,0	46,5	10,5	200/50																	
	12	A12-M12	11,0	22,0	14,0	12,0	51,5	13,2	200/50																	
70	6	A17-M6	13,0	23,0	8,0	7,0	45,0	6,4	200/50																	
	8	A17-M8	13,0	23,0	9,0	8,0	47,0	8,4	150/50																	
	10	A17-M10	13,0	23,0	11,0	10,0	51,0	10,5	150/50																	
	10	A17-M10/19	13,0	19,0	11,0	10,0	51,0	10,5	200/50																	
	12	A17-M12	13,0	23,0	14,0	12,0	56,0	13,2	150/50																	
	14	A17-M14	13,0	25,0	15,5	12,0	57,5	15,0	150/25																	
	16	A17-M16	13,0	27,0	16,5	13,5	60,0	17,0	100/25																	
95	8	A20-M8	15,0	27,0	9,0	8,0	50,0	8,4	100/25																	
	10	A20-M10	15,0	27,0	11,0	10,0	54,0	10,5	100/25																	
	12	A20-M12	15,0	27,0	14,0	12,0	59,0	13,2	100/25																	
	14	A20-M14	15,0	27,0	15,5	12,0	60,5	15,0	100/25																	
	16	A20-M16	15,0	27,0	16,5	13,5	63,0	17,0	100/25																	
120	8	A29-M8	16,5	30,0	9,0	8,0	53,5	8,4	100/25																	
	10	A29-M10	16,5	30,0	11,0	10,0	57,5	10,5	50/25																	
	12	A29-M12	16,5	30,0	14,0	12,0	62,5	13,2	50/25																	
	14	A29-M14	16,5	30,0	15,5	12,0	64,0	15,0	100/25																	
	16	A29-M16	16,5	30,0	16,5	13,5	66,5	17,0	50/25																	
	20	A29-M20	16,5	30,0	22,0	20,0	78,5	21,0	75/25																	
150	10	A35-M10	19,2	34,2	13,0	11,0	65,5	10,5	50/25																	
	12	A35-M12	19,2	34,2	16,0	14,0	71,5	13,2	50/25																	
	14	A35-M14	19,2	34,2	18,0	16,0	75,5	15,0	50/25																	
	16	A35-M16	19,2	34,2	19,0	17,0	77,5	17,0	30/15																	
	20	A35-M20	19,2	34,2	22,0	20,0	83,5	21,0	30/15																	
185	10	A40-M10	21,0	37,5	13,0	11,0	73,0	10,5	30/15																	
	12	A40-M12	21,0	37,5	16,0	14,0	79,0	13,2	30/15																	
	14	A40-M14	21,0	37,5	18,0	16,0	83,0	15,0	30/15																	
	16	A40-M16	21,0	37,5	19,0	17,0	85,0	17,0	30/15																	
	20	A40-M20	21,0	37,5	22,0	20,0	91,0	21,0	30/15																	



These lugs are particularly recommended for use with extra flexible conductors on for instance, welding machines.
A-M series lugs are designed to suit panel applications.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility and electrolytically Tin plated to avoid oxidation.
The presence of an inspection hole facilitates full insertion of the conductor.

Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

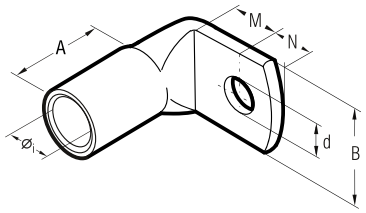
CEMBRE

A-L

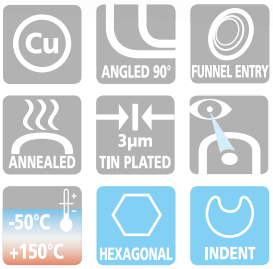
COPPER TUBE CRIMPING LUGS ANGLED 90°

for Copper conductors





cULus File no. E125401



A-L series lugs angled 90° are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals still have to perform a reliable connection, annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.

Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

Conductor Size sqmm		Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools			Hydraulic Tools																				
Low Str.	Flex*			Øi	B	M	N	A	d		HN1	HN5	HN-A25	TN70SE	TN120SE**	B15MD	B450ND-BV	HT45-E	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
6		6	A1-L6♦	3,6	11,0	7,0	6,0	8,0	6,4	2.000/100																								
10		4	A2-L4	4,6	10,0	5,0	4,0	8,0	4,3	1.500/100																								
		5	A2-L5	4,6	10,0	6,5	6,0	8,0	5,3	1.000/100																								
		6	A2-L6	4,6	11,0	7,0	6,0	8,0	6,4	1.000/100																								
		8	A2-L8	4,6	15,0	9,0	8,0	8,0	8,4	500/100																								
16		5	A3-L5	5,8	11,5	6,5	6,0	11,5	5,3	1.000/100																								
		6	A3-L6	5,8	11,5	7,0	6,0	11,5	6,4	1.000/100																								
		8	A3-L8	5,8	15,0	9,0	8,0	11,5	8,4	500/100																								
		10	A3-L10	5,8	18,0	11,0	10,0	11,5	10,5	500/100																								
25		5	A5-L5	7,0	14,0	6,5	6,0	10,5	5,3	500/100																								
		6	A5-L6	7,0	14,0	7,0	6,0	10,5	6,4	500/100																								
		8	A5-L8	7,0	15,0	9,0	8,0	10,5	8,4	500/100																								
		10	A5-L10	7,0	18,0	11,0	10,0	10,5	10,5	500/100																								
35	25	6	A7-L6	8,9	17,0	7.0	6,0	13,2	6,4	300/100																								
	35	8	A7-L8	8,9	17,0	9,0	8,0	13,2	8,4	300/100																								
		10	A7-L10	8,9	19,0	11,0	10,0	13,2	10,5	300/100																								
		12	A7-L12	8,9	21,0	14,0	12,0	13,2	13,2	300/100																								
50	35	6	A10-L6	10,0	19,0	8,0	7,0	16,5	6,4	300/100																								
	50	8	A10-L8	10,0	19,0	9,0	8,0	16,5	8,4	200/100																								
		10	A10-L10	10,0	20,0	11,5	9,5	16,5	10,5	200/50																								
		12	A10-L12	10,0	21,0	12,0	12,0	16,5	13,2	200/50																								
70	50	8	A14-L8	11,3	21,0	9,0	8,0	18,0	8,4	200/50																								
	70	10	A14-L10	11,3	21,0	11,0	10,0	18,0	10,5	100/50																								
		12	A14-L12	11,3	22,0	14,0	12,0	18,0	13,2	100/50																								
		16	A14-L16	11,3	26,0	18,0	16,0	18,0	17,0	150/50																								
95	70	8	A19-L8	13,5	25,0	9,0	8,0	22,5	8,4	100/25																								
	95	10	A19-L10	13,5	25,0	11,0	10,0	22,5	10,5	100/25																								
		12	A19-L12	13,5	25,0	14,0	12,0	22,5	13,2	100/25																								
120	95	10	A24-L10	15,2	28,5	11,0	10,0	24,0	10,5	50/25																								
	120	12	A24-L12	15,2	28,5	14,0	12,0	24,0	13,2	50/25																								
150	120	10	A30-L10	16,7	31,5	13,0	11,0	26,5	10,5	50/25																								
	150	12	A30-L12	16,7	31,5	16,0	14,0	26,5	13,2	50/25																								
185	150	10	A37-L10	19,2	35,5	13,0	11,0	29,0	10,5	30/15																								
	185	12	A37-L12	19,2	35,5	16,0	14,0	29,0	13,2	30/25																								
240	185	10	A48-L10	21,1	39,0	13,0	11,0	33,0	10,5	30/15																								
	240	12	A48-L12	21,1	39,0	16,0	14,0	33,0	13,2	20/10																								
300	240 300	12	A60-L12	23,7	44,0	20,0	14,0	40,0	13,2	20/10																								

*Actual conductor section may require a larger lug eg for 120mm² size use A30-... lug.

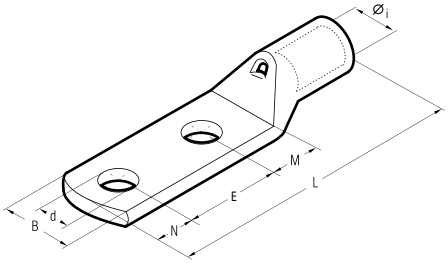
**See page 187

♦Not UL approved

COPPER TUBE CRIMPING LUGS

A-2M

double hole fixing - for Copper conductors





Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm							Quantity Box/Bag	Mechanical Tools				Hydraulic Tools																
			Øi	B	M	N	E	L	d		HN1	HN5	HN-A25	TN70SE	TN120SE	B15MD	B450ND-BV	HT45-E	B500	HT51	RH50	B500ND	HT60C	B600C	RH60C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
10	4	A2-2M4-12	4,6	10,0	5,0	4,0	12,0	36,5	4,3	100																					
	8	A2-2M8-20	4,6	15,0	11,0	11,0	20,0	57,5	8,4	100																					
16	8	A3-2M8-20	5,8	15,0	11,0	11,0	20,0	62,0	8,4	50																					
	12	A3-2M12-40	5,8	20,0	14,0	12,0	40,0	82,5	13,2	200/50																					
25	8	A5-2M8-20	7,0	15,0	9,0	11,0	20,0	59,0	8,4	400/100																					
	8	A5-2M8-24-24	7,0	15,0	24,0	11,0	24,0	78,0	8,4	300/100																					
	10	A5-2M10-24-13	7,0	18,0	13,0	11,0	24,0	67,0	10,5	300/100																					
35	10	A7-2M10	8,9	19,0	11,0	10,0	44,5	87,0	10,5	100/50																					
	10	A7-2M10-25	8,9	19,0	12,0	11,0	25,0	69,5	10,5	100																					
	12	A7-2M12	8,9	21,0	16,0	14,0	44,5	96,0	13,2	200/100																					
	12	A7-2M12-25	8,9	21,0	16,0	14,0	25,0	76,5	13,2	50																					
	12	A7-2M12-40	8,9	21,0	16,0	14,0	40,0	91,5	13,2	150/50																					
50	6	A10-2M6	10,0	19,0	8,0	11,0	44,5	89,0	6,4	50																					
	8	A10-2M8	10,0	19,0	11,0	11,0	44,5	92,0	8,4	100/50																					
	8	A10-2M8-20	10,0	19,0	11,0	11,0	20,0	67,5	8,4	100/50																					
	8	A10-2M8-22	10,0	19,0	11,0	11,0	22,0	69,5	8,4	150/50																					
	8	A10-2M8-30	10,0	19,0	11,0	11,0	30,0	77,5	8,4	150/50																					
	8	A10-2M8-24-24	10,0	19,0	24,0	11,0	24,0	84,5	8,4	150/50																					
	10	A10-2M10	10,0	20,0	13,0	11,0	44,5	94,0	10,5	100/50																					
	10	A10-2M10-24-13	10,0	19,0	13,0	11,0	24,0	73,5	10,5	150/50																					
	12	A10-2M12	10,0	21,0	16,0	14,0	44,5	100	13,2	100/50																					
	12	A10-2M12-25	10,0	21,0	16,0	14,0	25,0	80,5	13,2	50																					
70	8	A14-2M8	11,3	21,0	11,0	11,0	44,5	95,5	8,4	50																					
	8	A14-2M8-24-24	11,3	21,0	24,0	11,0	24,0	88,0	8,4	100/50																					
	10	A14-2M10	11,3	21,0	13,0	11,0	44,5	97,5	10,5	100/50																					
	10	A14-2M10-24	11,3	21,0	13,0	11,0	24,0	77,0	10,5	100/50																					
	12	A14-2M12	11,3	22,0	16,0	14,0	44,5	103,5	13,2	100/50																					
	12	A14-2M12-25	11,3	22,0	16,0	14,0	25,0	84,0	13,2	100/50																					
	12	A14-2M12-30-29	11,3	22,0	29,0	14,0	30,0	102,0	13,2	100/50																					
	12	A14-2M12-40	11,3	22,0	16,0	14,0	40,0	99,0	13,2	100/50																					
	14	A14-2M14	11,3	25,0	18,0	16,0	44,5	107,5	15,0	100/50																					
95	6	A19-2M6	13,5	25,0	10,0	11,0	44,5	101,0	6,4	25																					
	8	A19-2M8-50 S	13,5	25,0	15,0	15,0	50,0	115,5	8,4	75/25																					
	10	A19-2M10	13,5	25,0	13,0	11,0	44,5	104,0	10,5	50/25																					
	10	A19-2M10-24-13	13,5	25,0	13,0	11,0	24,0	83,5	10,5	75/25																					
	10	A19-2M10-24-26	13,5	25,0	26,0	11,0	24,0	96,5	10,5	50/25																					
	10	A19-2M10-40	13,5	25,0	13,0	11,0	40,0	99,5	10,5	75/25																					
	12	A19-2M12	13,5	25,0	16,0	14,0	44,5	110,0	13,2	75/25																					
	12	A19-2M12-25	13,5	25,0	16,0	14,0	25,0	90,5	13,2	25																					
	12	A19-2M12-30-29	13,5	25,0	29,0	14,0	30,0	108,5	13,2	50/25																					
	14	A19-2M14	13,5	25,0	18,0	16,0	44,5	114,0	15,0	100/25																					
	14	A19-2M14-25	13,5	25,0	18,0	16,0	25,0	94,5	15,0	25																					
	16	A19-2M16	13,5	25,0	19,0	17,0	44,5	116,0	17,0	50/25																					
120	8	A24-2M8-20	15,2	28,5	11,0	11,0	20,0	79,0	8,4	25																					
	8	A24-2M8-24-29	15,2	28,5	29,0	11,0	24,0	101,0	8,4	50/25																					
	10	A24-2M10	15,2	28,5	13,0	11,0	44,5	105,5	10,5	50/25																					
	10	A24-2M10-22	15,2	28,5	13,0	11,0	22,0	83,0	10,5	50/25																					
	10	A24-2M10-25/24	15,2	24,0	13,0	11,0	25,0	86,0	10,5	50/25																					
	10	A24-2M10-33.5	15,2	28,5	13,0	11,0	33,5	94,5	10,5	50/25																					
	10	A24L-2M10-30AS	15,2	28,5	13,0	11,0	30,0	91,0	10,5	25																					
	12	A24-2M12	15,2	28,5	16,0	14,0	44,5	113,0	13,2	50/25																					
	12	A24-2M12-30-29	15,2	28,5	29,0	14,0	30,0	110,0	13,2	50/25																					
	12	A24-2M12-40	15,2	28,5	16,0	14,0	40,0	107,0	13,2	50/25																					
	14	A24-2M14	15,2	28,5	18,0	16,0	44,5	115,5	15,0	50/25																					
	16	A24-2M16	15,2	28,5	19,0	17,0	44,5	117,5	17,0	50/25																					



A-2M series lugs are manufactured from electrolytic copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
The double hole fixing ensures greater mechanical stability even in the presence of electrodynamic stresses.
CEMBRE lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals still have to perform a reliable connection, annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically tinplated to avoid oxidation.
A-2M series lugs form an important part of CEMBRE crimping systems for power carrying conductors, details of the appropriate crimping tools and dies are shown opposite and in detail on page 348 to 349, whilst our technicians are always available to provide any technical advice which may be required.
The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.

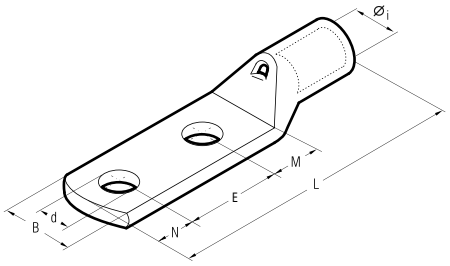
CEMBRE

A-2M

COPPER TUBE CRIMPING LUGS

double hole fixing - for Copper conductors





c UL us File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL · INDENT

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm							Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
			Øi	B	M	N	E	L	d			
150	8	A30-2M8-20	16,7	31,5	13,0	11,0	20,0	89,0	8,4	50/25	TN120SE*	HT51 · RH50 · B500 · B500ND · RH60C · HT60C · B600C · B600CND · HT81-UD · RHU81-D · HT120 and tools and heads with 130 kN crimping force · ECW-H3D · RHU520
	10	A30-2M10	16,7	31,5	13,0	11,0	44,5	113,5	10,5	50/25		
	10	A30-2M10-24-28	16,7	31,5	28,0	11,0	24,0	108,0	10,5	50/25		
	12	A30-2M12	16,7	31,5	16,0	14,0	44,5	119,5	13,2	50/25		
	12	A30-2M12-30	16,7	31,5	16,0	14,0	30,0	105,0	13,2	50/25		
	12	A30-2M12-30-29	16,7	31,5	29,0	14,0	30,0	118,0	13,2	30/15		
	12	A30-2M12-40	16,7	31,5	16,0	14,0	40,0	115,0	13,2	30/15		
	14	A30-2M14	16,7	31,5	18,0	16,0	44,5	123,5	15,0	50/25		
	14	A30-2M14-33.5	16,7	31,5	18,0	16,0	33,5	112,5	15,0	50/25		
185	10	A37-2M10	19,2	35,5	13,0	11,0	44,5	120,5	10,5	30/15		
	10	A37-2M10-25	19,2	35,5	13,0	11,0	25,0	101,0	10,5	30/15		
	12	A37-2M12	19,2	35,5	16,0	14,0	44,5	126,5	13,2	30/15		
	12	A37-2M12-32	19,2	35,5	16,0	14,0	32,0	114,0	13,2	30/15		
	12	A37-2M12-30-31	19,2	35,5	31,0	14,0	30,0	127,0	13,2	30/15		
	14	A37-2M14	19,2	35,5	18,0	16,0	44,5	130,5	15,0	30/15		
	14	A37-2M14-35	19,2	35,5	18,0	16,0	35,0	121,0	15,0	30/15		
	16	A37-2M16	19,2	35,5	19,0	17,0	44,5	132,5	17,0	30/15		
	16	A37-2M16-40	19,2	35,5	19,0	17,0	40,0	128,0	17,0	30/15		
240	10	A48-2M10	21,1	39,0	13,0	11,0	44,5	126,5	10,5	30/15		
	10	A48-2M10-20	21,1	39,0	13,0	11,0	20,0	102,0	10,5	30/15		
	10	A48-2M10-35	21,1	39,0	13,0	11,0	35,0	117,0	10,5	30/15		
	12	A48-2M12	21,1	39,0	16,0	14,0	44,5	132,5	13,2	30/15		
	12	A48-2M12-35	21,1	39,0	16,0	14,0	35,0	123,0	13,2	30/15		
	12	A48-2M12-40	21,1	39,0	16,0	14,0	40,0	128,0	13,2	30/15		
	12	A48-2M12-30-31	21,1	39,0	31,0	14,0	30,0	133,0	13,2	20/10		
	14	A48-2M14	21,1	39,0	18,0	16,0	44,5	136,5	15,0	30/15		
	14	A48-2M14-40	21,1	39,0	18,0	16,0	40,0	132,0	15,0	30/15		
	16	A48-2M16	21,1	39,0	19,0	17,0	44,5	138,5	17,0	30/15		
300	10	A60-2M10	23,7	44,0	13,0	11,0	44,5	133,5	10,5	20/5		
	12	A60-2M12	23,7	44,0	20,0	14,0	44,5	143,5	13,2	20/5		
	12	A60-2M12-40	23,7	44,0	20,0	14,0	40,0	139,0	13,2	20/5		
	12	A60-2M12-30-38	23,7	44,0	38,0	14,0	30,0	147,0	13,2	20/5		
	14	A60-2M14	23,7	44,0	22,0	16,0	44,5	147,5	15,0	20/5		
	16	A60-2M16-40	23,7	44,0	22,0	17,0	40,0	144,0	17,0	20/5		
	16	A60-2M16	23,7	44,0	22,0	17,0	44,5	148,5	17,0	20/5		
	16	A60-2M16-35	23,7	44,0	22,0	17,0	35,0	139,0	17,0	20/5		
	16	A60-2M16/36	23,7	36,0	22,0	17,0	44,5	148,5	17,0	20/5		
400	12	A80-2M12	27,0	51,0	22,0	14,0	44,5	152,5	13,2	15/5		
	14	A80-2M14	27,0	51,0	22,0	16,0	44,5	154,5	15,0	15/5		
	14	A80-2M14-40	27,0	51,0	22,0	16,0	40,0	150,0	15,0	15/5		
	16	A80-2M16	27,0	51,0	22,0	19,0	44,5	157,5	17,0	15/5		
	16	A80-2M16-40	27,0	51,0	22,0	19,0	40,0	153,0	17,0	15/5		
	16	A80-2M16/41	27,0	41,0	22,0	19,0	44,5	157,5	17,0	15/5		
	16	A80-2M16-50	27,0	51,0	22,0	19,0	50,0	163,0	17,0	5		
500	12	A100-2M12	30,3	56,5	20,0	14,0	44,5	152,0	13,2	10/1		
	14	A100-2M14-40	30,3	56,5	17,0	16,0	40,0	149,0	15,0	1		
	14	A100-2M14	30,3	56,5	17,0	16,0	44,5	153,5	15,0	10/1		
	16	A100-2M16	30,3	56,5	19,0	19,0	44,5	158,5	17,0	10/5		
630	12	A120-2M12♦	33,4	61,6	22,0	14,0	44,5	167,5	13,2	20/5		
	16	A120-2M16♦	33,4	61,6	22,0	19,0	44,5	172,5	17,0	8/1		
800	12	A160-2M12♦	38,0	72,0	20,0	14,0	44,5	176,5	13,2	9/3		
	16	A160-2M16♦	38,0	72,0	22,0	19,0	44,5	183,5	17,0	9/3		

*See page 187

♦Not UL approved

COPPER TUBE CRIMPING LUGS ANGLED 315° and 345°

double hole fixing - for Copper conductors

File no. E125401

Fig. 1

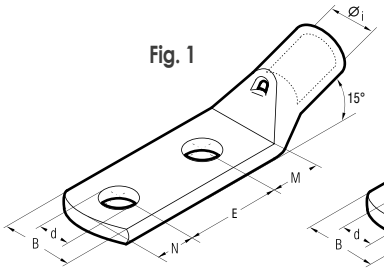
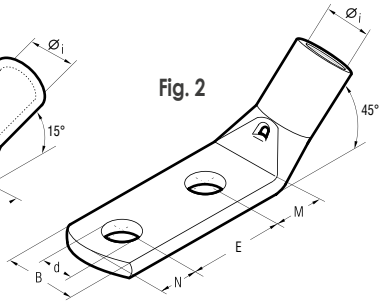


Fig. 2





Conductor Size sqmm	Ø Stud mm	Type	Fig. N.	Dimensions mm						Quantity Box/Bag	Mechanical Tools	Hydraulic Tools																		
				Øi	B	M	N	E	d		HN-A25	TN70SE	TN120SE*	HT45-E	B450ND-BV	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
25	8	A5-2M8-24-24/345	1	7,0	15,0	24,0	11,0	24,0	8,4	300/100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	A5-2M12-3029/345	1	7,0	21,0	29,0	14,0	30,0	13,2	200/100																			
50	8	A10-2M8-2424/345	1	10,0	19,0	24,0	11,0	24,0	8,4	150/50																			
70	8	A14-2M8-2424/345	1	11,3	21,0	24,0	11,0	24,0	8,4	100/50																			
	10	A14-2M102426/315	2	11,3	21,0	26,0	11,0	24,0	10,5	100/50																			
	10	A14-2M102426/345	1	11,3	21,0	26,0	11,0	24,0	10,5	100/50																			
	12	A14-2M123029/345	1	11,3	22,0	29,0	14,0	30,0	13,2	100/50																			
95	8	A19-2M8-2424/345	1	13,5	25,0	24,0	11,0	24,0	8,4	75/25																			
	10	A19-2M102426/345	1	13,5	25,0	26,0	11,0	24,0	10,5	25																			
	12	A19-2M123029/345	1	13,5	25,0	29,0	14,0	30,0	13,2	75/25																			
120	8	A24-2M8-2429/345	1	15,2	28,5	29,0	11,0	24,0	8,4	50/25																			
	10	A24-2M102429/345	1	15,2	28,5	29,0	11,0	24,0	10,5	50/25																			
	12	A24-2M123029/345	1	15,2	28,5	29,0	14,0	30,0	13,2	50/25																			
150	8	A30-2M8-2429/345	1	16,7	31,5	29,0	11,0	24,0	8,4	30/15																			
	10	A30-2M102428/345	1	16,7	31,5	28,0	11,0	24,0	10,5	50/25																			
	12	A30-2M123029/345	1	16,7	31,5	29,0	14,0	30,0	13,2	40/20																			
185	10	A37-2M10-25/315	2	19,2	35,5	13,0	11,0	25,0	10,5	15																			
	12	A37-2M123031/345	1	19,2	35,5	31,0	14,0	30,0	13,2	30/15																			
240	12	A48-2M12/345	1	21,1	39,0	16,0	14,0	44,5	13,2	20/10																			
	12	A48-2M12-30/45	1	21,1	39,0	16,0	14,0	30,0	13,2	20/10																			
	12	A48-2M123031/345	1	21,1	39,0	31,0	14,0	30,0	13,2	20/10																			
300	12	A60-2M123038/345	1	23,7	44,0	38,0	14,0	30,0	13,2	20/10																			

*See page 187



A-2M series lugs angled 315° and 345° are manufactured from electrolytic copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
The double hole fixing ensures greater mechanical stability even in the presence of electrodynamic stresses.
CEMBRE lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals still have to perform a reliable connection, annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically tinplated to avoid oxidation.
Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

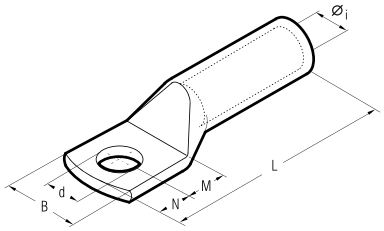
CEMBRE

2A-M

HEAVY DUTY COPPER TUBE TERMINALS

for Copper conductors





c UL us File no. E125401

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL · INDENT

The 2A-M series cable lugs are designed for heavy duty, for grounding structures and equipment both indoors and outdoors and for medium voltage applications up to 35 kV.
2A-M series terminals are made from high purity Copper tube with a purity greater than 99.9%, and are annealed.
They feature a double length barrel for enhanced electrical and mechanical performance in heavy duty applications.
The absence of an inspection hole prevents the entry of water or moisture into the crimped joint making these terminals suitable for outdoor applications.
The terminals are electrolytically Tin plated to prevent atmospheric corrosion.
Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Quantity Box/Bag	Mechanical Tools: HN5	HN-A25	TN70SE	TN120 SE*	Hydraulic Tools: B15MD	B450ND-BV	HT45-E	HT51	RH50	B500	B500ND	RH60C	HT60C	B600C	B600CND	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
16	8	2A3-M8	5,8	15,0	9,0	8,0	43,5	8,4	600/100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	10	2A3-M10	5,8	18,0	11,0	10,0	47,5	10,5	500/100																				
25	8	2A5-M8	7,0	15,0	9,0	8,0	51,0	8,4	400/100		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	10	2A5-M10	7,0	18,0	11,0	10,0	55,0	10,5	300/50																				
	12	2A5-M12	7,0	21,0	14,0	12,0	60,0	13,2	300/50																				
35	8	2A7-M8	8,9	17,0	9,0	8,0	53,0	8,4	200/50			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	10	2A7-M10	8,9	19,0	11,0	10,0	57,0	10,5	200/50																				
	12	2A7-M12	8,9	21,0	14,0	12,0	62,0	13,2	200/50																				
50	10	2A10-M10	10,0	20,0	11,0	10,0	63,0	10,5	100/50			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	2A10-M12	10,0	21,0	14,0	12,0	68,0	13,2	100/50																				
	14	2A10-M14	10,0	25,0	16,0	14,0	72,0	15,0	150/50																				
	16	2A10-M16	10,0	26,0	18,0	16,0	76,0	17,0	150/50																				
63 70	10	2A14-M10	11,3	21,0	11,0	10,0	70,0	10,5	100/50			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	2A14-M12	11,3	22,0	14,0	12,0	75,0	13,2	100/50																				
	14	2A14-M14	11,3	25,0	16,0	14,0	79,0	15,0	100/50																				
	16	2A14-M16	11,3	26,0	18,0	16,0	83,0	17,0	100/50																				
95	10	2A19-M10	13,5	25,0	11,0	10,0	76,5	10,5	50/25				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	2A19-M12	13,5	25,0	14,0	12,0	81,5	13,2	50/25																				
	14	2A19-M14	13,5	25,0	16,0	14,0	85,5	15,0	75/25																				
	16	2A19-M16	13,5	27,0	18,0	16,0	90,5	17,0	50/25																				
	20	2A19-M20	13,5	29,5	22,0	20,0	97,5	21,0	75/25																				
120 125	10	2A24-M10	15,2	28,5	11,0	10,0	82,0	10,5	30/15				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	2A24-M12	15,2	28,5	14,0	12,0	87,0	13,2	30/15																				
	14	2A24-M14	15,2	28,5	16,0	14,0	91,0	15,0	30/15																				
	16	2A24-M16	15,2	28,5	18,0	16,0	95,0	17,0	30/15																				
	20	2A24-M20	15,2	30,0	22,0	20,0	103,0	21,0	50/25																				
150	10	2A30-M10	16,7	31,5	13,0	11,0	92,0	10,5	30/15				●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	12	2A30-M12	16,7	31,5	16,0	14,0	98,0	13,2	30/15																				
	14	2A30-M14	16,7	31,5	18,0	16,0	102,0	15,0	30/15																				
	16	2A30-M16	16,7	31,5	19,0	17,0	104,0	17,0	30/15																				
	20	2A30-M20	16,7	31,5	22,0	20,0	110,0	21,0	30/15																				
185	12	2A37-M12	19,2	35,5	16,0	14,0	108,0	13,2	20/10					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	14	2A37-M14	19,2	35,5	18,0	16,0	112,0	15,0	30/15																				
	16	2A37-M16	19,2	35,5	19,0	17,0	114,0	17,0	30/15																				
	20	2A37-M20	19,2	35,5	22,0	20,0	120,0	21,0	30/15																				
240	12	2A48-M12	21,1	39,0	16,0	14,0	109,0	13,2	20/5					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	14	2A48-M14	21,1	39,0	18,0	16,0	113,0	15,0	20/5																				
	16	2A48-M16	21,1	39,0	19,0	17,0	115,0	17,0	20/5																				
	20	2A48-M20	21,1	39,0	22,0	20,0	121,0	21,0	25/5																				
300	12	2A60-M12	23,7	44,0	20,0	14,0	129,5	13,2	15/5						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	14	2A60-M14	23,7	44,0	22,0	16,0	133,5	15,0	15/5																				
	16	2A60-M16	23,7	44,0	22,0	19,0	136,5	17,0	15/5																				
	20	2A60-M20	23,7	44,0	24,0	23,0	142,5	21,0	15/5																				
400	12	2A80-M12	27,0	51,0	22,0	19,0	140,0	13,2	15/5							●	●	●	●	●	●	●	●	●	●	●	●	●	●
	14	2A80-M14	27,0	51,0	22,0	19,0	140,0	15,0	10/5																				
	16	2A80-M16	27,0	51,0	22,0	19,0	140,0	17,0	10/5																				
	20	2A80-M20	27,0	51,0	24,0	23,0	146,0	21,0	15/5																				
500	16	2A100-M16	30,3	56,5	22,0	19,0	141,0	17,0	10/1																			●	●
	20	2A100-M20	30,3	56,5	24,0	23,0	147,0	21,0	10/1																				
630	16	2A120-M16♦	33,4	61,5	22,0	19,0	159,0	17,0	20/1																			●	●
	20	2A120-M20♦	33,4	61,5	24,0	23,0	165,0	21,0	20/1																				
800	20	2A160-M20♦	38,0	72,0	24,0	23,0	187,0	21,0	12/1																				●
1000	20	2A200-M20♦	44,0	80,0	24,0	23,0	202,0	21,0	6/1																				

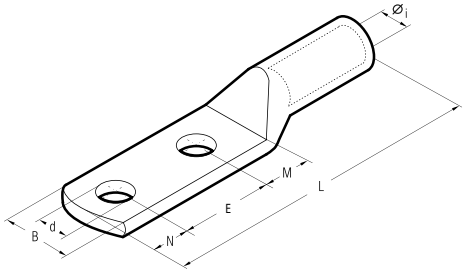
*See page 187

♦Not UL approved

HEAVY DUTY COPPER TUBE TERMINALS

2A-2M

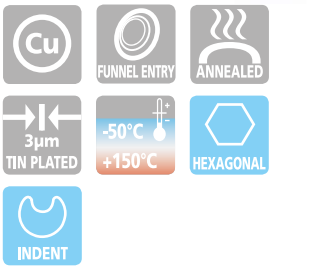
double hole fixing - for Copper conductors





Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm							Quantity Box/Bag	Mechanical Tools	Hydraulic Tools									
			Øi	B	M	N	E	L	d		TN70SE	TN120 SE*	HT45-E B450ND-BV	HT51	RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
50	12	**2A10-2M12**	10,0	21,0	14,0	12,0	44,5	112,5	13,2	*75/25*										
70	12	**2A14-2M12**	11,3	22,0	16,0	14,0	44,5	123,5	13,2	*50/25*										
	14	**2A14-2M14**	11,3	25,0	18,0	16,0	44,5	127,5	15,0	*75/25*										
95	12	**2A19-2M12**	13,5	25,0	16,0	14,0	44,5	128,0	13,2	*50/25*										
	14	**2A19-2M14**	13,5	25,0	18,0	16,0	44,5	132,0	15,0	*50/25*										
120	12	**2A24-2M12**	15,2	28,5	16,0	14,0	44,5	135,5	13,2	*50/25*										
	14	**2A24-2M14**	15,2	28,5	18,0	16,0	44,5	139,5	15,0	*50/25*										
	16	**2A24-2M16**	15,2	28,5	18,0	17,0	44,5	140,5	17,0	*50/25*										
150	12	**2A30-2M12**	16,7	31,5	16,0	14,0	44,5	142,5	13,2	*30/15*										
	14	**2A30-2M14**	16,7	31,5	18,0	16,0	44,5	146,5	15,0	*30/15*										
185	12	**2A37-2M12**	19,2	35,5	16,0	14,0	44,5	152,5	13,2	*30/15*										
	14	**2A37-2M14**	19,2	35,5	18,0	16,0	44,5	156,5	15,0	*30/15*										
	16	**2A37-2M16**	19,2	35,5	19,0	17,0	44,5	158,5	17,0	*30/15*										
240	12	**2A48-2M12**	21,1	39,0	16,0	14,0	44,5	153,5	13,2	*20/5*										
	14	**2A48-2M14**	21,1	39,0	18,0	16,0	44,5	157,5	15,0	*25/5*										
	16	**2A48-2M16**	21,1	39,0	19,0	17,0	44,5	159,5	17,0	*25/5*										
300	12	**2A60-2M12**	23,7	44,0	20,0	14,0	44,5	174,0	13,2	*15/5*										
	14	**2A60-2M14**	23,7	44,0	22,0	16,0	44,5	178,0	15,0	*20/5*										
	16	**2A60-2M16**	23,7	44,0	19,0	17,0	44,5	176,0	17,0	*20/5*										
400	12	**2A80-2M12**	27,0	51,0	20,0	14,0	44,5	177,5	13,2	*10/5*										
	14	**2A80-2M14**	27,0	51,0	22,0	16,0	44,5	181,5	15,0	*10/5*										
	16	**2A80-2M16**	27,0	51,0	22,0	19,0	44,5	184,5	17,0	*15/5*										
500	12	**2A100-2M12**	30,3	56,5	20,0	14,0	44,5	178,5	13,2	*10/5*										
	14	**2A100-2M14**	30,3	56,5	22,0	16,0	44,5	182,5	15,0	*10/1*										
	16	**2A100-2M16**	30,3	56,5	22,0	19,0	44,5	185,5	17,0	*8/1*										
630	12	**2A120-2M12♦**	33,4	61,5	20,0	14,0	44,5	196,5	13,2	*15/1*										
	14	**2A120-2M14♦**	33,4	61,5	22,0	19,0	44,5	200,5	15,0	*15/1*										
	16	**2A120-2M16♦**	33,4	61,5	22,0	19,0	44,5	203,5	17,0	*15/1*										
800	14	**2A160-2M14♦**	38,0	72,0	22,0	19,0	44,5	225,5	15,0	*10/1*										
	16	**2A160-2M16♦**	38,0	72,0	24,0	19,0	44,5	227,5	17,0	*10/1*										
1000	12	**2A200-2M12♦**	44,0	80,0	20,0	14,0	44,5	233,5	13,2	*6/2*										
	16	**2A200-2M16♦**	44,0	80,0	22,0	19,0	44,5	240,5	17,0	*5/1*										
	20	**2A200-2M20♦**	44,0	80,0	24,0	23,0	44,5	246,5	21,0	*6/2*										

*See page 187



The 2A-2M series cable lugs are designed for heavy duty, for grounding structures and equipment both indoors and outdoors and for medium voltage applications up to 35 kV.
2A-2M series terminals are made from high purity Copper tube with a purity greater than 99.9%, and are annealed.
They feature a double length barrel for enhanced electrical and mechanical performance in heavy duty applications.
The double hole fixing ensures greater mechanical stability even in the presence of electrodynamic stresses.
The absence of an inspection hole prevents the entry of water or moisture into the crimped joint making these terminals suitable for outdoor applications.
The terminals are electrolytically Tin plated to prevent atmospheric corrosion.
Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

*Not UL approved

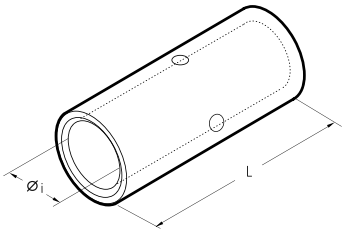
CEMBRE

L-M

THROUGH CONNECTORS

for Copper conductors





Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL · INDENT

L-M range of connectors are designed for jointing low voltage conductors.
Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimension as A-M series lugs: L-M connectors are annealed and electrolytically Tin plated.
They feature an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning.
Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

Conductor Size sqmm		Type	Dimensions mm		Quantity Box/Bag	Mechanical Tools				Hydraulic Tools										
Low Stranded	Flexible		Øi	L		HN1	HN5	HN-A25	TN70SE	TN120 SE*	B15MD	HT45-E B450ND-BV	HT51	RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
0,25÷1,5	0,25÷1,5	L03-M♦	1,8	15	5.000/100															
1,5÷2,5	1,5÷2,5	L06-M♦	2,4	15	4.000/100															
4÷6	4÷6	L1-M	3,6	22	2.000/100															
10	10	L2-M	4,6	25	1.000/100															
16	16	L3-M	5,8	27	500/100															
25	25	L5-M	7,0	29	500/100															
35	25÷35	L7-M	8,9	33	400/100															
50	35÷50	L10-M	10,0	37	200/50															
70	50÷70	L14-M	11,3	39	200/50															
95	70÷95	L19-M	13,5	43	100/25															
120	95÷120	L24-M	15,2	47	75/25															
150	120÷150	L30-M	16,7	58	50/25															
185	150÷185	L37-M	19,2	64	30/15															
240	185÷240	L48-M	21,1	75	20/10															
300	240÷300	L60-M	23,7	90	20/10															
400	300÷400	L80-M	27,0	94	15/5															
500	400÷500	L100-M	30,3	98	12/1															
630	500÷630	L120-M♦	33,4	105	10/1															
800	600	L160-M♦	38,0	112	6/1															
1000	800	L200-M♦	44,0	120	6/1															

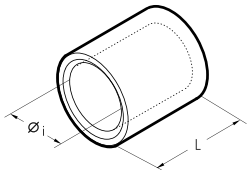
*See page 187

L-P

PARALLEL CONNECTORS

for Copper conductors





Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL · INDENT

Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimensions as A-M series lugs, L-P connectors are annealed and electrolytically Tin plated.
They feature an internal taper to ease the introduction of the conductor.
Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

Total Conductor Size sqmm		Type	Dimensions mm		Quantity Box/Bag	Mechanical Tools				Hydraulic Tools										
Low Stranded	Flexible		Øi	L		HN1	HN5	HN-A25	TN70SE	TN120 SE*	B15MD	HT45-E B450ND-BV	HT51	RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
0,25÷1,5	0,25÷1,5	L03-P	1,8	6,0	8.000/100															
1,5÷2,5	1,5÷2,5	L06-P	2,4	6,0	5.000/100															
4÷6	4÷6	L1-P	3,6	9,0	3.000/100															
10	10	L2-P	4,6	10,5	2.000/100															
16	16	L3-P	5,8	11,5	1.500/100															
25	25	L5-P	7,0	13,0	1.000/100															
35	25÷35	L7-P	8,9	14,0	500/100															
50	35÷50	L10-P	10,0	16,0	500/100															
70	50÷70	L14-P	11,3	18,0	500/100															
95	70÷95	L19-P	13,5	19,0	200/50															
120	95÷120	L24-P	15,2	22,0	200/50															
150	120÷150	L30-P	16,7	26,5	100/50															
185	150÷185	L37-P	19,2	26,5	100/50															
240	185÷240	L48-P	21,1	34,0	60/15															
300	240÷300	L60-P	23,7	43,0	50/25															

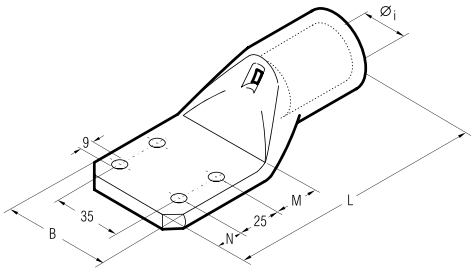
*See page 187

♦Not UL approved

COPPER TUBE LUGS 4-ESI FIXING

A-4ESI

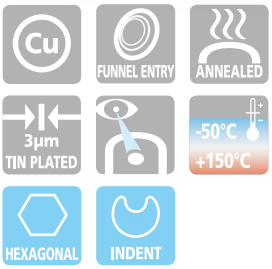
for Copper conductors





Conductor Size sqmm	Type	Dimensions mm					Quantity Box/Bag	Hydraulic Tools							
		Ø	B	M	N	L		HT51 B550	RH 50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
185	A 37-4ESI	19,2	61,0	20	15	124	20/10							
240	A 48-4ESI	21,1	61,0	20	15	128	20/10							
300	A 60-4ESI	23,7	61,0	20	15	133	15/5							
400	A 80-4ESI	27,0	61,0	20	15	134	15/5							
500	A 100-4ESI	30,3	61,0	20	15	139	10/5							
630	A 120-4ESI	33,4	61,6	20	15	144	10/5							
800	A 160-4ESI	38,0	61,0	20	15	158	8/1							





A-4ESI series lugs are made from electrolytic Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The four hole stud fixing in accordance with E.A. specifications ensures compatibility with most transformer fixing arrangements.

Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

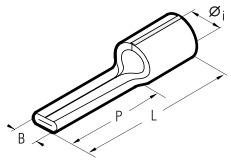
CEMBRE

A-P

UNINSULATED PIN CONNECTORS

for Copper conductors





Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -50°C +150°C | INDENT | HEXAGONAL

Conductor Size sqmm		Type	Dimensions mm				Quantity Box/Bag	Mechanical Tools					Hydraulic Tools						
Low Stranded	Flex		Øi	B	P	L		HN1	HN5	HN-A25	TN70SE	TN120SE	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	10	**A2-P12**	4,8	4,3	14,5	23,5	*1.500/100*											
16	16	**A3-P14**	5,9	5,5	18,0	28,0	*1.000/100*											
25	25	**A5-P16**	7,0	7,0	20,3	32,0	*500/100*											
35	25÷35	**A7-P20**	8,9	8,0	24,5	39,0	*500/100*											
50	35÷50	**A10-P25**	10,0	9,5	26,0	45,0	*250/50*											
70	50÷70	**A14-P30**	11,5	11,0	31,0	55,0	*200/50*											

A-P series pin connectors are designed to terminate conductors into contact blocks.
They are manufactured from Copper strip with a purity greater than 99.9%, rolled, brazed and Tin plated.

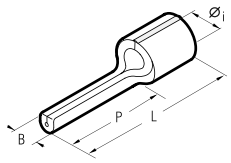
Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

A-PR

UNINSULATED ROUND PIN CONNECTORS

for Copper conductors





Cu-ETP | Brazed SEAM | ANNEALED | 3µm TIN PLATED | -50°C +150°C | INDENT | HEXAGONAL

Conductor Size sqmm		Type	Dimensions mm				Quantity Box/Bag	Mechanical Tools					Hydraulic Tools						
Low Stranded	Flex		Øi	B	P	L		HN1	HN5	HN-A25	TN70SE	TN120SE	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
16	16	**A3-P22R**	5,9	4,0	22,0	32,0	*1.000/100*											
25	25	**A5-P22R**	7,0	4,0	22,0	33,7	*500/100*											

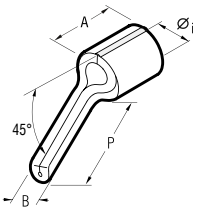
A-PR series pin connectors are designed to terminate conductors into contact blocks.
They are manufactured from Copper strip with a purity greater than 99.9%, rolled, brazed and Tin plated.

Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

UNINSULATED ROUND PIN CONNECTORS ANGLED 45°

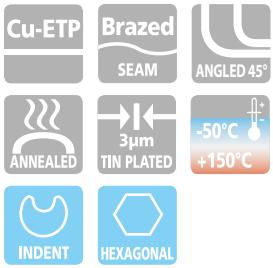
A-PR/45

for Copper conductors





Conductor Size sqmm		Type	Dimensions mm				Quantity Box/Bag	Mechanical Tools				Hydraulic Tools						
Low Stranded	Flex		Øi	B	P	A		HN1	HN5	HN-A25	TN70SE	TN120SE	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
16	16	A3-P22R/45	5,9	4,0	22,0	10,0	1.000/100											
25	25	A5-P22R/45	7,0	4,0	22,0	11,7	500/100											



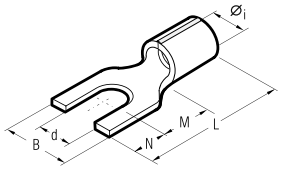
A-PR/45 series pin connectors are designed to terminate conductors into contact blocks.
They are manufactured from Copper strip with a purity greater than 99.9%, rolled, brazed and Tin plated.

Details of the appropriate crimping tools and dies are shown on pages 348 to 349.

UNINSULATED FORK TERMINALS

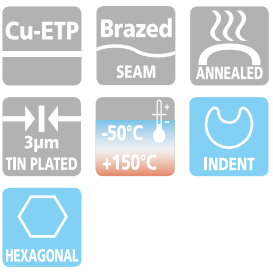
A-U

for Copper conductors





Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Mechanical Tools				Hydraulic Tools						
			Øi	B	M	N	L	d		HNN1	HNN5	TN70SE	TN120SE	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	4	A2-U4	4,8	9,8	7,5	7,0	23,5	4,3	1.500/100										
	5	A2-U5	4,8	11,5	7,5	7,0	23,5	5,3	1.500/100										
16	4	A3-U4	5,9	10,0	10,0	8,0	28,0	4,3	1.000/100										
	5	A3-U5	5,9	11,5	10,0	8,0	28,0	5,3	1.000/100										



A-U series fork terminals are designed to terminate conductors into contact blocks.
Made from electrolytic Copper strip with a purity greater than 99.9%, rolled and Tin plated.

The seam is brazed to provide uniform mechanical strength.
The terminal barrel is rifled to enhance electrical contact and to improve mechanical strength.
Recommended crimping tools are shown on pages 348 to 349.

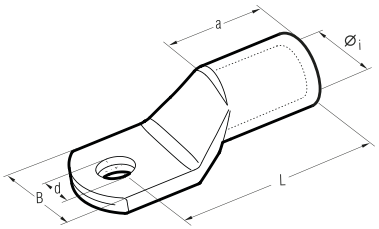
CEMBRE

DR-N

COPPER TUBE CRIMPING LUGS ACCORDING TO DIN 46235

for Copper conductors





NEW · Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · DIN 46235 · -50°C +150°C · HEXAGONAL

DR-N series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, and designed to obtain high electrical conductivity combined with the mechanical strength required to resist vibration and pull out.
CEMBRE lugs are annealed and Tin plated for improved surface protection.
The annealing process optimises the structural features of the material allowing easier crimping and greater resistance to mechanical stresses.
Dimensions are according to DIN 46235.
The barrel entrance of the lug is chamfered to allow easy conductor insertion, while its length facilitates precise positioning in the crimping die.

Each lug is marked with:
- CEMBRE logo and part code.
- conductor type and csa (mm²).
- stud Ø (mm).
- crimping die code

Details of the appropriate crimping tools and dies are shown on page 358.

Consult us for special requirements

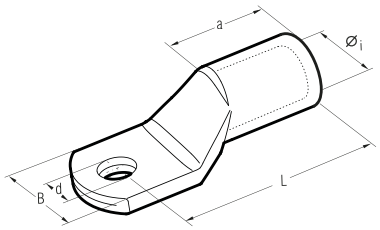
Conductor Size sqmm	Ø Stud mm	Type	Code	Dimensions mm Øi	d	L	B	a	Quantity Box/Bag	Mechanical Tools: HN-D25	TNE-D50	TNE-D120	TN60C	Hydraulic Tools: B15MD	HT45-E B450ND-BV	HT51 RH50 RHM50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
6	5	DR6-5N	5	3,8	5,3	25,0	8,5	10,0	800/100												
	6	DR6-6N	5	3,8	6,4	25,0	8,5	10,0	800/100												
	8	DR6-8N*	5	3,8	8,4	25,0	12,5	10,0	800/100												
10	5	DR10-5N	6	4,5	5,3	28,0	9,0	13,0	800/100												
	6	DR10-6N	6	4,5	6,4	28,0	9,0	13,0	800/100												
	8	DR10-8N*	6	4,5	8,4	28,0	13,0	13,0	800/100												
	10	DR10-10N*	6	4,5	10,5	28,0	17,0	13,0	800/100												
16	6	DR16-6N	8	5,5	6,4	37,0	13,0	20,0	400/100												
	8	DR16-8N	8	5,5	8,4	37,0	13,0	20,0	400/100												
	10	DR16-10N	8	5,5	10,5	37,0	17,0	20,0	400/100												
	12	DR16-12N*	8	5,5	13,0	39,0	19,0	20,0	400/100												
25	6	DR25-6N	10	7,0	6,4	39,0	14,0	20,0	400/100												
	8	DR25-8N	10	7,0	8,4	39,0	16,0	20,0	300/100												
	10	DR25-10N	10	7,0	10,5	39,0	17,0	20,0	200/100												
	12	DR25-12N	10	7,0	13,0	40,0	19,0	20,0	200/100												
35	6	DR35-6N*	12	8,2	6,4	41,0	17,0	20,0	200/50												
	8	DR35-8N	12	8,2	8,4	43,0	17,0	20,0	200/50												
	10	DR35-10N	12	8,2	10,5	43,0	19,0	20,0	200/50												
	12	DR35-12N	12	8,2	13,0	43,0	21,0	20,0	200/50												
	16	DR35-16N*	12	8,2	17,0	47,0	26,0	20,0	200/50												
50	6	DR50-6N*	14	10,0	6,4	53,0	20,0	28,0	100/25												
	8	DR50-8N	14	10,0	8,4	53,0	20,0	28,0	100/25												
	10	DR50-10N	14	10,0	10,5	53,0	22,0	28,0	100/25												
	12	DR50-12N	14	10,0	13,0	53,0	24,0	28,0	100/25												
	16	DR50-16N	14	10,0	17,0	53,0	28,0	28,0	100/25												
70	8	DR70-8N	16	11,5	8,4	56,0	24,0	28,0	50/25												
	10	DR70-10N	16	11,5	10,5	56,0	24,0	28,0	50/25												
	12	DR70-12N	16	11,5	13,0	56,0	24,0	28,0	50/25												
	16	DR70-16N	16	11,5	17,0	56,0	30,0	28,0	50/25												
	20	DR70-20N*	16	11,5	21,0	64,0	30,0	28,0	50/25												
95	8	DR95-8N*	18	13,5	8,4	66,0	28,0	35,0	50/25												
	10	DR95-10N	18	13,5	10,5	66,0	28,0	35,0	50/25												
	12	DR95-12N	18	13,5	13,0	66,0	28,0	35,0	50/25												
	16	DR95-16N	18	13,5	17,0	66,0	32,0	35,0	50/25												
	20	DR95-20N*	18	13,5	21,0	74,0	32,0	35,0	50/25												
120	8	DR120-8N*	20	15,5	8,4	71,0	30,0	35,0	20/10												
	10	DR120-10N	20	15,5	10,5	71,0	32,0	35,0	20/10												
	12	DR120-12N	20	15,5	13,0	71,0	32,0	35,0	20/10												
	16	DR120-16N	20	15,5	17,0	71,0	32,0	36,0	20/10												
	20	DR120-20N	20	15,5	21,0	71,0	38,0	36,0	20/10												
150	10	DR150-10N	22	17,0	10,5	79,0	34,0	39,0	30/15												
	12	DR150-12N	22	17,0	13,0	79,0	34,0	39,0	30/15												
	16	DR150-16N	22	17,0	17,0	79,0	34,0	39,0	30/15												
	20	DR150-20N	22	17,0	21,0	79,0	40,0	39,0	30/15												
185	10	DR185-10N	25	19,0	10,5	83,0	37,0	40,0	25/5												
	12	DR185-12N	25	19,0	13,0	83,0	37,0	40,0	25/5												
	16	DR185-16N	25	19,0	17,0	83,0	37,0	40,0	25/5												
	20	DR185-20N	25	19,0	21,0	83,0	40,0	40,0	25/5												
240	10	DR240-10N*	28	21,5	10,5	92,0	42,0	46,0	20/10												
	12	DR240-12N	28	21,5	13,0	92,0	42,0	46,0	20/10												
	16	DR240-16N	28	21,5	17,0	93,0	42,0	46,0	20/10												
	20	DR240-20N	28	21,5	21,0	93,0	45,0	46,0	20/10												

** Dimensions of the tube according to DIN 46235; Stud hole not included within the standard.*

COPPER TUBE CRIMPING LUGS ACCORDING TO DIN 46235

for Copper conductors

DR-N



Conductor Size sqmm	Ø Stud mm	Type	Code	Dimensions mm Øi	d	L	B	a	Quantity Box/Bag	Mechanical Tools TN60C	Hydraulic Tools RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
300	12	DR300-12N*	32	24,5	13,0	101,0	48,0	51,0	10/5						
	16	DR300-16N	32	24,5	17,0	101,0	48,0	51,0	10/5						
	20	DR300-20N	32	24,5	21,0	101,0	48,0	51,0	10/5						
400	12	DR400-12N*♦	38	27,5	13,0	116,0	55,0	70,0	5/1						
	16	DR400-16N♦	38	27,5	17,0	116,0	55,0	70,0	5/1						
	20	DR400-20N♦	38	27,5	21,0	116,0	55,0	70,0	5/1						
500	12	DR500-12N*♦	42	31,0	13,0	125,0	60,0	70,0	5/1						
	16	DR500-16N*♦	42	31,0	17,0	125,0	60,0	70,0	5/1						
	20	DR500-20N♦	42	31,0	21,0	125,0	60,0	70,0	5/1						
625	12	DR625-12N♦	44	34,5	13,0	136,0	60,0	80,0	5/1						
	16	DR625-16N♦	44	34,5	17,0	136,0	60,0	80,0	5/1						
	20	DR625-20N♦	44	34,5	21,0	136,0	60,0	80,0	5/1						
800	20	DR800-20N♦	52	40,0	21,0	166,0	75,0	100,0	5/1						
1.000	20	DR1000-20N♦	58	44,0	21,0	166,0	85,0	100,0	5/1						

** Dimensions of the tube according to DIN 46235; Stud hole not included within the standard.*

♦Not UL approved

NEW · Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · DIN 46235 · -50°C +150°C · HEXAGONAL

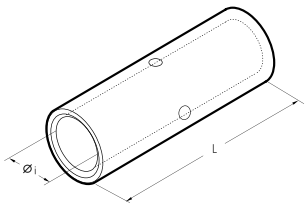
Consult us for special requirements

CRIMPING THROUGH CONNECTORS ACCORDING TO DIN 46267 T.1

for Copper conductors

DSV





Conductor Size sqmm	Type	Code	Dimensions mm Øi	L	Quantity Box/Bag	Mechanical Tools HN-D25	TNE-D50	TNE-D120	TN60C	Hydraulic Tools B15MD	HT45-E B450ND-BV	HT51	RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
6	DSV6	5	3,7	30	1.200/100													
10	DSV10	6	4,5	30	1.200/100													
16	DSV16	8	5,5	50	400/100													
25	DSV25	10	7,0	50	200/100													
35	DSV35	12	8,2	50	200/100													
50	DSV50	14	10,0	56	200/50													
70	DSV70	16	11,5	56	100/50													
95	DSV95	18	13,5	70	100/50													
120	DSV120	20	15,5	70	50/25													
150	DSV150	22	17,0	80	50/25													
185	DSV185	25	19,0	85	25/25													
240	DSV240	28	21,5	90	15/15													
300	DSV300	32	24,5	100	10/5													
400	DSV400	38	27,5	150	10/5													
500	DSV500	42	31,0	160	5/5													
625	DSV625	44	34,5	160	5/5													
800	DSV800	52	40,0	200	5/5													
1.000	DSV1000	58	44,0	200	5/5													

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · DIN 46267T.1 · -50°C +150°C · HEXAGONAL

DSV series through connectors are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and surface protected by tin plating.
Internal and external dimensions match those of DR series lugs.
Chamfered ends and a central stop provide easy and correct insertion of the conductor.
Details of the appropriate crimping tools and dies are shown on page 358.

Consult us for special requirements

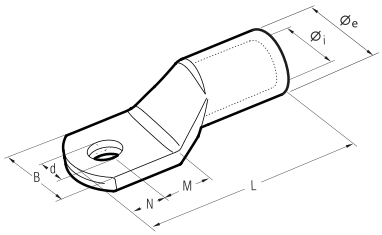
CEMBRE

HR-N

COPPER TUBE CRIMPING LUGS

for Copper conductors





c UL us File no. E125401

NEW · Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL

HR-N series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, and designed to obtain high electrical conductivity combined with the mechanical strength required to resist vibration and pull out.
CEMBRE lugs are annealed and Tin plated for improved surface protection.
The annealing process optimises the structural features of the material allowing easier crimping and greater resistance to mechanical stresses.
The barrel entrance of the lug is chamfered to allow easy conductor insertion, while its length facilitates precise positioning in the crimping die.

Each lug is marked with:
- CEMBRE logo and part code.
- conductor type and csa (mm^2).
- stud Ø (mm).
- crimping die code

Details of the appropriate crimping tools and dies are shown on page 358.

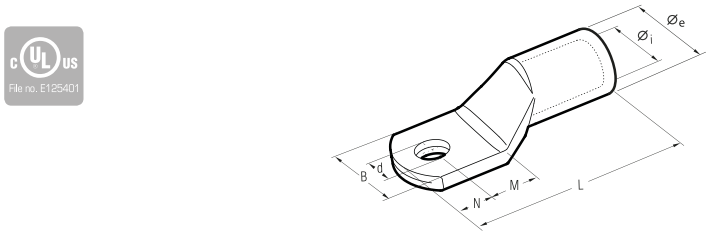
Consult us for special requirements

| Conductor Size sqmm | Ø Stud mm | Type | Dimensions mm | | | | | | | Quantity Box/Bag | Mechanical Tools | | | | | Hydraulic Tools | | | | | | |

COPPER TUBE CRIMPING LUGS

for Copper conductors

HR-N



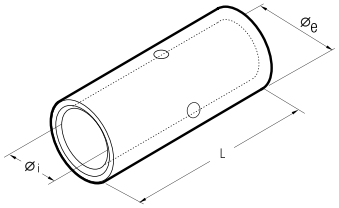
Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	Øe	B	M	N	L	d	Quantity Box/Bag	Mechanical Tools: TN60C	Hydraulic Tools: HT51	RH50 RHM50 B500 HT60C B600C B500ND RH60C B600CND	HT61 RH61 B600 HT81-UD RHU81D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
185	10	HR185-10N	19,0	24,0	35,0	18,0	18,0	83,0	10,5	30/10						
	12	HR185-12N	19,0	24,0	35,0	18,0	18,0	83,0	13,2	30/10						
	14	HR185-14N	19,0	24,0	35,0	18,0	18,0	83,0	15,0	30/10						
	16	HR185-16N	19,0	24,0	35,0	18,0	18,0	83,0	17,0	30/10						
	20	HR185-20N	19,0	24,0	39,0	22,0	22,0	91,0	21,0	30/10						
240	10	HR240-10N	21,0	26,0	39,0	19,0	21,5	93,5	10,5	30/10						
	12	HR240-12N	21,0	26,0	39,0	19,0	21,5	93,5	13,2	30/10						
	14	HR240-14N	21,0	26,0	39,0	19,0	21,5	93,5	15,0	30/10						
	16	HR240-16N	21,0	26,0	39,0	19,0	21,5	93,5	17,0	30/10						
	20	HR240-20N	21,0	26,0	39,0	19,0	21,5	93,5	21,0	30/10						
300	12	HR300-12N	23,5	29,5	44,0	21,0	24,0	111,0	13,2	10/5						
	14	HR300-14N	23,5	29,5	44,0	21,0	24,0	111,0	15,0	10/5						
	16	HR300-16N	23,5	29,5	44,0	21,0	24,0	111,0	17,0	10/5						
	20	HR300-20N	23,5	29,5	44,0	21,0	24,0	111,0	21,0	10/5						

CRIMPING THROUGH CONNECTORS

for Copper conductors

HSV





Conductor Size sqmm	Type	Dimensions mm Øi	Øe	L	Quantity Box/Bag	Mechanical Tools: HN1	HN-5	HN-H25	TNE-H50	TNE-H120	TN60C	Hydraulic Tools: B15MD	HT45-E B450ND-BV	HT51	RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
10	HSV10	4,5	7,0	30	1200/100														
16	HSV16	5,5	8,5	35	800/100														
25	HSV25	7,0	10,0	40	400/100														
35	HSV35	8,5	12,0	45	200/50														
50	HSV50	10,0	14,0	50	200/50														
70	HSV70	12,0	16,5	55	160/40														
95	HSV95	13,5	18,0	60	80/10														
120	HSV120	15,0	19,5	65	80/10														
150	HSV150	16,5	21,0	70	80/10														
185	HSV185	19,0	24,0	75	40/20														
240	HSV240	21,0	26,0	85	40/20														
300	HSV300	23,5	29,5	100	20/10														

HSV series through connectors are manufactured from electrolytic Copper tube with a purity greater than 99.9%, annealed and surface protected by tin plating.
Internal and external dimensions match those of HR series lugs.
Chamfered ends and a central stop provide easy and correct insertion of the conductor.
Details of the appropriate crimping tools and dies are shown on page 358.

Consult us for special requirements

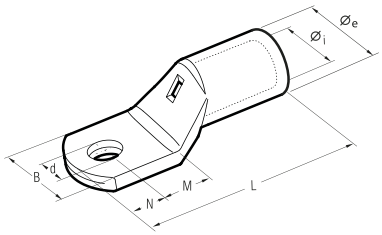
CEMBRE

HRS-N

COPPER TUBE CRIMPING LUGS

for Copper conductors - with inspection hole





c UL us File no. E125401

NEW · Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL

HRS-N series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, and designed to obtain high electrical conductivity combined with the mechanical strength required to resist vibration and pull out.
CEMBRE lugs are annealed and Tin plated for improved surface protection.
The annealing process optimises the structural features of the material allowing easier crimping and greater resistance to mechanical stresses.
The barrel entrance of the lug is chamfered to allow easy conductor insertion, while its length facilitates precise positioning in the crimping die.

Each lug is marked with:
- CEMBRE logo and part code.
- conductor type and csa (mm^2).
- stud Ø (mm).
- crimping die code

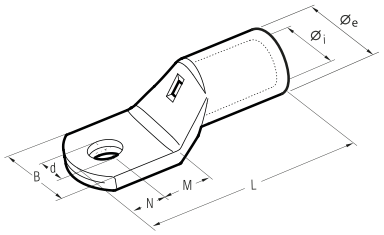
Details of the appropriate crimping tools and dies are shown on page 358.

Consult us for special requirements

| Conductor Size sqmm | Ø Stud mm | Type | Dimensions mm | | | | | | | Quantity Box/Bag | Mechanical Tools | | | | | Hydraulic Tools | | | | | | |

COPPER TUBE CRIMPING LUGS

for Copper conductors - with inspection hole



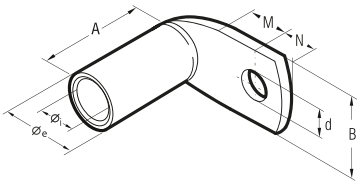
Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm							Quantity Box/Bag	Mechanical Tools	Hydraulic Tools				
			Øi	Øe	B	M	N	L	d		TN60C	HT51	RH50 RHM50 B500 B500ND RH60C HT60C B600C B600CND	HT61 RH61 B600 HT81-UD RHU81D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
185	10	**HRS185-10N**	19,0	24,0	35,0	18,0	18,0	83,0	10,5	30/10						
	12	**HRS185-12N**	19,0	24,0	35,0	18,0	18,0	83,0	13,2	30/10						
	14	**HRS185-14N**	19,0	24,0	35,0	18,0	18,0	83,0	15,0	30/10						
	16	**HRS185-16N**	19,0	24,0	35,0	18,0	18,0	83,0	17,0	30/10						
	20	**HRS185-20N**	19,0	24,0	39,0	22,0	22,0	91,0	21,0	30/10						
240	10	**HRS240-10N**	21,0	26,0	39,0	19,0	21,5	93,5	10,5	30/10						
	12	**HRS240-12N**	21,0	26,0	39,0	19,0	21,5	93,5	13,2	30/10						
	14	**HRS240-14N**	21,0	26,0	39,0	19,0	21,5	93,5	15,0	30/10						
	16	**HRS240-16N**	21,0	26,0	39,0	19,0	21,5	93,5	17,0	30/10						
	20	**HRS240-20N**	21,0	26,0	39,0	19,0	21,5	93,5	21,0	30/10						
300	12	**HRS300-12N**	23,5	29,5	44,0	21,0	24,0	111,0	13,2	10/5						
	14	**HRS300-14N**	23,5	29,5	44,0	21,0	24,0	111,0	15,0	10/5						
	16	**HRS300-16N**	23,5	29,5	44,0	21,0	24,0	111,0	17,0	10/5						
	20	**HRS300-20N**	23,5	29,5	44,0	21,0	24,0	111,0	21,0	10/5						

HR-LN

COPPER TUBE CRIMPING LUGS ANGLED 90°

for Copper conductors





NEW · Cu · ANGLED 90° · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · -50°C +150°C · HEXAGONAL

HR-LN series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, and designed to obtain high electrical conductivity combined with the mechanical strength required to resist vibration and pull out.
CEMBRE lugs are annealed and Tin plated for improved surface protection.
The annealing process optimises the structural features of the material allowing easier crimping and greater resistance to mechanical stresses.
The barrel entrance of the lug is chamfered to allow easy conductor insertion, while its length facilitates precise positioning in the crimping die.

Each lug is marked with:
- CEMBRE logo and part code.
- conductor type and csa (mm²).
- stud Ø (mm).
- crimping die code

Details of the appropriate crimping tools and dies are shown on page 358.

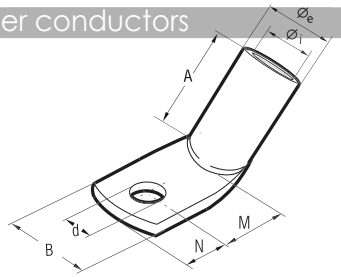
Consult us for special requirements

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	Øe	B	M	N	A	d	Quantity Box/Bag	Mechanical Tools: HN1	HN5	HN-H25	TNE-H50	TNE-H120	TN60C	Hydraulic Tools: B15MD	HT45-E B450ND-BV	HT51D RH50 RHM50 B500 B500ND RH60C HT60C B600C B600CND	HT61 RH61 B600 HT81-UD RHU81D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D
6	4	HR6-L4N	3,5	6,5	10,0	8,5	7,5	10,5	4,3	400/100												
	5	HR6-L5N	3,5	6,5	10,0	8,5	7,5	10,5	5,3	400/100												
	6	HR6-L6N	3,5	6,5	11,5	8,5	7,5	10,5	6,4	400/100												
	8	HR6-L8N	3,5	6,5	15,0	11,0	10,0	10,5	8,4	400/100												
	10	HR6-L10N	3,5	6,5	17,0	13,0	12,0	10,5	10,5	400/100												
	12	HR6-L12N	3,5	6,5	19,0	13,5	13,5	10,5	13,2	400/100												
10	4	HR10-L4N	4,5	7,0	12,0	8,5	7,5	10,5	4,3	400/100												
	5	HR10-L5N	4,5	7,0	12,0	8,5	7,5	10,5	5,3	400/100												
	6	HR10-L6N	4,5	7,0	12,0	8,5	7,5	10,5	6,4	400/100												
	8	HR10-L8N	4,5	7,0	15,0	11,0	10,0	10,5	8,4	400/100												
	10	HR10-L10N	4,5	7,0	17,0	13,0	12,0	10,5	10,5	400/100												
	12	HR10-L12N	4,5	7,0	19,0	16,0	13,5	10,5	13,2	400/100												
16	5	HR16-L5N	5,5	8,5	12,0	8,5	7,5	12,0	5,3	400/100												
	6	HR16-L6N	5,5	8,5	12,0	8,5	7,5	12,0	6,4	400/100												
	8	HR16-L8N	5,5	8,5	15,0	11,0	10,0	12,0	8,4	400/100												
	10	HR16-L10N	5,5	8,5	17,0	13,0	12,0	12,0	10,5	400/100												
	12	HR16-L12N	5,5	8,5	19,0	16,0	13,5	12,0	13,2	400/100												
25	5	HR25-L5N	7,0	10,0	14,0	9,0	7,5	13,0	5,3	400/100												
	6	HR25-L6N	7,0	10,0	14,0	9,0	7,5	13,0	6,4	400/100												
	8	HR25-L8N	7,0	10,0	15,0	11,0	10,0	13,0	8,4	400/100												
	10	HR25-L10N	7,0	10,0	18,0	13,0	12,0	13,0	10,5	400/100												
	12	HR25-L12N	7,0	10,0	19,0	14,0	13,0	13,0	13,2	400/100												
35	6	HR35-L6N	8,5	12,0	17,0	9,0	7,5	15,5	6,4	200/50												
	8	HR35-L8N	8,5	12,0	17,0	11,0	10,0	15,5	8,4	200/50												
	10	HR35-L10N	8,5	12,0	19,0	13,0	12,0	15,5	10,5	200/50												
	12	HR35-L12N	8,5	12,0	21,0	14,0	13,0	15,5	13,2	200/50												
	16	HR35-L16N	8,5	12,0	26,0	18,5	16,0	15,5	17,0	200/50												
50	6	HR50-L6N	10,0	14,0	20,0	11,0	10,0	18,5	6,4	200/50												
	8	HR50-L8N	10,0	14,0	20,0	11,0	10,0	18,5	8,4	200/50												
	10	HR50-L10N	10,0	14,0	20,0	13,0	12,0	18,5	10,5	200/50												
	12	HR50-L12N	10,0	14,0	21,0	14,0	13,0	18,5	13,2	200/50												
	16	HR50-L16N	10,0	14,0	26,0	18,5	16,0	18,5	17,0	200/50												
	20	HR50-L20N	10,0	14,0	30,0	20,0	19,0	18,5	21,0	200/50												
70	6	HR70-L6N	12,0	16,5	21,0	12,0	10,0	20,0	6,4	80/20												
	8	HR70-L8N	12,0	16,5	21,0	12,0	10,0	20,0	8,4	80/20												
	10	HR70-L10N	12,0	16,5	21,0	13,0	12,0	20,0	10,5	80/20												
	12	HR70-L12N	12,0	16,5	21,0	14,0	13,0	20,0	13,2	80/20												
	16	HR70-L16N	12,0	16,5	28,0	18,2	16,0	20,0	17,0	80/20												
	20	HR70-L20N	12,0	16,5	30,5	21,5	19,0	20,0	21,0	80/20												
95	8	HR95-L8N	13,5	18,0	26,0	12,0	10,0	24,5	8,4	80/20												
	10	HR95-L10N	13,5	18,0	26,0	13,0	12,0	24,5	10,5	80/20												
	12	HR95-L12N	13,5	18,0	26,0	14,0	13,0	24,5	13,2	80/20												
	16	HR95-L16N	13,5	18,0	28,0	19,0	16,0	24,5	17,0	80/20												
	20	HR95-L20N	13,5	18,0	31,0	23,0	21,0	24,5	21,0	80/20												
120	8	HR120-L8N	15,0	19,5	29,0	14,0	14,0	25,5	8,4	80/20												
	10	HR120-L10N	15,0	19,5	29,0	14,0	14,0	25,5	10,5	80/20												
	12	HR120-L12N	15,0	19,5	29,0	14,0	14,0	25,5	13,2	80/20												
	16	HR120-L16N	15,0	19,5	31,0	15,0	16,0	25,5	17,0	80/20												
	20	HR120-L20N	15,0	19,5	36,0	23,0	21,0	25,5	21,0	80/20												
150	8	HR150-L8N	16,5	21,0	31,0	14,0	14,0	28,5	8,4	40/10												
	10	HR150-L10N	16,5	21,0	31,0	14,0	14,0	28,5	10,5	40/10												
	12	HR150-L12N	16,5	21,0	31,0	15,0	15,0	28,5	13,2	40/10												
	16	HR150-L16N	16,5	21,0	31,0	19,0	16,0	28,5	17,0	40/10												
	20	HR150-L20N	16,5	21,0	36,0	23,0	21,0	28,5	21,0	40/10												
185	10	HR185-L10N	19,0	24,0	35,0	19,0	16,0	31,5	10,5	40/10												
	12	HR185-L12N	19,0	24,0	35,0	19,0	16,0	31,5	13,2	40/10												
	16	HR185-L16N	19,0	24,0	35,0	19,0	16,0	31,5	17,0	40/10												
	20	HR185-L20N	19,0	24,0	37,0	23,0	21,0	31,5	21,0	40/10												
240	10	HR240-L10N	21,0	26,0	39,0	19,0	16,0	36,5	10,5	20/10												
	12	HR240-L12N	21,0	26,0	39,0	19,0	16,0	36,5	13,2	20/10												
	16	HR240-L16N	21,0	26,0	39,0	19,0	16,0	36,5	17,0	20/10												
	20	HR240-L20N	21,0	26,0	39,0	23,0	21,0	36,5	21,0	20/10												
300	12	HR300-L12N	23,5	29,5	44,0	24,0	24,0	45,0	13,2	10/5												
	16	HR300-L16N	23,5	29,5	44,0	24,0	24,0	45,0	17,0	10/5												
	20	HR300-L20N	23,5	29,5	44,0	24,0	24,0	45,0	21,0	10/5												

COPPER TUBE CRIMPING LUGS ANGLED 45°

for Copper conductors

HR-/45N





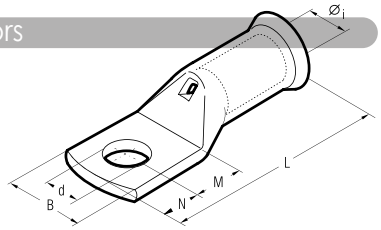
| Conductor Size sqmm | Ø Stud mm | Type | Dimensions mm | | | | | | | Quantity Box/Bag | Mechanical Tools | | | | | | | | Hydraulic Tools | | | | | | | |

T-M

COPPER TUBE CRIMPING LUGS ACCORDING TO NF C 20-130

for Copper conductors





Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · NF C 20-130 · -50°C +150°C · HEXAGONAL · INDENT

T-M series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, lugs still have to provide a reliable connection and annealing plays a vital role in avoiding cracking or breaks between the barrel and palm.
The insertion of the cable is facilitated by a tulip out.
The presence of an inspection hole facilitates full insertion of the conductor, whilst the barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.
Our technicians are always available to provide any technical advice which may be required.
The enclosed table is only indicative of the range and many variations in stud fixing and palm lengths are also available.

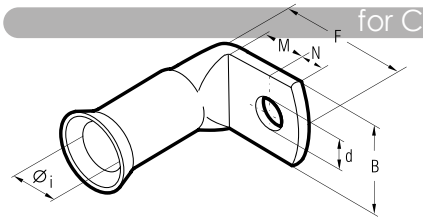
Details of the appropriate crimping tools and dies are shown on page 360.

| Conductor Size sqmm | | Ø Stud mm | Type | Dimensions mm | | | | | | Quantity Box/Bag | Mechanical Tools | | | | Hydraulic Tools | | | | | |

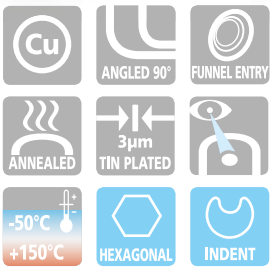
COPPER TUBE CRIMPING LUGS ANGLED 90°

for Copper conductors

T-L







Conductor Size sqmm Low Str.	Conductor Size sqmm Flex	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	F*	d	Quantity Box/Bag
4÷6		6	T6-L6	3,3	13,0	9,0	8,0	23,6	6,4	800/100
10		5	T10-L5	4,2	11,0	6,0	6,0	20,3	5,2	800/100
		6	T10-L6	4,2	11,0	8,0	8,0	24,8	6,4	800/100
		8	T10-L8	4,2	14,0	11,0	10,0	28,8	8,3	800/100
16		6	T16-L6	5,3	12,0	9,0	8,0	26,5	6,4	400/100
		8	T16-L8	5,3	16,0	11,0	10,0	30,5	8,3	400/100
		10	T16-L10	5,3	16,0	14,0	12,0	35,5	10,3	400/100
25		6	T25-L6	6,6	13,0	9,0	8,0	28,0	6,4	400/100
		8	T25-L8	6,6	16,0	11,0	10,0	32,0	8,3	400/100
		10	T25-L10	6,6	16,0	14,0	12,0	37,0	10,3	400/100
35		6	T35-L6	7,9	15,0	9,0	8,0	29,5	6,4	400/50
		8	T35-L8	7,9	17,0	11,0	10,0	33,5	8,3	200/50
		10	T35-L10	7,9	17,0	14,0	12,0	38,5	10,3	200/50
50		6	T50-L6	9,2	18,0	9,0	8,0	31,5	6,4	100/25
		8	T50-L8	9,2	18,0	10,0	10,0	35,5	8,3	200/25
		10	T50-L10	9,2	18,0	14,0	12,0	40,5	10,3	100/25
70		10	T70-L8	11,0	21,0	11,0	10,0	38,5	8,3	100/25
		10	T70-L10	11,0	21,0	14,0	12,0	43,5	10,3	100/25
		12	T70-L12	11,0	21,0	18,0	16,0	51,5	12,8	100/25
95		8	T95-L8	13,1	23,0	11,0	10,0	41,0	8,3	100/25
		10	T95-L10	13,1	23,0	14,0	12,0	46,0	10,3	100/25
		12	T95-L12	13,1	23,0	18,0	16,0	54,0	12,8	100/25
120		10	T120-L10	14,5	28,0	14,0	12,0	48,0	10,3	50/25
		12	T120-L12	14,5	28,0	18,0	16,0	56,0	12,8	50/25
150		10	T150-L10	16,2	30,0	14,0	12,0	50,0	10,3	40/10
		12	T150-L12	16,2	30,0	18,0	16,0	58,0	12,8	40/10
185		10	T185-L10	18,0	33,0	14,0	12,0	52,0	10,3	40/10

Mechanical Tools: HN1, HN5, HN-T25, TNE-T50, TNE-T120

Hydraulic Tools: B15MD, HT45-E B450ND-BV, HT51 RH50 B500 B500ND, RH60C HT60C B600C B600CND, HT81-UD RHU81-D, HT120 and tools and heads with 130 kN crimping force, ECW-H3D, RHU520

T-L series lugs angled 90° are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
T-L series lugs having the same dimensions and characteristics as T-M series lugs.

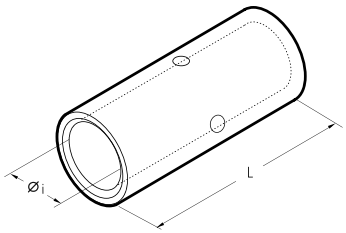
F* = indicative dimension

Details of the appropriate crimping tools and dies are shown on page 360.

CRIMPING THROUGH CONNECTORS

for Copper conductors

L-T







Total Conductor Size sqmm Low Stranded	Total Conductor Size sqmm Flexible	Type	Dimensions mm Øi	Dimensions mm L	Quantity Box/Bag
4	4	L4-T	2,7	22	2.000/100
4÷6	4÷6	L6-T	3,3	25	1.500/100
10	10	L10-T	4,2	27	1.000/100
16	16	L16-T	5,3	31	500/100
25	25	L25-T	6,6	35	500/100
35	25	L35-T	7,9	37	250/50
50	35	L50-T	9,2	45	250/50
70	50	L70-T	11,0	50	200/50
95	70	L95-T	13,1	56	100/25
120	95	L120-T	14,5	60	100/25
150	120	L150-T	16,2	66	50/25
185	150	L185-T	18,0	75	50/25
240	185	L240-T	20,6	80	30/15
300	240	L300-T	23,1	90	20/10
400	300	L400-T	26,1	100	20/5

Mechanical Tools: HN1, HN5, HN-A25, TNE-T50, TNE-T120

Hydraulic Tools: B15MD, HT45-E B450ND-BV, HT51 RH50 B500 B500ND, RH60C HT60C B600C B600CND, HT81-UD RHU81-D, HT120 and tools and heads with 130 kN crimping force, ECW-H3D, RHU520

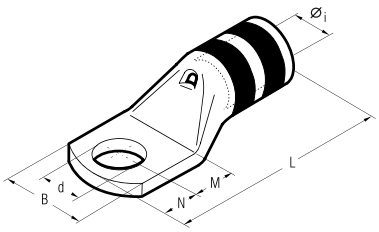
Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimensions as T-M series lugs, L-T connectors are annealed and electrolytically Tin plated. They feature an internal taper to ease the introduction of the conductor.
Details of the appropriate crimping tools and dies are shown on page 360.

CEMBRE

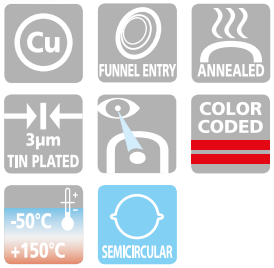
COLOUR CODED COPPER CRIMPING LUGS

for Copper conductors





c UL us File no. E125401



C series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.
The presence of an inspection hole facilitates full insertion of the conductor. The barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.
The tongue is clearly marked with wire size and die index for CEMBRE tools.
UL listed for US and Canada per UL486A up to 35 KV.
C series lugs are an important part of CEMBRE crimping systems for power carrying conductors.

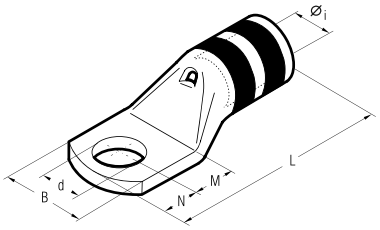
Details of the appropriate crimping tools and dies are shown on page 359.

CEMBRE technicians are available to provide technical advice as required.
Please consult CEMBRE for products not listed.

Cond. Size sqmm	Conductor AWG Size	Conductor AWG Navy	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Colour Code	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
10	8	23	4	C8-8	4,6	10,0	5,0	4,0	22,5	4,3	RED	600/50	TN70SE TN120SE	B15MD HT51 RH50 B500 B500ND HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
			5	C8-10	4,6	10,0	6,5	6,0	26,0	5,3		600/50		
			6	C8-14	4,6	11,0	7,0	6,0	26,5	6,4		600/50		
			8	C8-516	4,6	15,0	9,0	8,0	30,5	8,4		400/50		
			10	C8-38	4,6	18,0	11,0	10,0	34,5	10,5		600/50		
			12	C8-12	4,6	19,0	14,0	12,0	39,5	13,2		600/50		
16	6		4	C6-8	5,8	11,5	5,0	4,0	25,5	4,3	BLUE	600/50		
			5	C6-10	5,8	11,5	6,5	6,0	29,0	5,3		600/50		
			6	C6-14	5,8	11,5	7,0	6,0	29,5	6,4		600/50		
			8	C6-516	5,8	15,0	9,0	8,0	33,5	8,4		600/50		
			10	C6-38	5,8	18,0	11,0	10,0	37,5	10,5		600/50		
			12	C6-12	5,8	20,0	14,0	12,0	43,5	13,2		400/50		
25	4	40	4	C4-8	6,2	12,5	5,0	4,0	25,5	4,3	GREY	600/50		
			5	C4-10	6,2	12,5	6,5	6,0	29,0	5,3		600/50		
			6	C4-14	6,2	12,5	7,0	6,0	29,5	6,4		600/50		
			8	C4-516	6,2	15,0	9,0	8,0	33,5	8,4		600/50		
			10	C4-38	6,2	18,0	11,0	10,0	37,5	10,5		400/50		
			12	C4-12	6,2	20,0	14,0	12,0	42,5	13,2		400/50		
	3	50	4	C3-8	7,0	14,0	5,0	4,0	28,0	4,3	WHITE	600/50		
			5	C3-10	7,0	14,0	6,5	6,0	31,5	5,3		600/50		
			6	C3-14	7,0	14,0	7,0	6,0	32,0	6,4		600/50		
			8	C3-516	7,0	15,0	9,0	8,0	36,0	8,4		600/50		
			10	C3-38	7,0	18,0	11,0	10,0	40,0	10,5		400/50		
			12	C3-12	7,0	21,0	14,0	12,0	45,0	13,2		400/50		
35	2	60	5	C2-10	7,6	17,0	6,5	6,0	33,0	5,3	BROWN	400/50		
			6	C2-14	7,6	17,0	7,0	6,0	33,5	6,4		400/50		
			8	C2-516	7,6	17,0	9,0	8,0	37,5	8,4		400/50		
			10	C2-38	7,6	19,0	11,0	10,0	41,5	10,5		400/50		
			12	C2-12	7,6	21,0	14,0	12,0	46,5	13,2		200/50		
	1	75	6	C1-14	8,9	17,0	7,0	6,0	34,5	6,4	GREEN	400/50		
			8	C1-516	8,9	17,0	9,0	8,0	38,5	8,4		400/50		
			10	C1-38	8,9	19,0	11,0	10,0	42,5	10,5		200/50		
			12	C1-12	8,9	21,0	14,0	12,0	47,5	13,2		200/50		
50	1/0	100	6	C1/0-14	10,0	19,0	8,0	7,0	40,5	6,4	PINK	200/25		
			8	C1/0-516	10,0	19,0	9,0	8,0	42,5	8,4		200/25		
			10	C1/0-38	10,0	20,0	11,0	10,0	46,5	10,5		200/25		
			12	C1/0-12	10,0	21,0	14,0	12,0	51,5	13,2		200/25		
			14	C1/0-916	10,0	25,0	16,0	14,0	55,5	15,0		200/25		
			16	C1/0-58	10,0	26,0	18,0	16,0	59,5	17,0		200/25		
70	2/0	125	6	C2/0-14	11,3	21,0	8,0	7,0	44,0	6,4	BLACK	200/25		
			8	C2/0-516	11,3	21,0	9,0	8,0	46,0	8,4		200/25		
			10	C2/0-38	11,3	21,0	11,0	10,0	50,0	10,5		200/25		
			12	C2/0-12	11,3	22,0	14,0	12,0	55,0	13,2		200/25		
			14	C2/0-916	11,3	25,0	16,0	14,0	59,0	15,0		100/25		
			16	C2/0-58	11,3	26,0	18,0	16,0	63,0	17,0		100/25		
			20	C2/0-34	11,3	29,5	22,0	20,0	75,0	21,0		100/25		
95	3/0	150	6	C3/0-14	12,4	23,0	8,0	7,0	45,0	6,4	ORANGE	200/25		
			8	C3/0-516	12,4	23,0	9,0	8,0	47,0	8,4		100/25		
			10	C3/0-38	12,4	23,0	11,0	10,0	51,0	10,5		100/25		
			12	C3/0-12	12,4	24,0	14,0	12,0	56,0	13,2		100/25		
			14	C3/0-916	12,4	27,0	16,0	14,0	60,0	15,0		100/25		
			16	C3/0-58	12,4	28,0	18,0	16,0	64,0	17,0		100/25		
			20	C3/0-34	12,4	31,5	22,0	20,0	72,0	21,0		100/25		

COLOUR CODED COPPER CRIMPING LUGS

for Copper conductors



Cond. Size sqmm	Sez. Cond. AWG Size	Sez. Cond. AWG Navy	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Colour Code	Quantity Box/Bag
	4/0	200	6	C4/0-14	13,5	25,0	8,0	7,0	50,5	6,4	PURPLE	100/25
			8	C4/0-516	13,5	25,0	9,0	8,0	52,5	8,4		100/25
			10	C4/0-38	13,5	25,0	11,0	10,0	56,5	10,5		100/25
			12	C4/0-12	13,5	25,0	14,0	12,0	61,5	13,2		100/25
			14	C4/0-916	13,5	25,0	16,0	14,0	65,5	15,0		100/25
			16	C4/0-58	13,5	27,0	18,0	16,0	69,5	17,0		50/25
			20	C4/0-34	13,5	29,5	22,0	20,0	77,5	21,0		50/25
120	250 MCM	250	6	C250-14	15,2	28,5	8,0	7,0	52,0	6,4	YELLOW	100/25
			8	C250-516	15,2	28,5	9,0	8,0	54,0	8,4		100/25
			10	C250-38	15,2	28,5	11,0	10,0	58,0	10,5		100/25
			12	C250-12	15,2	28,5	14,0	12,0	63,0	13,2		50/25
			14	C250-916	15,2	28,5	16,0	14,0	67,0	15,0		50/25
			16	C250-58	15,2	28,5	18,0	16,0	71,0	17,0		50/25
			20	C250-34	15,2	30,0	22,0	20,0	79,0	21,0		50/25
			22	C250-78	15,2	32,0	24,0	23,0	84,0	23,0		50/25
150	300 MCM	300	8	C300-516	16,7	31,5	13,0	11,0	69,0	8,4	WHITE	40/10
			10	C300-38	16,7	31,5	13,0	11,0	69,0	10,5		40/10
			12	C300-12	16,7	31,5	16,0	14,0	75,0	13,2		40/10
			14	C300-916	16,7	31,5	18,0	16,0	79,0	15,0		40/10
			16	C300-58	16,7	31,5	19,0	17,0	81,0	17,0		40/10
			20	C300-34	16,7	31,5	22,0	20,0	87,0	21,0		40/10
			22	C300-78	16,7	31,5	24,0	23,0	92,0	23,0		40/10
185	350 MCM	350	10	C350-38	17,6	33,0	13,0	11,0	70,5	10,5	RED	40/20
			12	C350-12	17,6	33,0	16,0	14,0	76,5	13,2		40/20
			14	C350-916	17,6	33,0	18,0	16,0	80,5	15,0		40/20
			16	C350-58	17,6	33,0	19,0	17,0	82,5	17,0		40/20
			20	C350-34	17,6	33,0	22,0	20,0	88,5	21,0		40/20
			22	C350-78	17,6	37,0	24,0	23,0	93,5	23,0		30/15
	400 MCM	400	10	C400-38	19,2	35,5	13,0	11,0	76,0	10,5	BLUE	40/20
			12	C400-12	19,2	35,5	16,0	14,0	82,0	13,2		40/20
			14	C400-916	19,2	35,5	18,0	16,0	86,0	15,0		40/20
			16	C400-58	19,2	35,5	19,0	17,0	88,0	17,0		40/20
			20	C400-34	19,2	35,5	22,0	20,0	94,0	21,0		40/20
			22	C400-78	19,2	35,5	24,0	23,0	99,0	23,0		40/20
240	500 MCM		10	C500-38	21,1	39,0	13,0	11,0	82,0	10,5	BROWN	30/15
			12	C500-12	21,1	39,0	16,0	14,0	88,0	13,2		30/15
			14	C500-916	21,1	39,0	18,0	16,0	92,0	15,0		30/15
			16	C500-58	21,1	39,0	19,0	17,0	94,0	17,0		30/15
			20	C500-34	21,1	39,0	22,0	20,0	100,0	21,0		20/10
			22	C500-78	21,1	39,0	24,0	23,0	105,0	23,0		20/10
300	600 MCM		12	C600-12	23,7	44,0	20,0	14,0	99,0	13,2	GREEN	20/10
			14	C600-916	23,7	44,0	22,0	16,0	103,0	15,0		20/10
			16	C600-58	23,7	44,0	22,0	19,0	106,0	17,0		20/10
			20	C600-34	23,7	44,0	24,0	23,0	112	21,0		10/5
			22	C600-78	23,7	44,0	24,0	23,0	112,0	23,0		10/5
	750 MCM		12	C750-12	26,0	48,0	22,0	19,0	113,0	13,2	BLACK	10/5
			16	C750-58	26,0	48,0	22,0	19,0	113,0	17,0		10/5
			20	C750-34	26,0	48,0	24,0	23,0	119,0	21,0		10/5
			22	C750-78	26,0	48,0	24,0	23,0	119,0	23,0		10/5

Mechanical Tools: TN120SE

Hydraulic Tools: HT51 RH50 B500 B500ND; HT120 and tools and heads with 130 kN crimping force; ECW-H3D; RHU520

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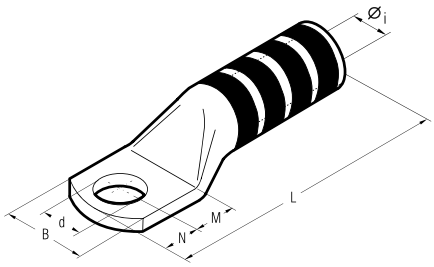
CEMBRE

CL

COLOUR CODED COPPER CRIMPING LUGS

one hole long barrel - for Copper conductors





Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · COLOR CODED · -50°C +150°C · SEMICIRCULAR

CL series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%, for use in heavy duty applications.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility which is an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.
The long barrel provides better mechanical pull-out strenght.
Lugs are electrolytically Tin plated to avoid oxidation.
The tongue is clearly marked with wire size and die index for CEMBRE tools.
UL listed for US and Canada per UL486A up to 35 KV.
CL series lugs are an important part of CEMBRE crimping systems for power carrying conductors.

Details of the appropriate crimping tools and dies are shown on page 359.

CEMBRE technicians are available to provide technical advice as required.
Please consult CEMBRE for products not listed.

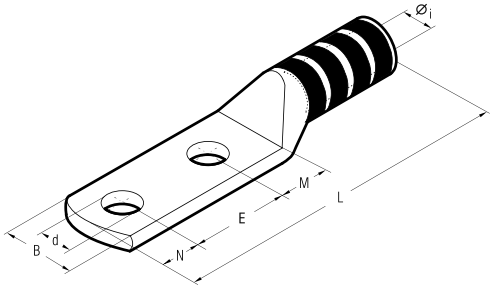
Cond. Size sqmm	Conductor AWG Size	Conductor AWG Navy	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Colour Code	Quantity Box/Bag	Mechanical Tools TN70SE	Mechanical Tools TN120SE	Hydraulic Tools B15MD	HT51 RH50 B500 B500ND HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
10	8	23	5	**CL8-10**	4,6	10,0	6,5	6,0	37,5	5,3	RED	400/50				
			6	**CL8-14**	4,6	11,0	7,0	6,0	38,0	6,4		400/50				
			10	**CL8-38**	4,6	18,0	11,0	10,0	46,0	10,5		400/50				
16	6		5	**CL6-10**	5,8	11,5	6,5	6,0	40,0	5,3	BLUE	400/50				
			6	**CL6-14**	5,8	11,5	7,0	6,0	40,5	6,4		400/50				
			12	**CL6-12**	5,8	20,0	14,0	12,0	53,5	13,2		400/50				
25	4	40	5	**CL4-10**	6,2	12,5	6,5	6,0	47,0	5,3	GREY	400/50				
			6	**CL4-14**	6,2	12,5	7,0	6,0	47,5	6,4		400/50				
			10	**CL4-38**	6,2	18,0	11,0	10,0	55,5	10,5		400/50				
			12	**CL4-12**	6,2	20,0	14,0	12,0	60,5	13,2		400/50				
	3	50	6	**CL3-14**	7,0	14,0	7,0	6,0	47,5	6,4	WHITE	200/100				
			8	**CL3-516**	7,0	15,0	9,0	8,0	51,5	8,4		200/100				
			10	**CL3-38**	7,0	18,0	11,0	10,0	55,5	10,5		200/100				
			12	**CL3-12**	7,0	21,0	14,0	12,0	60,5	13,2		200/100				
35	2	60	5	**CL2-10**	7,6	17,0	6,5	6,0	46,0	5,3	BROWN	200/50				
			6	**CL2-14**	7,6	17,0	7,0	6,0	46,5	6,4		200/50				
			8	**CL2-516**	7,6	17,0	9,0	8,0	50,5	8,4		200/50				
			12	**CL2-12**	7,6	21,0	14,0	12,0	59,5	13,2		200/50				
	1	75	5	**CL1-10**	8,9	17,0	6,5	6,0	48,0	5,3	GREEN	200/50				
			8	**CL1-516**	8,9	17,0	9,0	8,0	52,5	8,4		200/50				
			12	**CL1-12**	8,9	21,0	14,0	12,0	61,5	13,2		200/50				
50	1/0	100	5	**CL1/0-10**	10,0	19,0	8,0	7,0	53,5	5,3	PINK	100/50				
			8	**CL1/0-516**	10,0	19,0	9,0	8,0	55,5	8,4		100/50				
			10	**CL1/0-38**	10,0	20,0	11,0	10,0	59,5	10,5		100/50				
			12	**CL1/0-12**	10,0	21,0	14,0	12,0	64,5	13,2		100/50				
70	2/0	125	10	**CL2/0-38**	11,3	21,0	11,0	10,0	67,5	10,5	BLACK	100/50				
			12	**CL2/0-12**	11,3	22,0	14,0	12,0	72,5	13,2		100/50				
95	3/0	150	12	**CL3/0-12**	12,4	24,0	14,0	12,0	71,5	13,2	ORANGE	100/50				
	4/0	200	10	**CL4/0-38**	13,5	25,0	11,0	10,0	73,5	10,5	PURPLE	60/30				
			12	**CL4/0-12**	13,5	25,0	14,0	12,0	78,5	13,2		60/30				
120	250 MCM	250	12	**CL250-12**	15,2	28,5	14,0	12,0	84,0	13,2	YELLOW	50/25				
150	300 MCM	300	12	**CL300-12**	16,7	31,5	16,0	14,0	98,0	13,2	WHITE	30/15				
185	350 MCM	350	12	**CL350-12**	17,6	33,0	16,0	14,0	98,0	13,2	RED	30/15				
	400 MCM	400	12	**CL400-12**	19,2	35,5	16,0	14,0	107,0	13,2	BLUE	20/10				
			16	**CL400-58**	19,2	35,5	19,0	17,0	113,0	17,0		20/10				
240	500 MCM		12	**CL500-12**	21,1	39,0	16,0	14,0	108,0	13,2	BROWN	20/10				
			16	**CL500-58**	21,1	39,0	19,0	17,0	114,0	17,0		20/10				
300	600 MCM		12	**CL600-12**	23,7	44,0	20,0	14,0	128,5	13,2	GREEN	10/5				
			16	**CL600-58**	23,7	44,0	22,0	19,0	135,5	17,0		10/5				
	750 MCM		12	**CL750-12**	26,0	48,0	22,0	19,0	140,5	13,2	BLACK	10/5				
			16	**CL750-58**	26,0	48,0	22,0	19,0	140,5	17,0		10/5				

Also available with inspection hole.
In case of order, add suffix IH to the part number.
E.g.: CL250IH-12

COLOUR CODED COPPER CRIMPING LUGS

CL-D

double hole long barrel - for Copper conductors





Cond. Size sqmm	Conductor AWG Size	Conductor AWG Navy	Ø Stud mm	Type	Dimensions mm Øi	B	M	E	N	L	d	Colour Code	Quantity Box/Bag
10	8	23	6	CL8-D14	4,6	11,0	7,0	16,0	6,0	53,0	6,4	RED	400/50
			6	CL8-D141	4,6	11,0	7,0	19,0	6,0	56,0	6,4		400/50
			10	CL8-D38	4,6	18,0	11,0	25,5	10,0	70,5	10,5		400/50
16	6		6	CL6-D14	5,8	11,5	7,0	16,0	6,0	54,5	6,4	BLUE	400/50
			6	CL6-D141	5,8	11,5	7,0	19,0	6,0	57,5	6,4		400/50
			10	CL6-D38	5,8	18,0	11,0	25,5	10,0	72,0	10,5		400/50
			12	CL6-DN	5,8	20,0	14,0	44,5	12,0	96,0	13,2		400/50
25	4	40	6	CL4-D14	6,2	12,5	7,0	16,0	6,0	62,0	6,4	GREY	200/50
			6	CL4-D141	6,2	12,5	7,0	19,0	6,0	65,0	6,4		200/50
			10	CL4-D38	6,2	18,0	11,0	25,5	10,0	79,5	10,5		200/50
			12	CL4-DN	6,2	20,0	14,0	44,5	12,0	103,5	13,2		200/50
	3	50	10	CL3-D38	7,0	18,0	11,0	25,5	10,0	79,5	10,5	WHITE	200/50
			12	CL3-DN	7,0	21,0	14,0	44,5	12,0	103,5	13,2		200/50
35	2	60	6	CL2-D14	7,6	17,0	7,0	16,0	6,0	61,0	6,4	BROWN	200/50
			6	CL2-D141	7,6	17,0	7,0	19,0	6,0	64,0	6,4		200/50
			10	CL2-D38	7,6	19,0	11,0	25,5	10,0	78,5	10,5		100/50
			10	CL2-DN38	7,6	19,0	11,0	44,5	10,0	97,5	10,5		100/50
			12	CL2-DN	7,6	21,0	14,0	44,5	12,0	102,5	13,2		100/50
	1	75	6	CL1-D14	8,9	17,0	7,0	16,0	6,0	63,0	6,4	GREEN	200/50
			6	CL1-D141	8,9	17,0	7,0	19,0	6,0	66,0	6,4		200/50
			10	CL1-D38	8,9	19,0	11,0	25,5	10,0	80,5	10,5		100/25
			12	CL1-DN	8,9	21,0	14,0	44,5	12,0	104,5	13,2		100/25
50	1/0	100	6	CL1/0-D14	10,0	19,0	7,9	16,0	7,0	68,0	6,4	PINK	100/25
			6	CL1/0-D141	10,0	19,0	7,9	19,0	7,0	71,0	6,4		100/25
			10	CL1/0-D38	10,0	20,0	10,9	25,5	10,0	83,5	10,5		100/25
			12	CL1/0-DN	10,0	21,0	14,0	44,5	12,0	107,5	13,2		100/25
70	2/0	125	6	CL2/0-D14	11,3	21,0	7,8	16,0	7,0	76,0	6,4	BLACK	60/30
			6	CL2/0-D141	11,3	21,0	7,8	19,0	7,0	79,0	6,4		60/30
			10	CL2/0-D38	11,3	21,0	11,0	25,5	10,0	91,5	10,5		60/30
			12	CL2/0-DN	11,3	22,0	14,0	44,5	12,0	115,5	13,2		60/30
95	3/0	150	6	CL3/0-D141	12,4	23,3	8,0	19,0	7,0	82,0	6,4	ORANGE	60/30
			10	CL3/0-D38	12,4	23,3	11,0	25,5	10,0	94,5	10,5		60/30
			12	CL3/0-DN	12,4	24,0	14,0	44,5	12,0	118,5	13,2		60/30
	4/0	200	6	CL4/0-D141	13,5	25,0	13,0	19,0	11,0	94,0	6,4	PURPLE	50/25
			10	CL4/0-D38	13,5	25,0	11,0	25,5	10,0	97,5	10,5		50/25
			10	CL4/0-DN38	13,5	25,0	11,0	44,5	10,0	116,5	10,5		50/25
			12	CL4/0-DN	13,5	25,0	14,0	44,5	12,0	121,5	13,2		50/25
120	250 MCM	250	10	CL250-D38	15,2	28,5	11,0	25,5	10,0	103,0	10,5	YELLOW	40/20
			12	CL250-DN	15,2	28,5	14,0	44,5	12,0	127,0	13,2		40/20
150	300 MCM	300	10	CL300-D38	16,7	31,5	13,0	25,5	11,0	116,0	10,5	WHITE	30/15
			12	CL300-DN	16,7	31,5	16,0	44,5	14,0	141,0	13,2		30/15
185	350 MCM	350	6	CL350-D141	17,6	33,0	13,0	19,0	11,0	109,5	6,4	RED	30/15
			10	CL350-D38	17,6	33,0	13,0	25,5	11,0	116,0	10,5		30/15
			12	CL350-DN	17,6	33,0	16,0	44,5	14,0	141,0	13,2		30/15
	400 MCM	400	6	CL400-D141	19,2	35,5	13,0	19,0	11,0	118,5	6,4	BLUE	20/10
			10	CL400-D38	19,2	35,5	13,0	25,5	11,0	125,0	10,5		20/10
			12	CL400-DN	19,2	35,5	16,0	44,5	14,0	150,0	13,2		20/10
240	500 MCM		6	CL500-D141	21,1	39,0	13,0	19,0	11,0	119,5	6,4	BROWN	20/10
			10	CL500-D38	21,1	39,0	13,0	25,5	11,0	126,0	10,5		10/5
			12	CL500-DN	21,1	39,0	16,0	44,5	14,0	151,0	13,2		10/5
300	600 MCM		10	CL600-D38	23,7	44,0	20,0	25,5	11,0	149,5	10,5	GREEN	20/5
			12	CL600-DN	23,7	44,0	20,0	44,5	14,0	171,5	13,2		20/5
	750 MCM		10	CL750-DN38	26,0	48,0	20,0	44,5	11,0	173,5	10,5	BLACK	15/5
			10	CL750-D38	26,0	48,0	20,0	25,5	11,0	154,5	10,5		15/5
			12	CL750-DN	26,0	48,0	20,0	44,5	14,0	176,5	13,2		15/5

Mechanical Tools: TN70SE, TN120SE

Hydraulic Tools: B15MD, HT51, RH50, B500, B500ND, HT120 and tools and heads with 130 kN crimping force, ECW-H3D, RHU520

Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · COLOR CODED · -50°C +150°C · SEMICIRCULAR

CL series lugs are manufactured from electrolytic Copper tube with a purity greater than 99.9%.
The dimensions of the tube are designed to obtain the most efficient electrical conductivity and mechanical strength to resist vibration and pull out.
CEMBRE lugs are annealed to guarantee optimum ductility, an absolute necessity for connectors which will have to withstand the severe deformation arising when compressed and any bending of the palm during installation.
In applications subject to vibration, terminals have to perform a reliable connection, the annealing process plays a vital role in avoiding cracking or breaks between the barrel and palm.
The barrel length has been designed to allow easy and accurate positioning of the dies during the crimping operation.
Lugs are electrolytically Tin plated to avoid oxidation.
The tongue is clearly marked with wire size and die index for CEMBRE tools.
UL listed for US and Canada per UL486A up to 35 KV.
CL series lugs are an important part of CEMBRE crimping systems for power carrying conductors.

Details of the appropriate crimping tools and dies are shown on page 359.

CEMBRE technicians are available to provide technical advice as required.
Please consult CEMBRE for products not listed.

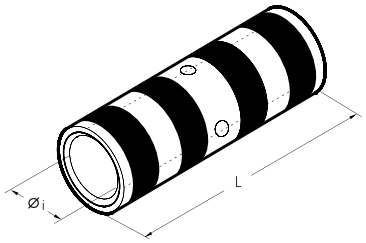
CEMBRE

BSCL

COLOUR CODED SPLICES

long barrel - for Copper conductors





Cu · FUNNEL ENTRY · ANNEALED · 3µm TIN PLATED · COLOR CODED · -50°C +150°C · SEMICIRCULAR

BSCL range of connectors are designed for jointing low voltage conductors in heavy duty applications. Made of electrolytic Copper tube with a purity greater than 99.9%, having the same dimension as C and CL series lugs, BSCL connectors are annealed and electrolytically Tin plated.
They feature an internal taper at both ends to ease the introduction of the conductor and a central stop to ensure correct positioning.
UL listed for US and Canada per UL486A up to 35 KV.

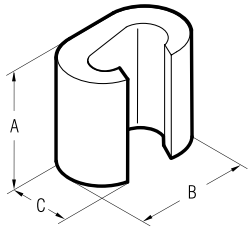
Appropriate crimping tools and dies are shown in details on page 359.

Conductor Size sqmm (AWG)	Conductor Size AWG	Type	Dimensions mm Øi	Dimensions mm L	Colour Code	Quantity Box/Bag	Mechanical Tools: HN1	HN5	TN70	TN120S	Hydraulic Tools: B15MD	B500ND	B500	RH50	HT51	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
10	8	**BSCL8**	4,6	50,5	RED	600/150												
16	6	**BSCL6**	5,8	50,5	BLUE	400/100												
25	4	**BSCL4**	6,2	60,5	GREY	200/100												
	3	**BSCL3**	7,0	60,5	WHITE	200/50												
35	2	**BSCL2**	7,6	60,5	BROWN	200/50												
	1	**BSCL1**	8,9	65,5	GREEN	200/50												
50	1/0	**BSCL1/0**	10,0	73,0	PINK	200/50												
70	2/0	**BSCL2/0**	11,3	79,0	BLACK	100/50												
95	3/0	**BSCL3/0**	12,4	79,0	ORANGE	80/40												
	4/0	**BSCL4/0**	13,5	85,5	PURPLE	50/25												
120	250 MCM	**BSCL250**	15,2	85,5	YELLOW	50/25												
150	300 MCM	**BSCL300**	16,7	104,5	WHITE	40/20												
185	350 MCM	**BSCL350**	17,6	104,5	RED	40/20												
	400 MCM	**BSCL400**	19,2	111,0	BLUE	20/10												
240	500 MCM	**BSCL500**	21,1	117,0	BROWN	20/10												
300	600 MCM	**BSCL600**	23,7	139,5	GREEN	20/10												
	750 MCM	**BSCL750**	26,0	149,0	BLACK	10/10												

SLEEVE CONNECTORS

C-C

for Copper conductors





tin plated version

Conductor Size sqmm Run	Conductor Size sqmm Tap	Type	Dimensions mm A	B	C	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
6÷2,5	6÷1,5	C6-C6ST*	9,0	9,8	6,4	1.500/100	HP4-C10	
10	10÷1,5	C10-C10ST*	12,0	12,6	8,4	500/100		
16	16÷1,5	C16-C16ST	17,0	19,4	12,0	500/100		
25÷16	10÷1,5	C25-C10ST	17,0	19,8	13,0	400/50		
25	25÷16	C25-C25ST	17,0	21,4	13,0	300/50		
40÷35	16÷1,5	C35-C16ST	21,0	24,6	15,4	200/25		
40÷35	40÷25	C35-C35ST	21,0	26,6	15,6	200/25		
50	25÷10							
70÷63	25÷1,5	C70-C25N-ST	21,0	26,4	17,5	200/50		
50	25÷4	C50-C25ST	25,0	32,9	21,0	100/25		
50	50÷35	C50-C50ST	26,0	33,0	21,0	100/25		
70÷50	40÷4	C70-C35ST	28,0	33,0	21,0	100/25		
70÷50	70÷35	C70-C70ST	28,0	34,0	21,0	100/25		
100÷95	40÷4	C95-C35ST	29,0	40,6	26,0	50/25		
100÷95	70÷40	C95-C70ST	29,0	41,0	26,0	50/25		
100÷95	100÷63	C95-C95ST	29,0	41,0	26,0	50/25		
125÷110	125÷25	C120-C120ST	30,0	45,0	28,0	30/15		
160÷150	125÷25	C150-C120ST	31,0	45,0	28,0	50/25		
125	125							
150	150÷63	C150-C150ST	30,0	45,0	28,0	50/25		
125	125							
185	100÷16	C185-C95ST	31,0	45,0	28,0	30/15		
185÷120	185÷120	C185-C185ST	22,6	68,0	34,0	30/15		
240÷150	120÷95	C240-C120ST	22,6	68,0	34,0	30/15		

Hydraulic Tools: HT45-E, B450ND-BV, B500, B500ND, HT51, RH50, HT81-UD, RHU81-D, HT120 and tools and heads with 130 kN crimping force, ECW-H3D

*Given the small size, on these connectors, only the type is engraved

bright surface version

Conductor Size sqmm Run	Conductor Size sqmm Tap	Type	Dimensions mm A	B	C	Quantity Box/Bag	Mechanical Tools	Hydraulic Tools
6÷2,5	6÷1,5	C6-C6*	9,0	9,8	6,4	1.000/100	HP4-C10	
10	10÷1,5	C10-C10*	12,0	12,6	8,4	500/100		
16	16÷1,5	C16-C16	17,0	19,4	12,0	500/100		
25÷16	10÷1,5	C25-C10	17,0	19,8	13,0	400/50		
25	25÷16	C25-C25	17,0	21,4	13,0	300/50		
40÷35	16÷1,5	C35-C16	21,0	24,6	15,4	200/25		
40÷35	40÷25	C35-C35	21,0	26,6	15,6	200/25		
50	25÷10							
70÷63	25÷1,5	C70-C25N	21,0	26,4	17,5	200/25		
50	25÷4	C50-C25	25,0	32,9	21,0	100/25		
50	50÷35	C50-C50	26,0	33,0	21,0	100/25		
70÷50	40÷4	C70-C35	28,0	33,0	21,0	100/25		
70÷50	70÷35	C70-C70	28,0	34,0	21,0	100/25		
100÷95	40÷4	C95-C35	29,0	40,6	26,0	50/25		
100÷95	70÷40	C95-C70	29,0	41,0	26,0	50/25		
100÷95	100÷63	C95-C95	29,0	41,0	26,0	50/25		
125÷110	125÷25	C120-C120	30,0	45,0	28,0	30/15		
160÷150	125÷25	C150-C120	31,0	45,0	28,0	30/15		
125	125							
150	150÷63	C150-C150	30,0	45,0	28,0	30/15		
125	125							
185	100÷16	C185-C95	31,0	45,0	28,0	30/15		
185÷120	185÷120	C185-C185	22,6	68,0	34,0	30/15		
240÷150	120÷95	C240-C120	22,6	68,0	34,0	30/15		

Hydraulic Tools: HT45-E, B450ND-BV, B500, B500ND, HT51, RH50, HT81-UD, RHU81-D, HT120 and tools and heads with 130 kN crimping force, ECW-H3D

*Given the small size, on these connectors, only the type is engraved







"C" connectors are manufactured from Copper profiles with a purity greater than 99.9%, and are suitable for a variety of uses either to create an earthing network or tapping off from overhead distribution lines. Each connector is marked as follows:

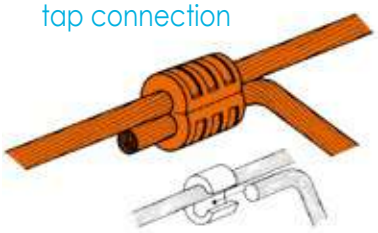
- CEMBRE trade mark
- Reference number
- Conductor size-Run
- Conductor size-Tap
- Number of crimps
- Die reference.

Details of the appropriate crimping tools and dies are shown on page 352.

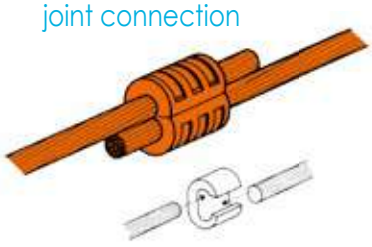




Example of tap connection

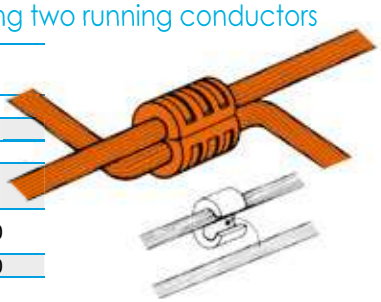


Example of joint connection



Example of joining two running conductors

Conductor Size sqmm	Type
25-25	C35-C16
35-35	C35-C35
50-50	C70-C70
63-63	C95-C70
70-70	
95-95	C150-C120
120-120	
125-125	C150-C150
120-120	C185-C95
125-125	



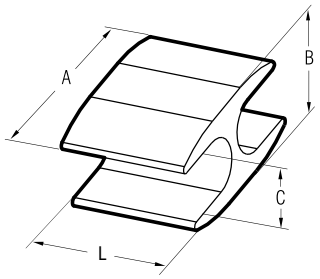
CEMBRE

H-H

H CLAMPS

for Copper conductors





tin plated version

Conductor Size mm²		Type	Dimensions mm				Quantity	Hydraulic Tools			
Run	Tap		A	B	C	L		HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
70	70	**H70-H70ST**	34,0	17,0	10,8	28,0	25				
95	95	**H95-H95ST**	40,0	22,0	13,0	30,0	25				
120	120	**H120-H120ST**	43,0	24,0	15,5	25,0	15				

bright surface version

Conductor Size mm²		Type	Dimensions mm				Quantity	Hydraulic Tools			
Run	Tap		A	B	C	L		HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
70	70	**H70-H70**	34,0	17,0	10,8	28,0	25				
95	95	**H95-H95**	40,0	22,0	13,0	30,0	25				
120	120	**H120-H120**	43,0	24,0	15,5	25,0	15				

H clamps are manufactured from Copper profiles with a purity greater than 99.9%, and are suitable for a earthing systems.
Each connector is marked as follows:
- CEMBRE trade mark
- Reference number

features:
- H shape
- For Copper conductors DIN 48201
- Material: Cu ETP (CW004A) according to EN 13605
- Surface: bright and tin plated version
- Electrolytically tin plated to avoid oxidation; min 3µm

Details of the appropriate crimping tools and dies are shown on page 352.

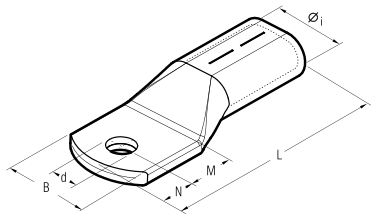
TWIN CABLE TERMINAL LUGS FOR ROUND CONDUCTORS

DK

for Copper conductors

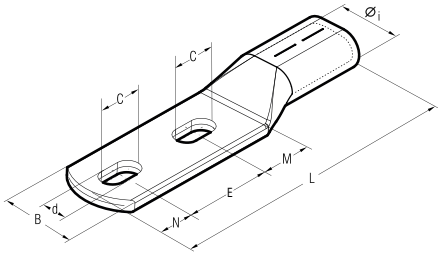


with an M12 hole



Conductor Size mm²	Type	Dimensions mm						Quantity	Hydraulic Tools			
		Øi	B	M	N	L	d		HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
2 x 50	**DK50-M12**	20,6x10,75	34,0	22,0	14,5	93,5	13,0	*10*				
2 x 70	**DK70-M12**	23,0x12,0	37,0	22,0	14,5	97,5	13,0	*10*				
2 x 95	**DK95 -M12**	26,5x12,8	42,0	23,0	16,0	108,0	13,0	*10*				
2 x 120	**DK120-M12**	29,5x15,5	48,0	24,0	14,5	115,5	13,0	*5*				

with 2 elongated holes



Conductor Size mm²	Type	Dimensions mm								Quantity	Hydraulic Tools			
		Øi	B	M	N	E	L	C	d		HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
2 x 70	**DK70-2M12-51AS**	23,0x12,0	37,0	25,5	21,5	51,0	159,0	24,0	13,0	*10*				
2 x 95	**DK95-2M12-51AS**	26,5x12,8	42,0	25,5	21,5	51,0	167,0	24,0	13,0	*10*				
2 x 120	**DK120-2M12-51AS**	29,5x15,5	48,0	25,5	21,5	51,0	175,0	24,0	13,0	*10*				

Cu · ANNEALED · 3µm TIN PLATED · -50°C +150°C · OVAL

DK compression cable lugs are made from Copper tube with a purity greater than 99.9% and are suitable for the compression of 2 round conductors.
Cable lugs with an M12 hole or with 2 elongated holes are available (see tables). The elongated holes 2xM12 allow easy assembly with different fastening points. This enables flexible use in earthing systems.

features:

- For copper conductors DIN 48201
- Material: Cu ETP (CW004A) according to EN13605
- Electrolytically tin plated to avoid oxidation; min 3µm
- Marking: CEMBRE logo; Type, die type (MRD ..- C); Press positions

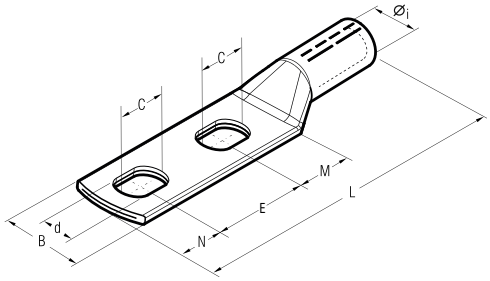
Details of the appropriate crimping tools and dies are shown on page 352.

CEMBRE

DR-2M12-51AS COPPER TUBE CRIMPING LUGS WITH 2 HOLE FIXING

for Copper conductors







DR compression cable lugs are made from Copper tube with a purity greater than 99.9%.
They are available with 2 slotted holes (see tables).
The slotted holes 2xM12 enable easy installation with different attachment points.

features:

- For copper conductors DIN 48201
- Material: Cu ETP (CW004A) according to EN13605
- Electrolytically tin plated to avoid oxidation; min 3µm
- Marking: CEMBRE logo; Type, die type (MK..); Press positions

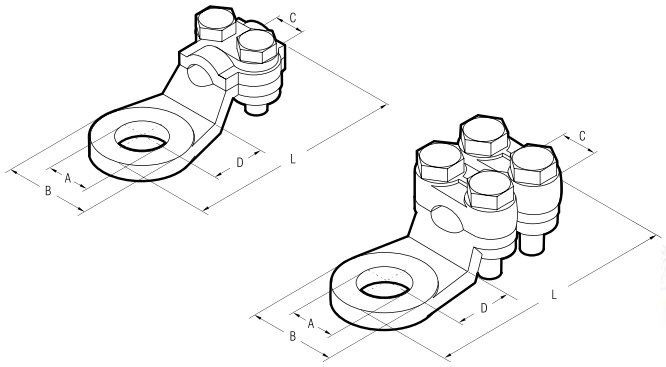
Details of the appropriate crimping tools and dies are shown on page 352.

with 2 elongated holes

Conductor Size sqmm	Type	Dimensions mm								Quantity	Mechanical Tools	Hydraulic Tools
		Øi	B	M	N	E	L	C	d			HT45-E B450ND-BV HT51 RH50 B500 B500ND RH60C HT60C B600C B600CND HT81-UD RHU81-D HT120 and tools and heads with 130 kN crimping force ECW-H3D RHU520
70	**DR70-2M12-51AS**	11,5	24,0	25,5	21,5	51,0	140,0	24,0	13,0	*10*	TNE-D120	
95	**DR95-2M12-51AS**	13,5	28,0	25,5	21,5	51,0	150,0	24,0	13,0	*10*		
120	**DR120-2M12-51AS**	15,5	32,0	25,5	21,5	51,0	151,0	24,0	13,0	*10*		

MECHANICAL FIXING LUGS

21..





2 bolt fixing lugs

Conductor Size sqmm	Type	Clamping Bolt Ø	Clamping Bolt Torque Ratio Nm	Ø A Bolt	Dimensions mm B	C	D	L	Quantity
16	**2155**	M5	3	**M8**	18,0	4,5	12,5	39	*100*
16	**2171**	M5	3	**M10**	18,0	4,5	12,5	39	*100*
25	**2156**	M5	3	**M8**	19,5	6,0	13,0	43	*150/50*
25	**2172**	M5	3	**M10**	19,5	6,0	13,0	43	*100*
35	**2157**	M5	3	**M12**	23,0	7,0	15,0	49	*100/50*
35	**2173**	M5	3	**M14**	23,0	7,0	15,0	49	*50*
50	**2174**	M6	5	**M14**	25,0	8,0	17,0	56	*50*

BRASS | Steel ZINC PLATED | -50°C +150°C

Material:
Brass CB754S EN 1982 Nickel plated.
Zinc plated Steel bolts.

4 bolt fixing lugs

Conductor Size sqmm	Type	Clamping Bolt Ø	Clamping Bolt Torque Ratio Nm	Ø A Bolt	Dimensions mm B	C	D	L	Quantity
50	**2158**	M6	5	**M12**	23,5	8	16,0	57	*50/25*
75	**2160**	M6	5	**M12**	28,0	10	20,0	65	*25*
75	**2176**	M6	5	**M16**	28,0	10	20,0	65	*25*
100	**2161***	M6	5	**M12**	31,0	13	17,0	66	*25*
125	**2162***	M7	10	**M15**	33,0	14	18,0	71	*25*
150	**2163***	M7	10	**M14**	34,0	16	19,5	75	*25*
175	**2164***	M7	10	**M15**	36,0	16	21,0	78	*25*

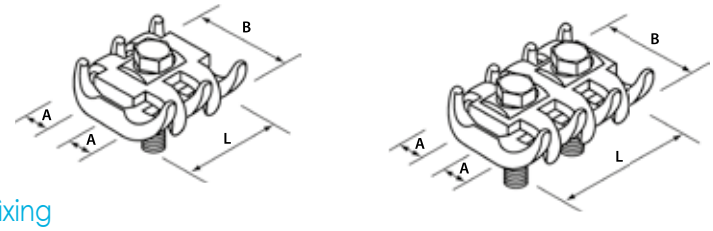


** Versions with U-bolts in bent steel*

CABLE CLAMPS

23..





Single bolt fixing

Conductor Size sqmm	Type	Clamping Bolt Ø	Clamping Bolt Torque Ratio Nm	A for Cable mm	Dimensions mm B	L	Quantity
6÷16	**2323**	M6	8	3÷ 5	24	20,0	*150/50*
16÷50	**2326**	M8	15	5÷ 8	32	28,4	*50/25*
35÷70	**2329**	M8	15	7÷12	40	30,0	*40/10*

BRASS | Steel ZINC PLATED | Steel ZINC PLATED | -50°C +150°C

2 bolt fixing

Conductor Size sqmm	Type	Clamping Bolt Ø	Clamping Bolt Torque Ratio Nm	A for Cable mm	Dimensions mm B	L	Quantity
6÷16	**2333**	M6	8	3÷ 5	24,5	30	*100/50*
16÷50	**2336**	M8	15	5÷ 8	32,0	40	*40/10*
35÷70	**2339**	M8	15	7÷12	40,0	44	*20/10*
50÷95	**2342**	M10	35	8÷14	48,0	48	*10*
95÷150	**2344**	M10	35	12÷16	51,0	53	*10*
150÷300	**2346***	M12	60	16÷22	66,0	66	*5*

** Stainless Steel bolts*

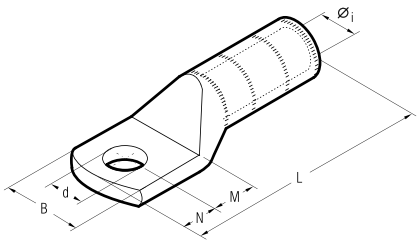
Material:
Brass CB754S EN 1982
White zinc plated Steel bolts.
White zinc plated Steel nuts.

CEMBRE

CA-M

MEDIUM VOLTAGE COPPER TERMINALS





Cu · ANNEALED · 3µm TIN PLATED · -50°C +150°C · CIRCULAR · HEXAGONAL

Series CA-M and 2A-M terminals are designed for medium voltage applications up to 35 kV.
They are manufactured from Copper tube with a purity greater than 99.9%, annealed and Tin plated.
The extended barrel enhances both electrical and mechanical performance. The absence of an inspection hole prevents moisture entry into the crimped joint and makes these terminals suitable for outdoor applications.
Details of the appropriate crimping tools and dies are shown on page 353.

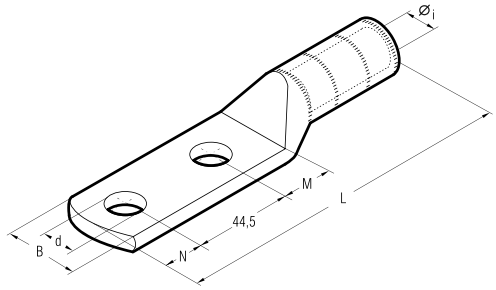
Conductor Size (sqmm) & Format	Ø Stud mm	Type	Dimensions mm						Quantity Box/Bag	Hydraulic Tools						
			Øi	B	M	N	L	d		HT45-E B450ND-BV	HT51 RH50 B500 B500ND B550	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
25 R/BR/BS*	8	CA25-M8	6,8	14,0	9,0	8,0	65,0	8,4	300/50	●	●	●	●	●	●
	10	CA25-M10	6,8	18,0	13,0	11,0	72,0	10,5	200/50	●	●	●	●	●	●
	12	CA25-M12	6,8	21,0	16,0	14,0	78,0	13,2	150/50	●	●	●	●	●	●
30 RC/S ÷ 40 S	12	CA40S-M12	8,2	21,0	16,0	14,0	79,0	13,2	100/50	●	●	●	●	●	●
	16	CA40S-M16	8,2	26,0	19,0	17,0	85,0	17,0	100/50	●	●	●	●	●	●
35 BR/BS*	10	CA35-M10	8,3	21,0	13,0	11,0	73,0	10,5	150/50	●	●	●	●	●	●
	12	CA35-M12	8,3	21,0	16,0	14,0	79,0	13,2	150/50	●	●	●	●	●	●
	16	CA35-M16	8,3	26,0	19,0	17,0	85,0	17,0	150/50	●	●	●	●	●	●
50 RC	12	CA50R-M12	8,7	20,5	16,0	14,0	79,0	13,2	100/50	●	●	●	●	●	●
50 S	12	CA50S-M12	9,5	21,0	16,0	14,0	79,0	13,2	100/50	●	●	●	●	●	●
	16	CA50S-M16	9,5	26,0	19,0	17,0	85,0	17,0	100/50	●	●	●	●	●	●
50 BR/BS*	10	CA50-M10	9,5	21,0	13,0	11,0	73,0	10,5	150/50	●	●	●	●	●	●
	12	CA50-M12	9,5	21,0	16,0	14,0	79,0	13,2	150/50	●	●	●	●	●	●
	14	CA50-M14	9,5	25,0	18,0	16,0	83,0	15,0	100/50	●	●	●	●	●	●
	16	CA50-M16	9,5	26,0	19,0	17,0	85,0	17,0	100/50	●	●	●	●	●	●
63 S ÷ 70 S	12	CA70S-M12	11,0	28,0	16,0	14,0	81,2	13,2	30/15		●	●	●	●	●
	16	CA70S-M16	11,0	30,0	19,0	17,0	87,2	17,0	50/25		●	●	●	●	●
70 BR/BS*	10	CA70S-M10	11,0	26,0	13,0	11,0	75,2	10,5	50/25		●	●	●	●	●
	12	CA70S-M12	11,0	28,0	16,0	14,0	81,2	13,2	30/15		●	●	●	●	●
	14	CA70S-M14	11,0	28,0	18,0	16,0	85,2	15,0	50/25		●	●	●	●	●
	16	CA70S-M16	11,0	30,0	19,0	17,0	87,2	17,0	50/25		●	●	●	●	●
80 S ÷ 95 RC	12	CA95R-M12	12,0	28,0	16,0	14,0	91,0	13,2	30/15		●	●	●	●	●
	14	CA95R-M14	12,0	29,0	18,0	16,0	95,0	15,0	50/25		●	●	●	●	●
95 S ÷ 100 S	12	CA95S-M12	13,5	28,0	16,0	14,0	91,0	13,2	30/15		●	●	●	●	●
	14	CA95S-M14	13,5	29,0	18,0	16,0	94,5	15,0	50/25		●	●	●	●	●
	16	CA95S-M16	13,5	30,0	20,0	17,0	97,0	17,0	50/25		●	●	●	●	●
95 BR/BS*	10	CA95-M10	13,5	28,0	13,0	11,0	85,0	10,5	50/25		●	●	●	●	●
	12	CA95-M12	13,5	28,0	16,0	14,0	91,0	13,2	50/25		●	●	●	●	●
	16	CA95-M16	13,5	30,0	20,0	17,0	97,0	17,0	50/25		●	●	●	●	●
120 RC/S ÷ 150 RC	12	CA150R-M12	15,0	31,0	16,0	14,0	97,0	13,2	30/15		●	●	●	●	●
	14	CA150R-M14	15,0	31,0	18,0	16,0	101,0	15,0	30/15		●	●	●	●	●
120 BR/BS*	12	CA120-M12	15,0	31,0	16,0	14,0	97,0	13,2	30/15		●	●	●	●	●
	16	CA120-M16	15,0	31,0	19,0	17,0	103,0	17,0	30/15		●	●	●	●	●
150 S ÷ 160 RC	12	CA150S-M12	16,5	32,0	16,0	14,0	97,0	13,2	30/15		●	●	●	●	●
	14	CA150S-M14	16,5	32,0	18,0	16,0	101,0	15,0	30/15		●	●	●	●	●
150 BR/BS*	12	CA150-M12	16,5	32,0	16,0	14,0	97,0	13,2	30/15		●	●	●	●	●
	16	CA150-M16	16,5	32,0	19,0	17,0	103,0	17,0	30/15		●	●	●	●	●
160 S ÷ 200 RC	14	CA200R-M14	17,0	32,5	18,0	16,0	101,0	15,0	30/15		●	●	●	●	●
185 BR/BS*	12	CA185-M12	18,0	33,5	16,0	14,0	97,0	13,2	30/15		●	●	●	●	●
	16	CA185-M16	18,0	33,5	19,0	17,0	103,0	17,0	30/15		●	●	●	●	●
200 S ÷ 240 RC	14	CA240R-M14	19,2	43,0	18,0	16,0	107,0	15,0	15/5				●	●	●
240 S ÷ 315 RC	14	CA315R-M14	21,5	43,0	18,0	16,0	105,0	15,0	15/5				●	●	●
240 BR/BS*	12	CA240-M12	20,5	42,0	16,0	14,0	103,0	13,2	15/5				●	●	●
	16	CA240-M16	20,5	42,0	19,0	17,0	109,0	17,0	15/5				●	●	●
	20	CA240-M20	20,5	42,0	22,0	20,0	115,0	21,0	15/5				●	●	●
300 BR/BS*	12	CA300-M12	23,0	43,5	16,0	14,0	109,5	13,2	15/5				●	●	●
	16	CA300-M16	23,0	43,5	19,0	17,0	115,5	17,0	15/5				●	●	●
	20	CA300-M20	23,0	43,5	22,0	20,0	121,5	21,0	15/5				●	●	●
315 S	14	CA315S-M14	23,7	44,0	18,0	16,0	105,0	15,0	15/5				●	●	●

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = BS EN 60228 Round, BS = BS EN 60228 size - Sector shaped*
** = Pre-rounding required, consult CEMBRE for appropriate die set*

MEDIUM VOLTAGE COPPER TERMINALS

CA-2M

two hole fixing

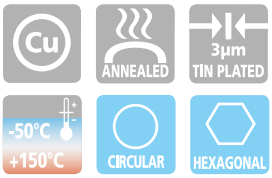




Conductor Size (sqmm) & Format	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Quantity Box/Bag
25 R	8	**CA25-2M8**	6,8	14,0	10,0	11,0	113,5	8,4	*200/50*
	12	**CA25-2M12**	6,8	21,0	16,0	14,0	122,5	13,2	*100/50*
25 BR/BS*	8	**CA25-2M8**	6,8	14,0	10,0	11,0	113,5	8,4	*200/50*
	10	**CA25-2M10**	6,8	18,0	13,0	11,0	116,5	10,5	*150/50*
	12	**CA25-2M12**	6,8	21,0	16,0	14,0	122,5	13,2	*150/50*
30 RC/S ÷ 40 S	12	**CA40S-2M12**	8,2	21,5	16,0	14,0	123,5	13,2	*100/50*
35 BR/BS*	12	**CA35-2M12**	8,3	21,5	16,0	14,0	123,5	13,2	*100*
50 RC	12	**CA50R-2M12**	8,7	20,5	16,0	14,0	123,5	13,2	*100/50*
50 S	12	**CA50S-2M12**	9,5	21,0	16,0	14,0	123,5	13,2	*100/50*
50 BR/BS*	12	**CA50-2M12**	9,5	21,0	16,0	14,0	123,5	13,2	*90/3*
63 S ÷ 70 S	12	**CA70S-2M12**	11,0	27,0	16,0	14,0	125,5	13,2	*50/25*
70 BR/BS*	12	**CA70S-2M12**	11,0	27,0	16,0	14,0	125,5	13,2	*50/25*
80 S ÷ 95 RC	14	**CA95R-2M14**	12,0	28,0	18,0	16,0	139,5	15,0	*30/15*
95 S ÷ 100 S	14	**CA95S-2M14**	13,5	29,0	18,0	16,0	139,5	15,0	*30/15*
95 BR/BS*	12	**CA95-2M12**	13,5	28,0	16,0	14,0	135,5	13,2	*30/15*
120 RC/S ÷ 150 RC	14	**CA150R-2M14**	15,0	31,0	18,0	16,0	145,5	15,0	*30/15*
120 BR/BS*	12	**CA120-2M12**	15,0	31,0	16,0	14,0	141,5	13,2	*30/15*
150 S ÷ 160 RC	14	**CA150S-2M14**	16,5	32,0	18,0	16,0	145,5	15,0	*30/15*
150 BR/BS*	12	**CA150-2M12**	16,5	32,0	16,0	14,0	141,5	13,2	*30/15*
160 S ÷ 200 RC	14	**CA200R-2M14**	17,0	32,5	18,0	16,0	145,0	15,0	*30/15*
185 BR/BS*	12	**CA185-2M12**	18,0	32,5	16,0	14,0	141,5	13,2	*30/15*
200 S ÷ 240 RC	14	**CA240R-2M14**	19,2	43,0	18,0	16,0	151,5	15,0	*15/5*
240 S ÷ 315 RC	14	**CA315R-2M14**	21,5	43,0	18,0	16,0	149,5	15,0	*20/5*
240 BR/BS*	12	**CA240-2M12**	20,5	43,0	16,0	14,0	147,5	13,2	*15/5*
300 BR/BS*	12	**CA300-2M12**	23,0	43,0	16,0	14,0	145,5	13,2	*15/5*
315 S	14	**CA315S-2M14**	23,7	44,0	18,0	16,0	149,5	15,0	*20/5*

Hydraulic Tools: HT45-E, B450ND-BV, B500ND, B550, HT51, RH50, B500, HT81-UD, RHU81-D, HT120 and tools and heads with 130 kN crimping force, ECW-H3D, RHU520

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = BS EN 60228 Round, BS = BS EN 60228 size - Sector shaped*
** = Pre-rounding required, consult CEMBRE for appropriate die set*

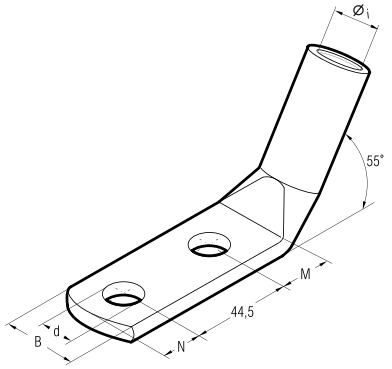


CA-2M and 2A-2M Copper Tube Terminal Lugs are designed for medium voltage applications up to 35 kV. Manufactured from Copper tube with a purity greater than 99.9%, annealed and Tin plated. The extended barrel enhances electrical and mechanical performance.
The absence of an inspection hole prevents moisture entry into the crimped joint. Featuring an extended palm with two fixing holes at 44.5 mm centres.
Details of the appropriate crimping tools and dies are shown on page 353.

MEDIUM VOLTAGE COPPER TERMINALS

2A-2M/55°

palm bent at 55° - two hole fixing





Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	d	Quantity Box/Bag
400 R	14	**2A80-2M14/55**	27,0	51,0	22	16	15	*10/5*
600 R ÷ 630 R	14	**2A120-2M14/55**	33,4	61,5	22	16	15	*15/3*

Hydraulic Tools: HT120 and tools and heads with 130 kN crimping force, ECW-H3D, RHU520

R = Round conductors



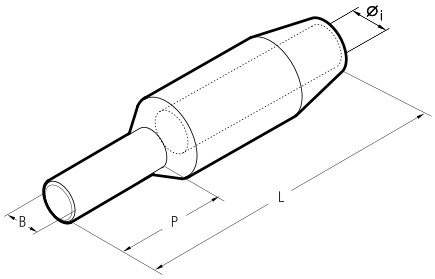
The 2A-2M/55° Copper Tube Terminal Lugs have the same characteristics as the CA-2M and 2A-2M ranges, with the additional feature of the palm bent at 55°.
Details of the appropriate crimping tools and dies are shown on page 353.

CEMBRE

MT-C

MEDIUM VOLTAGE STALK CONNECTORS







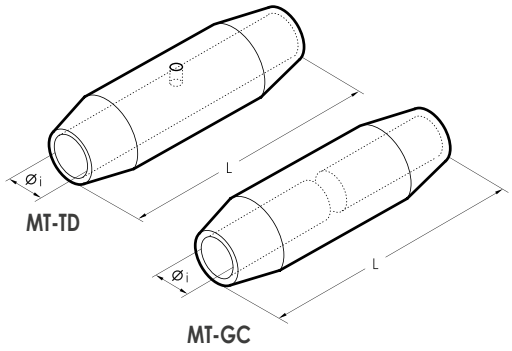
MT-C series connectors are designed for medium voltage applications up to 35 kV.
They are manufactured from Copper with a purity greater than 99.9%, annealed and Tin plated.
The extended barrel enhances both electrical and mechanical performance.
The stalk or pin makes these connectors ideal for terminating conductors into contact blocks.
Details of the appropriate crimping tools and dies are shown on page 353.

Conductor Size (sqmm) & Format	Type	Dimensions mm				Quantity Box/Bag	Hydraulic Tools						
		Øi	B	P	L		HT45-E B450ND-BV	HT51 RH50 B500 B500ND B550	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
25 R	MT25-C8	6,8	8,0	35,0	80,0	90/3	●	●	●	●	●	●
30 RC/S ÷ 40 S	MT40S-C8	8,2	8,0	35,0	80,0	90/3	●	●	●	●	●	●
	MT40S-C10	8,2	10,0	35,0	80,0	90/3	●	●	●	●	●	●
	MT40S-C14-80	8,2	14,0	80,0	123,0	30/3	●	●	●	●	●	●
35 BR/BS*	MT35-C8	8,2	8,0	35,0	80,0	90/3	●	●	●	●	●	●
	MT35-C10	8,2	10,0	35,0	80,0	90/3	●	●	●	●	●	●
	MT35-C14-80	8,2	14,0	80,0	123,0	30/3	●	●	●	●	●	●
50 RC	MT50R-C8	8,8	8,0	35,0	80,0	90/3	●	●	●	●	●	●
	MT50R-C10	8,8	10,0	35,0	80,0	90/3	●	●	●	●	●	●
50 S	MT50S-C8	9,5	8,0	35,0	80,0	90/3	●	●	●	●	●	●
	MT50S-C10	9,5	10,0	35,0	80,0	90/3	●	●	●	●	●	●
	MT50S-C14-80	9,5	14,0	80,0	123,0	30/3	●	●	●	●	●	●
50 BR/BS*	MT50-C8	9,5	8,0	35,0	80,0	90/3	●	●	●	●	●	●
	MT50-C10	9,2	10,0	35,0	80,0	90/3	●	●	●	●	●	●
	MT50-C14-80	9,5	14,0	80,0	123,0	90/3	●	●	●	●	●	●
63 S ÷ 70 S	MT70S-C10	11,2	10,0	35,0	90,0	30/3		●	●	●	●	●
70 BR/BS*	MT70-C10	11,2	10,0	35,0	90,0	30/3		●	●	●	●	●
80 S ÷ 95 RC	MT95R-C10	12,0	10,0	45,0	110,0	60/3		●	●	●	●	●
	MT95R-C12	12,0	12,0	45,0	110,0	60/3		●	●	●	●	●
95 S ÷ 100 S	MT95S-C10	13,5	10,0	45,0	110,0	60/3		●	●	●	●	●
	MT95S-C12	13,5	12,0	45,0	110,0	60/3		●	●	●	●	●
	MT95S-C14-80	13,5	14,0	80,0	145,0	60/3		●	●	●	●	●
95 BR/BS*	MT95-C10	13,5	10,0	45,0	110,0	60/3		●	●	●	●	●
	MT95-C12	13,5	12,0	45,0	110,0	60/3		●	●	●	●	●
	MT95-C14-80	13,5	14,0	80,0	145,0	60/3		●	●	●	●	●
120 RC/S ÷ 150 RC	MT150R-C12	15,0	12,0	45,0	110,0	60/3		●	●	●	●	●
	MT150R-C16	15,0	16,0	45,0	110,0	30/3		●	●	●	●	●
120 BR/BS*	MT120-C12	15,0	12,0	45,0	110,0	60/3		●	●	●	●	●
	MT120-C16	15,0	16,0	45,0	110,0	60/3		●	●	●	●	●
150 S ÷ 160 RC	MT150S-C12	16,5	12,0	45,0	110,0	60/3		●	●	●	●	●
	MT150S-C14-80	16,5	14,0	80,0	145,0	45/3		●	●	●	●	●
	MT150S-C16	16,5	16,0	45,0	110,0	30/3		●	●	●	●	●
150 BR/BS*	MT150-C10	16,5	10,0	45,0	110,0	60/3		●	●	●	●	●
	MT150-C12	16,5	12,0	45,0	110,0	60/3		●	●	●	●	●
	MT150-C14-80	16,5	14,0	80,0	145,0	45/3		●	●	●	●	●
	MT150-C16	16,5	16,0	45,0	110,0	60/3		●	●	●	●	●
160 S ÷ 200 RC	MT200R-C10	17,0	10,0	45,0	110,0	30/3		●	●	●	●	●
	MT200R-C16	17,0	16,0	45,0	110,0	30/3		●	●	●	●	●
185 BR/BS*	MT185-C10	18,0	10,0	45,0	110,0	30/3		●	●	●	●	●
	MT185-C16	18,0	16,0	45,0	110,0	30/3		●	●	●	●	●
200 S ÷ 240 RC	MT240R-C12	19,5	12,0	50,0	115,0	30/3				●	●	●
	MT240R-C16	19,5	16,0	50,0	115,0	30/3				●	●	●
240 S ÷ 315 RC	MT315R-C16	21,5	16,0	50,0	115,0	30/3				●	●	●
240 BR/BS*	MT240-C12	20,5	12,0	45,0	110,0	30/3				●	●	●
	MT240-C16	20,5	16,0	50,0	115,0	30/3				●	●	●
300 BR/BS*	MT300-C16	23,0	16,0	50,0	115,0	30/3				●	●	●
315 S	MT315S-C16	24,0	16,0	60,0	130,0	30/3				●	●	●

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = BS EN 60228 Round, BS = BS EN 60228 size - Sector shaped*
** = Pre-rounding required, consult CEMBRE for appropriate die set*

MEDIUM VOLTAGE COPPER THROUGH CONNECTORS

MT-TD
MT-GC





Conductor Size (sqmm) & Format	Type	Type	Dimensions mm		Quantity Box/Bag	Hydraulic Tools								
			Øi	L		HT45-E	B450ND-BV	B550	B500ND	B500E	RH50	HT51	HT81-UD	RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
25 R/BR/BS*	MT25-TD	MT25-GC	6,8	60,0	90/3												
30 RC/S ÷ 40 S	MT40S-TD	MT40S-GC	8,2	60,0	90/3												
30 BR/BS*	MT35-TD	MT35-GC	8,2	60,0	90/3												
50 RC	MT50R-TD	MT50R-GC	8,7	60,0	90/3												
50 S	MT50S-TD	MT50S-GC	9,5	60,0	90/3												
50 BR/BS*	MT50-TD	MT50-GC	9,5	60,0	90/3												
63 S ÷ 70 S	MT70S-TD	MT70S-GC	11,0	70,0	30/3												
70 BR/BS*	MT70-TD	MT70-GC	11,0	70,0	30/3												
80 S ÷ 95 RC	MT95R-TD	MT95R-GC	12,0	80,0	30/3												
95 S ÷ 100 S	MT95S-TD	MT95S-GC	13,5	80,0	30/3												
95 BR/BS*	MT95-TD	MT95-GC	13,5	80,0	30/3												
120 RC/S ÷ 150 RC	MT150R-TD	MT150R-GC	15,0	80,0	30/3												
120 BR/BS*	MT120-TD	MT120-GC	15,0	80,0	30/3												
150 S ÷ 160 RC	MT150S-TD	MT150S-GC	16,5	80,0	30/3												
150 BR/BS*	MT150-TD	MT150-GC	16,5	80,0	30/3												
160 S ÷ 200 RC	MT200R-TD	MT200R-GC	17,0	100,0	30/3												
185 BR/BS*	MT185-TD	MT185-GC	18,0	100,0	30/3												
200 S ÷ 240 RC	MT240R-TD	MT240R-GC	19,2	100,0	21/3												
240 S ÷ 315 RC	MT315R-TD	MT315R-GC	21,5	100,0	21/3												
240 BR/BS*	MT240-TD	MT240-GC	20,5	100,0	30/3												
300 BR/BS*	MT300-TD	MT300-GC	23,0	100,0	30/3												
315 S	MT315S-TD	MT315S-GC	23,7	100,0	21/3												
400 BR/BS*	MT400-TD	MT400-GC	27,0	120,0	15/3												
500 R	MT500-TD		30,3	118,0	12/3												
600 R ÷ 630 R	MT630-TD		33,4	130,0	9/3												

Conductor Format: R = Round, RC = Round Compact, S = Sector, BR = BS EN 60228 Round, BS = BS EN 60228 size - Sector shaped*
** = Pre-rounding required, consult CEMBRE for appropriate die set*



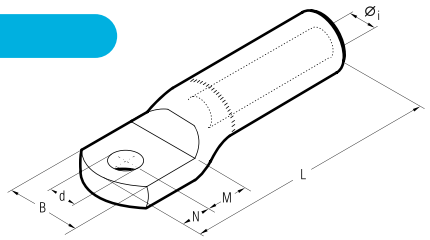
MT-TD and MT-GC series connectors are designed to join conductors in medium voltage applications up to 35 kV.
They are manufactured from Copper with a purity greater than 99.9%, annealed and Tin plated.
MT-GC series feature a solid stop which forms a barrier between the two conductors being joined, this prevents the migration of oils or greases, which may be present, in one cable contaminating the other cable.
MT-TD connectors are unblocked and are suitable for joining cables of the same type.
Details of the appropriate crimping tools and dies are shown on page 353.

CEMBRE

AA-M

ALUMINIUM TERMINALS





AA-M series terminals are made from Aluminium of a purity equal to or greater than 99,5%.
They are designed to accept a variety of conductor forms especially low stranded compacted conductors.
Non circular conductors may require pre-rounding prior to introduction to the terminal.
Barrels are capped and filled with grease so as to avoid oxidation of the Aluminium.
Details of the appropriate crimping tools and dies are shown on page 353-357.

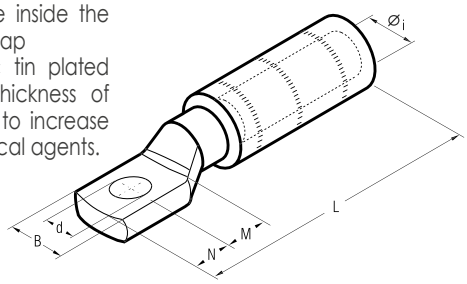
Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Quantity Box/Bag	Hydraulic Tools
16	8	**AA16-M8**	5,5	21	13	11	77,0	8,4	60/3	HT131-UC RHU131-C B1300-UC
25	8	**AA25-M8**	6,5	21	13	11	77,0	8,4	60/3	
35	8	**AA35-M8**	8,0	23	13	11	77,5	8,4	60/3	
	10	**AA35-M10**	8,0	23	13	11	77,5	10,5	60/3	
50	12	**AA50-M12**	9,0	26	16	14	91,0	13,2	60/3	
	14	**AA50-M14**	9,0	26	18	16	95,0	15,0	60/3	
70	12	**AA70-M12**	11,0	27	16	14	91,0	13,2	45/3	
	14	**AA70-M14**	11,0	27	18	16	95,0	15,0	45/3	
95	12	**AA95-M12**	12,5	27	16	14	91,0	13,2	30/3	
	14	**AA95-M14**	12,5	27	18	16	95,0	15,0	45/3	
120	12	**AA120-M12**	13,7	35	16	14	115,0	13,2	21/3	
	14	**AA120-M14**	13,7	35	18	16	119,0	15,0	30/3	
150	12	**AA150-M12**	15,5	34	16	14	115,0	13,2	45/3	
	14	**AA150-M14**	15,5	34	18	16	119,0	15,0	30/3	
185	12	**AA185-M12**	17,0	42	20	14	122,0	13,2	15/3	
	14	**AA185-M14**	17,0	42	22	16	126,0	15,0	18/3	
240	12	**AA240-M12**	19,5	44	20	14	122,0	13,2	15/3	
	14	**AA240-M14**	19,5	44	22	16	126,0	15,0	15/3	
300	12	**AA300-34M12**	22,5	47	22	14	130,0	13,2	15/3	HT120 HT131-C RHC131
	14	**AA300-34M14**	22,5	47	22	16	132,0	15,0	15/3	
	16	**AA300-34M16**	22,5	47	22	17	133,0	17,0	15/3	ECW-H3D
	16	**AA300-M16**	23,3	54	22	19	177,0	17,0	12/3	RHU 230-630
400	16	**AA400-M16**	26,0	56	19	17	172,0	17,0	15/3	
500	16	**AA500-40M16**	29,1	57	22	19	177,0	17,0	12/3	
630	16	**AA630-M16**	32,5	70	22	19	177,0	17,0	9/3	

AAC150-M10

for bimetallic connections in medium/low voltage cabins



Tin plated aluminum cable lug with single hole for M10 screw, with limited connection, for aluminum cables section 150 mm².
Characterized by:
- spacer marking for correct compression
- **CEI EN 61238-1** self-certification according to ENEL indications
- presence of grease inside the barrel and closing cap
- Surface electrolytic tin plated with a minimum thickness of 15µm, which helps to increase resistance to chemical agents.

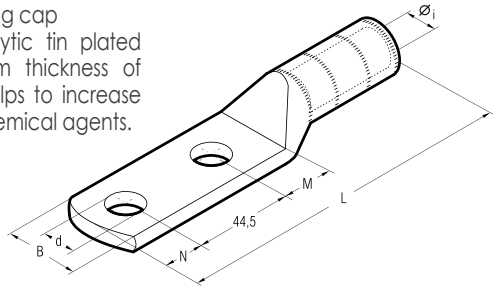


Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Quantity Box/Bag	Hydraulic Tools
150	10	**AAC150-M10**	15,5	19	16	15	99	10,5	28/4	HT51 RH50 B500 B500ND

AA150S-2M12/29ST



Tin plated aluminum cable lug with double hole for M12 screws, center distance 44.5 mm, for aluminum cables section. 150 mm².
Characterized by:
- spacer marking for correct compression
- **CEI EN 61238-1** self-certification according to ENEL indications
- presence of grease inside the barrel and closing cap
- Surface electrolytic tin plated with a minimum thickness of 15µm, which helps to increase resistance to chemical agents.

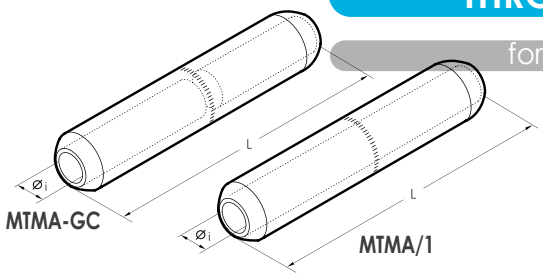


Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	B	M	N	L	d	Quantity Box/Bag	Hydraulic Tools
150	12	**AA150S-2M12/29ST**	15,5	29	16	14	144,5	13,2	24/4	HT51 RH50 B500 B500ND

THROUGH CONNECTORS

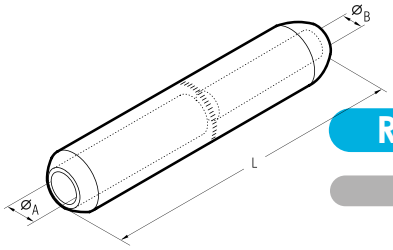
for Aluminium conductors

MTMA-GC
MTMA/1





Conductor Size sqmm	Type	Type	Dimensions mm Øi	Dimensions mm L	Quantity Box/Bag	Hydraulic Tools					
10	MTMA10-GC		4,3	90,5	60/3	B1300-UC	RHU131-C	HT131-UC			
16	MTMA16-GC	MTMA16/1	5,5	90,5	60/3						
25	MTMA25-GC	MTMA25/1	6,5	90,5	60/3						
35	MTMA35-GC	MTMA35/1	8,0	90,5	60/3						
	MTMA35-20-GC		8,0	106,5	30/3						
50	MTMA50-GC	MTMA50/1	9,0	106,5	30/3						
70	MTMA70-GC	MTMA70/1	11,0	106,5	30/3						
95	MTMA95-GC		12,5	110,0	30/3						
		MTMA95/1	12,5	106,5	30/3						
120	MTMA120-GC	MTMA120/1	13,7	133,0	21/3						
150	MTMA150-GC		15,5	135,0	21/3						
		MTMA150/1	15,5	133,5	21/3						
185	MTMA185-GC	MTMA185/1	17,0	143,5	15/3						
240	MTMA240-GC	MTMA240/1	19,5	143,5	15/3						
300	MTMAD300-GC		22,5	144,5	12/3	HT120 HT131-C RHC131	ECW-H3D	RHU230-630			
		MTMAD300/1	22,5	135,0	15/3						
	MTMA300-GC		23,3	218,0	15/3						
400		MTMA400/1	26,0	218,0	15/3						
500	MTMA500-GC		29,1	218,5	12/3						
		MTMA500-40/1	29,1	218,0	15/3						
630		MTMA630/1	32,5	218,5	12/3						



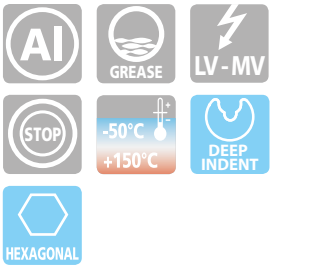


REDUCER THROUGH CONNECTORS

for Aluminium or Copper conductors

MTMA-GC

Conductor Size sqmm Side A Al	Side B Al/Cu	Type	Dimensions mm ØA	Dimensions mm ØB	Dimensions mm L	Quantity Box/Bag	Hydraulic Tools					
16	10	MTMA16-10-GC	5,5	4,3	90,5	60/3	B1300-UC	RHU131-C	HT131-UC			
25	10	MTMA25-10-GC	6,5	4,3	90,5	60/3						
	16	MTMA25-16-GC	6,5	5,5	90,5	60/3						
50	25	MTMA50-25-GC	9,0	6,5	106,5	30/3						
	35	MTMA50-35-GC	9,0	8,0	106,5	30/3						
70	35	MTMA70-35-GC	11,0	8,0	106,5	30/3						
	50	MTMA70-50-GC	11,0	9,0	106,5	30/3						
95	50	MTMA95-50-GC	12,5	9,0	109,4	30/3						
	70	MTMA95-70-GC	12,5	11,0	106,5	30/3						
120	70	MTMA120-70-GC	13,7	11,0	133,0	21/3						
	95	MTMA120-95-GC	13,7	12,5	133,0	30/3						
150	70	MTMA150-70-GC	15,5	11,0	133,0	30/3						
	95	MTMA150-95-GC	15,5	12,5	134,4	21/3						
	120	MTMA150-120-GC	15,5	13,7	133,0	21/3						
185	120	MTMA185-120-GC	17,0	13,7	143,5	15/3						
	150	MTMA185-150-GC	17,0	15,5	143,5	15/3						
240	150	MTMA240-150-GC	19,5	15,5	143,5	15/3						
	185	MTMA240-185-GC	19,5	17,0	143,5	15/3						
300	95	MTMAD300-95-GC	22,5	12,5	144,5	15/3	HT120 HT131-C RHC131	ECW-H3D	RHU230-630			
	150	MTMAD300-150-GC	22,5	15,5	144,5	15/3						
	185	MTMAD300-185-GC	22,5	17,0	144,5	15/3						
	240	MTMAD300-240-GC	22,5	19,5	144,5	12/3						
400	240	MTMA400-240-GC	26,0	19,5	218,0	15/3						
	300	MTMA400-300-GC	26,0	23,3	218,0	15/3						
500	300	MTMA500-300-GC	29,1	23,3	218,5	12/3						
	400	MTMA500-400-GC	29,1	26,0	218,5	12/3						



MTMA-GC series through connectors are made from Aluminium of a purity equal to or greater than 99,5%.
They feature a solid stop which creates a barrier between the two sides of conductors to be joined.
Barrels are capped and filled with grease so as to avoid oxidation of the connector. MTMA/1 series through connectors are unblocked and are suitable for joining cables of the same type.
Details of the appropriate crimping tools and dies are shown on pages 354-357.

MTMA-GC series reducer through connectors are manufactured to the same specification as MTMA-GC series through connectors.
Details of the appropriate crimping tools and dies are shown on pages 354-357.

CEMBRE

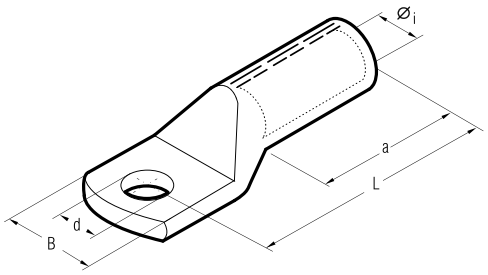
AAD-M

ALUMINIUM TERMINALS

for non-tension connections on Aluminium conductors according to DIN EN 50182

Tube dimensions according to DIN 46329





AL GREASE -50°C +150°C HEXAGONAL

Terminals type AAD..-M.. are made from Aluminium tube of a purity equal or greater than 99,5%.
They are suitable for Aluminium conductors according to DIN EN 50182, up to 10 kV.
All terminals are filled with a special grease that avoids Aluminium oxidation after crimping thereby assuring an optimal compression.
Barrel is closed with a cap for storage and transport.
Bright surface finish
The following data is stamped on the terminal:

- CEMBRE logo
- Terminal description
- Section
- Fixing bolt size
- Number and position of crimps
- CEMBRE Die reference according to DIN 48083

Details of the appropriate crimping tools and dies are shown on page 361.

Conductor Size sqmm rm sm	Conductor Size sqmm re se	Ø Stud mm	Ref.	Code	Dimensions mm Øi	B	L	d	a	Quantity Bag	Hydraulic Tools: HT45-E B450ND-BV	HT51 RH50 B500 B500ND	RH60C HT60C B600C B600CND	HT81-UD RHU81-D	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU 450	RHU 520
16	25	8	AAD16-M8	12	5,8	18	52	8,5	32	50	●	●	●	●	●	●	●	●
		10	AAD16-M10	12	5,8	18	52	10,5	32	50	●	●	●	●	●	●	●	●
25	35	8	AAD25-M8	12	6,8	19	60	8,5	37	50	●	●	●	●	●	●	●	●
		10	AAD25-M10	12	6,8	19	60	10,5	37	50	●	●	●	●	●	●	●	●
35	50	8	AAD35-M8	14	8,0	21	67	8,5	42	35	●	●	●	●	●	●	●	●
		10	AAD35-M10	14	8,0	21	67	10,5	42	35	●	●	●	●	●	●	●	●
		12	AAD35-M12	14	8,0	21	67	13,0	42	35	●	●	●	●	●	●	●	●
50	70	8	AAD50-M8	16	9,8	25	72	8,5	42	30	●	●	●	●	●	●	●	●
		10	AAD50-M10	16	9,8	25	72	10,5	42	30	●	●	●	●	●	●	●	●
		12	AAD50-M12	16	9,8	25	72	13,0	42	30	●	●	●	●	●	●	●	●
70	95	10	AAD70-M10	18	11,2	28	83	10,5	52	15	●	●	●	●	●	●	●	●
		12	AAD70-M12	18	11,2	28	83	13,0	52	15	●	●	●	●	●	●	●	●
		16	AAD70-M16	18	11,2	28	83	17,0	52	15	●	●	●	●	●	●	●	●
95	120	10	AAD95-M10	22	13,2	32	90	10,5	55	10	●	●	●	●	●	●	●	●
		12	AAD95-M12	22	13,2	32	90	13,0	55	10	●	●	●	●	●	●	●	●
		16	AAD95-M16	22	13,2	34	90	17,0	55	10	●	●	●	●	●	●	●	●
120	150	10	AAD120-M10	22	14,7	32	91	10,5	55	10	●	●	●	●	●	●	●	●
		12	AAD120-M12	22	14,7	32	91	13,0	55	10	●	●	●	●	●	●	●	●
		16	AAD120-M16	22	14,7	34	91	17,0	55	10	●	●	●	●	●	●	●	●
150	185	10	AAD150-M10	25	16,5	35	104	10,5	60	8		●	●	●	●	●	●	●
		12	AAD150-M12	25	16,5	35	104	13,0	60	8		●	●	●	●	●	●	●
		16	AAD150-M16	25	16,5	35	104	17,0	60	8		●	●	●	●	●	●	●
		20	AAD150-M20	25	16,5	41	104	21,0	60	8		●	●	●	●	●	●	●
185	240	12	AAD185-M12	28	18,3	40	105	13,0	60	15		●	●	●	●	●	●	●
		16	AAD185-M16	28	18,3	40	105	17,0	60	15		●	●	●	●	●	●	●
		20	AAD185-M20	28	18,3	40	105	21,0	60	15		●	●	●	●	●	●	●
240	300	12	AAD240-M12	32	21,0	45	119	13,0	70	12		●	●		●	●	●	●
		16	AAD240-M16	32	21,0	45	119	17,0	70	12		●	●		●	●	●	●
		20	AAD240-M20	32	21,0	45	119	21,0	70	12		●	●		●	●	●	●
300		12	AAD300-M12	34	23,3	49	125	13,0	70	9			●		●	●	●	●
		16	AAD300-M16	34	23,3	49	125	17,0	70	9			●		●	●	●	●
		20	AAD300-M20	34	23,3	49	125	21,0	70	9			●		●	●	●	●
400		12	AAD400-M12	38	26,0	58	140	13,0	100	3						●	●	●
		16	AAD400-M16	38	26,0	58	140	17,0	100	3						●	●	●
		20	AAD400-M20	38	26,0	58	140	21,0	100	3						●	●	●
500		12	AAD500-M12	44	29,0	63	160	13,0	100	3						●	●	●
		16	AAD500-M16	44	29,0	63	160	17,0	100	3						●	●	●
		20	AAD500-M20	44	29,0	63	160	21,0	100	3						●	●	●

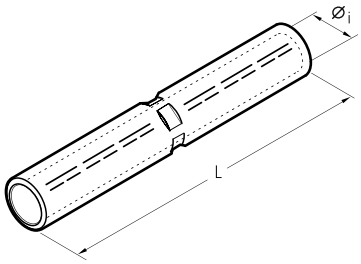
rm = round stranded
sm = sector stranded
re = round solid
se = sector solid

ALUMINIUM THROUGH CONNECTORS

DSVA

for non-tension connections on Aluminium conductors according to DIN EN 50182

Manufactured according to DIN 46267 Part 2





Conductor Size sqmm rm sm	Conductor Size sqmm re se	Code	Ref.	Dimensions mm Øi	Dimensions mm L	Quantity Bag	Hydraulic Tools: B450ND-BV	B500ND	B600CND	RHU81-D	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU 450	RHU 520	HT45-E	B500	HT60C	HT81-UD	RH50	HT51	RH60C
16	25	12	**DSVA16**	5.8	55	*30*															
25	35	12	**DSVA25**	6.8	70	*25*															
35	50	14	**DSVA35**	8.0	85	*25*															
50	70	16	**DSVA50**	9.8	85	*20*															
70	95	18	**DSVA70**	11.2	105	*20*															
95	120	22	**DSVA95**	13.2	105	*15*															
120	150	22	**DSVA120**	14.7	105	*15*															
150	185	25	**DSVA150**	16.5	125	*10*															
185	240	28	**DSVA185**	18.3	125	*10*															
240	300	32	**DSVA240**	21.0	145	*5*															
300		34	**DSVA300**	23.3	145	*10*															
400		38	**DSVA400**	26.0	210	*3*															
		42	**DSVA401**	28.0	210	*3*															
500		44	**DSVA500**	29.0	210	*3*															
		46	**DSVA501**	31.0	210	*3*															
600		52	**DSVA625**	35.0	330	*4*															
800		58	**DSVA800**	40.0	350	*3*															
1000		60	**DSVA1000**	44.0	350	*3*															

rm = round stranded
sm = sector stranded
re = round solid
se = sector solid









Crimping through connectors type DSVA.. are manufactured according to DIN 46267 part 2.
The aluminum tube has a purity equal to or greater than 99.5%.
The crimping through connectors are suitable for aluminum conductors according to DIN EN 50182, up to 10 kV.
All connectors are filled with a special grease that avoids aluminum oxidation after crimp and thus guarantees an optimal compression.
Barrels are capped for storage and transport.
On the connector following information is shown:

- CEMBRE logo
- Connector description
- Section
- Number and position of crimps
- Compression code according to DIN 48083

Details of the appropriate crimping tools and dies are shown on page 361.

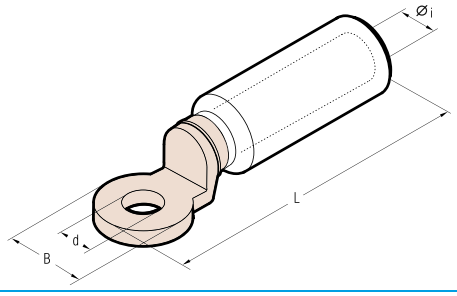
CEMBRE

CAA-M

BIMETALLIC CONNECTORS

Copper palm fixing - Aluminium barrels





Cu Al · GREASE · -50°C +150°C · DEEP INDENT · HEXAGONAL

The barrels of series CAA-M connectors are made from Aluminium of a purity equal to or greater than 99,5%.
The barrel is friction welded to the palm thus achieving the best possible transition between the Copper palm and Aluminium barrel.
Barrels are capped and filled with grease so as to avoid oxidation of the Aluminium.
Details of the appropriate crimping tools and dies are shown on pages 353, 355, 356-357.

Conductor Size sqmm	Ø Stud mm	Type	Dimensions mm Øi	B	L	d	Quantity Box/Bag	Hydraulic Tools: B1300-UC	RHU131-C	HT131-UC	HT120 HT131-C RHC131	ECW-H3D	RHU230-630
10	12	**CAA10-M12**	4,3	24,0	87,0	13,0	60/3	●	●	●			
16	12	**CAA16-M12**	5,5	24,0	87,0	13,0	60/3	●	●	●			
25	12	**CAA25-M12**	6,5	24,0	87,0	13,0	60/3	●	●	●			
35	12	**CAA35-M12**	8,0	24,0	87,0	13,0	45/3	●	●	●			
	12	**CAA35-20-M12**	8,0	24,0	87,0	13,0	60/3	●	●	●			
50	12	**CAA50-M12**	9,0	24,0	87,0	13,0	30/3	●	●	●			
70	12	**CAA70-M12**	11,0	24,0	87,0	13,0	60/3	●	●	●			
95	10	**CAA95-M10**	12,5	24,0	87,0	10,5	30/3	●	●	●			
	12	**CAA95-M12**	12,5	24,0	87,0	13,0	30/3	●	●	●			
120	12	**CAA120-M12**	13,7	31,0	111,0	13,0	24/3	●	●	●			
150	12	**CAA150-M12**	15,5	31,0	111,0	13,0	24/3	●	●	●			
185	12	**CAA185-M12**	17,0	35,0	116,0	13,0	18/3	●	●	●			
240	12	**CAA240-M12**	19,5	35,0	116,0	13,0	18/3	●	●	●			
300	12	**CAA300-34-M12**	22,5	35,0	120,0	13,0	15/3	●	●	●	●	●	
	14	**CAA300-34-M14**	22,5	35,0	120,0	15,0	15/3	●	●	●	●	●	
	16	**CAA300-34-M16**	22,5	35,0	120,0	17,0	15/3	●	●	●	●	●	
	16	**CAA300-M16**	23,3	35,0	152,5	16,5	9/3					●	●
400	12	**CAA400-M12**	26,0	35,0	152,5	13,0	9/3					●	●
	16	**CAA400-M16**	26,0	35,0	152,5	16,5	9/3					●	●
500	16	**CAA500-M16-TNBD**	29,1	35,0	152,5	16,5	9/3					●	●
630	8	**CAA630-4M8**	32,5	60,0	200,0	4 x 9,0*	9/3					●	●

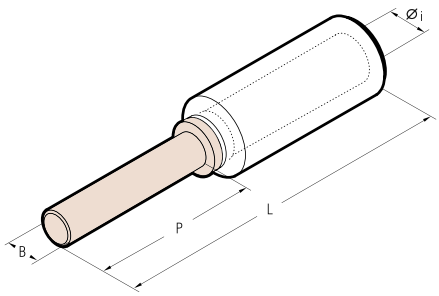
** 4 holes with 30 mm between axes*

MTA-C

BIMETALLIC CONNECTORS

Copper pin - Aluminium barrels





Cu Al · GREASE · -50°C +150°C · DEEP INDENT · HEXAGONAL

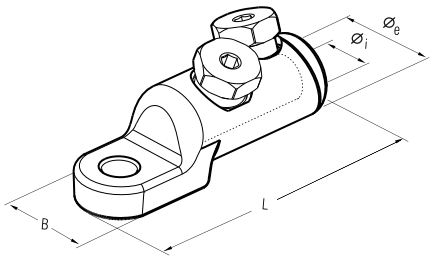
The barrels of series MTA-C connectors are made from Aluminium of a purity equal to or greater than 99,5%.
The barrel is friction welded to the pin thus achieving the best possible transition between the Copper pin and Aluminium barrel.
Barrels are capped and filled with grease so as to avoid oxidation of the Aluminium.
Details of the appropriate crimping tools and dies are shown on pages 353, 355, 356-357.

Conductor Size sqmm	Type	Dimensions mm Øi	B	P	L	Quantity Box/Bag	Hydraulic Tools
16	**MTA16-C**	5,5	8	30	82	90/3	HT131-UC RHU131-C B1300-UC
25	**MTA25-C**	6,5	8	30	82	90/3	
35	**MTA35-C**	8,0	8	30	82	90/3	
50	**MTA50-C**	9,0	12	45	97	60/3	
70	**MTA70-C**	11,0	12	45	97	60/3	
95	**MTA95-C**	12,5	12	45	97	30/3	
120	**MTA120-C**	13,7	14	55	125	30/3	
150	**MTA150-C**	15,5	14	55	125	30/3	
185	**MTA185-C**	17,0	14	55	125	24/3	
240	**MTA240-C**	19,5	14	55	125	24/3	

MECHANICAL LUGS

MLA-NC

For Low and Medium voltage Al/Cu conductors







Conductor Size sqmm	Type	Ø Stud mm	Dimensions mm				N° of Bolts	Number of centring devices	Quantity Box/Bag
			Øe	Øi	B	L			
50-240	**MLA50-240-12NC**	12	33	20,5	33	106,5*	2	3	1/10

** without centring devices*

Al · GREASE · 12µm TIN PLATED · -50°C +150°C

CEMBRE range-taking mechanical connectors are intended for use with Copper and Aluminium conductors, for low and medium voltage (up to 52kV) installations, in indoor, outdoor and underground applications.
Mechanical connector bodies (pic.1) are made from Aluminium EN-AW 2011 T6 with cross sectional area and barrel length designed to optimise electrical connectivity. Internal surfaces are protected against oxidation by grease with a very high dropping point, while the Tin plating on external surfaces has a minimum thickness of 12 µm for improved surface protection.
Shear bolts (pic.2) are made from the same material and designed to ensure a reliable electrical connection simply by tightening the bolts with a standard socket until shearing occurs inside the threaded hole without external protrusion.
To minimise voltage stresses, connectors are provided with centring devices (pic.3) to improve the alignment of the different conductor sizes.

Key features:

- Wide range of conductor cross sections
- Suitable for Copper and Aluminium conductors
- Tested according to IEC 61238
- Torque controlled to guarantee a good electrical contact
- Reduces inventory levels
- Easy installation - only requires a standard socket
- Reduced installation time

Pic. 1





Conductor Size sqmm	Centring device	
	Color	Type
50 - 70 - 95	Red	
120 - 150	Blue	
185	Yellow	
240	**Not required**	

Pic. 3

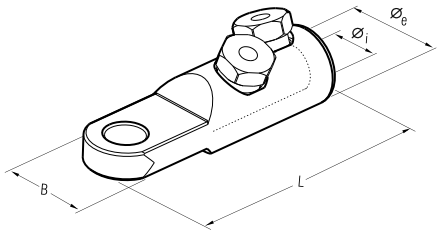
CEMBRE

ML-C

MECHANICAL LUGS WITH SYMMETRICAL PALM

For Medium voltage Al/Cu conductors





Al | GREASE | 12µm TIN PLATED | -50°C +150°C

Conductor Size sqmm	Type	Ø Stud mm	Dimensions mm				N° of Bolts	Number of centring devices	Quantity Box/Bag
			Øe	Øi	B	L			
95-240	**ML95-240-16C**	16	35	20,5	35	124*	2	3	1/10
150-240	**ML150-240-16C**	16	35	20,5	35	124*	2	2	1/10

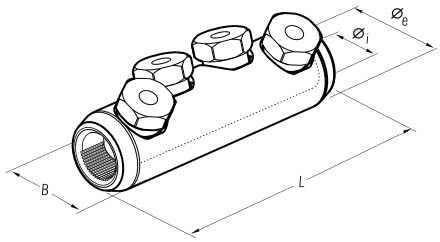
** without centring devices*

MBS-NC

MECHANICAL SPLICES

For Low and Medium voltage Al/Cu conductors





Al | GREASE | 12µm TIN PLATED | -50°C +150°C

Conductor Size sqmm	Type	Dimensions mm				N° of Bolts	Number of centring devices	Quantity Box/Bag
		Øe	Øi	B	L			
50-240	**MBS50-240NC**	35	20,5	35	124*	4	3	1/20

** without centring devices*

TERMINAL BLOCKS, FLEXIBLE BUSBAR, BRAIDS AND DISTRIBUTION BLOCKS



symbol description

terminal blocks



Polycarbonate body



Polyamide PA6.6 body



Polypropylene body



Steatite body



Polyvinylchloride insulating sheath



Electrolytically Tin plated Copper interconnections



Electrolytically Tin plated to avoid oxidation



Nominal voltage V



Degree of Protection IP20



Self-extinguishing class V0 UL94



Zinc plated Steel screws



Chrome plated Steel screws



Brass clamp



Operating temperature range



Italian Institute of the Quality Mark
type approval



Lloyd's Register Marine
type approval



Italian Naval Register
type approval



USR-CNR type approval
valid for USA and CANADA



CE marking

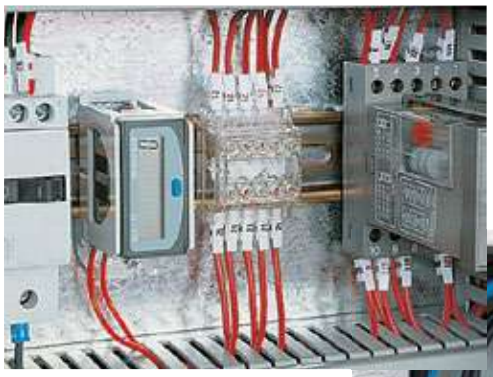


UKCA marking

example applications

terminal blocks

type
ZETApiù®



Z6-10D terminal blocks
used in a control panel.

Z35T-11 uninterrupted,
main earth loop, terminal block.
Used for equipotential bonding







Z16-8D and Z6-6D
mounted on DIN rails.
Used in control panels

type
ZETAmini®

ZETAmini terminal blocks
used for domestic/commercial
applications.





type
ZETA*block*®

A typical application of the
Z50-DP12-160 and Z35-DP14B-125
installed in a distribution panel





Z6

SINGLE POLE TERMINAL BLOCKS

indirect clamping - nominal section 6 sqmm

type ZETApiù®

Z6-3 Z6-5 Z6-6 Z6-10



The "Z...D" version has been designed for mounting on DIN rails

PC | Cu-ETP ELECTROLYTIC | EASY ENTRY | 3µm TIN PLATED | 450V | IP20 | V0 UL94 | MAX +85°C

Connecting Capacity sqmm	Type	No. of Ways	Nominal Voltage V	Maximum Operating Temperature °C	Insulation Specification	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
(3 way) 1÷6	Z6-3	3	450	85	IP20	V-0 (UL 94)	23x23xh27,5	15,0	30
	Z6-3D						23x40xh36,5	18,5	10
(5 way) 1÷6	Z6-5	5	450	85	IP20	V-0 (UL 94)	35x23xh27,5	23,0	20
	Z6-5D						35x40xh36,5	26,5	10
(6 way) 1÷6	Z6-6	6	450	85	IP20	V-0 (UL 94)	23x43xh28,5	26,0	15
	Z6-6D						23x53xh33	31,0	10
(10 way) 1÷6	Z6-10	10	450	85	IP20	V-0 (UL 94)	35x43xh28,5	41,0	10
	Z6-10D						35x53xh33	46,0	15

D= Version with clamp for DIN rail

3, 5, 6 and 10 way, single pole terminal blocks for conductor section 1 to 6 sqmm.
Self contained and robust, they are quick and easy to install for both industrial and domestic use.
The indirect clamping of the "ZETApiù" terminal blocks guarantees a low and stable contact resistance.
Indirect clamping eliminates damage to the conductor strands.
The easy-entry receptacles also grant a fast and reliable insertion of the cable.

Technical features:
- **Self-extinguishing Polycarbonate body**
- **Tempered Steel clamps**
- **Electrolytically Tin plated Copper interconnections**

Z16

SINGLE POLE TERMINAL BLOCKS

indirect clamping - nominal section 16 sqmm

type ZETApiù®

Z16-3 Z16-4 Z16-5N Z16-8 Z16-12



PC | Cu-ETP ELECTROLYTIC | EASY ENTRY | 3µm TIN PLATED | 450V | IP20 | V0 UL94 | MAX +85°C

Connecting Capacity sqmm	Type	No. of Ways	Nominal Voltage V	Maximum Operating Temperature °C	Insulation Specification	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
16	Z16-3	3	450	85	IP20	V-0 (UL 94)	38x31,3xh38	52,0	20
	Z16-3D						38x50xh44	55,5	15
16	Z16-4	4	450	85	IP20	V-0 (UL 94)	27x54xh37	50,0	15
	Z16-4D						27x58xh43	54,0	10
16	Z16-5N	5	450	85	IP20	V-0 (UL 94)	61x31,5xh38	64,5	10
	Z16-5ND						61x50xh44	68,0	4
(2 way) 16 + (6 way) 6	Z16-8	8 (2÷6)	450	85	IP20	V-0 (UL 94)	35,5x50xh36,5	50,0	15
	Z16-8D						35,5x57xh42	56,0	10
(2 way) 16 + (10 way) 6	Z16-12	12 (2÷10)	450	85	IP20	V-0 (UL 94)	104,5x32,5xh36,5	115,0	8
	Z16-12D						104,5x50xh42	125,0	5

D= Version with clamp for DIN rail

3, 4, 5, 8 and 12 way, single pole terminal blocks.
Ideal for use as an equipotential bonding connector for both industrial and domestic use.

SINGLE POLE TERMINAL BLOCKS

indirect clamping - nominal section 35 sqmm

Z35

type ZETApiù®

Z35-3



Z35-4



Z35-6



Connecting Capacity sqmm	Type	No. of Ways	Nominal Voltage V	Maximum Operating Temperature °C	Insulation Specification	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
35	**Z35-3**	3	450	85	IP20	V-0 (UL 94)	53x48,5xh42	110	*10*
	Z35-3D						53x50xh48	114	*5*
35	**Z35-4**	4	450	85	IP20	V-0 (UL 94)	37x85xh42	129	*5*
	Z35-4D						37x85xh48	133	*5*
(2 way) 35 + (4 way) 16	**Z35-6**	6 (2÷4)	450	85	IP20	V-0 (UL 94)	83x41xh43	130	*8*
	Z35-6D						83x49xh52	140	*5*

D= Version with clamp for DIN rail

PC · Cu-ETP ELECTROLYTIC · EASY ENTRY · 3µm TIN PLATED · 450V · IP20 · V0 UL94 · MAX +85°C

3, 4 and 6 way, single pole terminal blocks. Ideal for use as an equipotential bonding connector for both industrial and domestic use.

SINGLE POLE TERMINAL BLOCKS

indirect clamping - for earthing applications ⏚

Z35
Z50

type ZETApiù®

Z50-10D



Z35T-11
Z35T-11D



Z35-26D



Connecting Capacity sqmm	Type	No. of Ways	Maximum Operating Temperature °C	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
(1 way) 35 + (10 way) 6	**Z35T-11**	11 (1+10)	85	V-0 (UL 94)	58x43xh42	70	*10*
	Z35T-11D				58x53xh47	75	*10*
(2 way) 35 + (24 way) 10	**Z35-26D**	26 (2+24)	85	V-0 (UL 94)	151x52xh48	379	*4*
(2 way) 50 + (8 way) 25	**Z50-10D**	10 (2+8)	85	V-0 (UL 94)	77,5x55xh49	320	*6*

D= Version with clamp for DIN rail

⏚ · PC · Cu-ETP ELECTROLYTIC · 3µm TIN PLATED · V0 UL94 · MAX +85°C

10, 11 and 26 way, single pole terminal blocks.
Ideal for use as an equipotential bonding connector for both industrial and domestic use.

CONNECTING CAPACITY OF TERMINAL BLOCKS

indirect clamping

type
ZETApiù®

Type	Nominal Section	No. of Ways x Nominal Section	Connecting Capacity of Each Way* No. of Conductors x Section	Markings
Z6-3 Z6-3D	6□	3 x 6□	1 x 6□ R/F 1 x 4□ R/F 1÷2 x 2,5□ R/F 1÷2 x 1,5□ R/F 1÷4 x 1□ R/F	6 mm² 450 V T 85°C
Z6-5 Z6-5D	6□	5 x 6□		
Z6-6 Z6-6D	6□	6 x 6□		6 mm² 450 V T 85°C
Z6-10 Z6-10D	6□	10 x 6□		
Z16-3 Z16-3D	16□	3 x 16□	1 x 16□ R/F 1 x 10□ R/F 1÷2 x 6□ R/F 1÷3 x 4□ R/F 1÷4 x 2,5□ R/F 1÷8 x 1,5□ R/F	16 mm² 450 V T 85°C
Z16-4 Z16-4D	16□	4 x 16□	1 x 16□ F 1 x 10□ F 1÷2 x 6□ F 1÷3 x 4□ F 1÷4 x 2,5□ F 1÷8 x 1,5□ F	16 mm² 450 V T 85°C
Z16-5N Z16-5ND	16□	5 x 16□	1 x 16□ R/F 1 x 10□ R/F 1÷2 x 6□ R/F 1÷3 x 4□ R/F 1÷4 x 2,5□ R/F 1÷8 x 1,5□ R/F	16 mm² 450 V T 85°C
Z16-8 Z16-8D	16□ / 6□	2 x 16□	1 x 16□ R/F 1 x 10□ R/F 1÷2 x 6□ R/F 1÷3 x 4□ R/F 1÷4 x 2,5□ R/F 1÷8 x 1,5□ R/F	16~6 mm² 450 V T 85°C
		6 x 6□	1 x 6□ R/F 1 x 4□ R/F 1÷2 x 2,5□ R/F 1÷2 x 1,5□ R/F 1÷4 x 1□ R/F	
Z16-12	16□ / 6□	2 x 16□	1 x 16□ F 1 x 10□ F 1÷2 x 6□ F 1÷3 x 4□ F 1÷4 x 2,5□ F	16~6 mm² 450 V T 85°C
Z16-12D		10 x 6□	1 x 6□ F 1 x 4□ F 1÷2 x 2,5□ F 1÷2 x 1,5□ F 1÷4 x 1□ F	

** A mixture of conductor sizes may be connected to the terminal block provided that the sum of their sections is less than the nominal section.*
R = Rigid conductor F = Flexible conductor

CONNECTING CAPACITY OF TERMINAL BLOCKS

indirect clamping

type
ZETApiù®

Type	Nominal Section	No. of Ways x Nominal Section	Connecting Capacity of Each Way* No. of Conductors x Section	Markings
Z35-3 Z35-3D	35□	3 x 35□	1 x 35□ R/F 1 x 25□ R/F 1÷2 x 16□ R/F 1÷3 x 10□ R/F 1÷5 x 6□ R/F	35 mm² 450 V T 85°C
Z35-4 Z35-4D	35□	4 x 35□	1 x 35□ F 1 x 25□ F 1÷2 x 16□ F 1÷3 x 10□ F 1÷6 x 6□ F	35 mm² 450 V T 85°C
Z35-6 Z35-6D	35□ / 16□	2 x 35□	1 x 35□ R/F 1 x 25□ R/F 1÷2 x 16□ R/F 1÷3 x 10□ R/F 1÷6 x 6□ F	35~16 mm² 450 V T 85°C
		4 x 16□	1 x 16□ R/F 1 x 10□ R/F 1÷2 x 6□ R/F 1÷3 x 4□ R/F 1÷5 x 2,5□ F	
Z35T-11 Z35T-11D	35□ / 6□	1 x 35□	1 x 35□ R/F 1 x 25□ R/F 1 x 16□ R/F 1 x 10□ R/F	35~6 mm² T 85°C
		10 x 6□	1 x 6□ R/F 1 x 4□ R/F 1÷2 x 2,5□ R/F 1÷2 x 1,5□ R/F 1÷4 x 1□ R/F	
Z35-26D	35□ / 10□	2 x 35□	1 x 35□ R/F 1 x 25□ R/F 1÷2 x 16□ R/F 1÷3 x 10□ R/F 1÷6 x 6□ R/F	35~10 mm² T 85°C
		24 x 10□	1 x 10□ R/F 1 x 6□ R/F 1÷2 x 4□ R/F 1÷4 x 2,5□ R/F	
Z50-10D	50□ / 25□	2 x 50□	1 x 50□ R/F 1 x 35□ R/F 1÷2 x 25□ R/F 1÷4 x 16□ R/F	** 50~25 mm² T 85°C
		8 x 25□	1 x 25□ R/F 1÷2 x 16□ R/F 1÷3 x 10□ R/F 1÷6 x 6□ R/F 1÷9 x 4□ R/F	

** A mixture of conductor sizes may be connected to the terminal block provided that the sum of their sections is less than the nominal section.*
R = Rigid conductor F = Flexible conductor

MARKINGS

Conforms to:

Directive 2014/35/UE

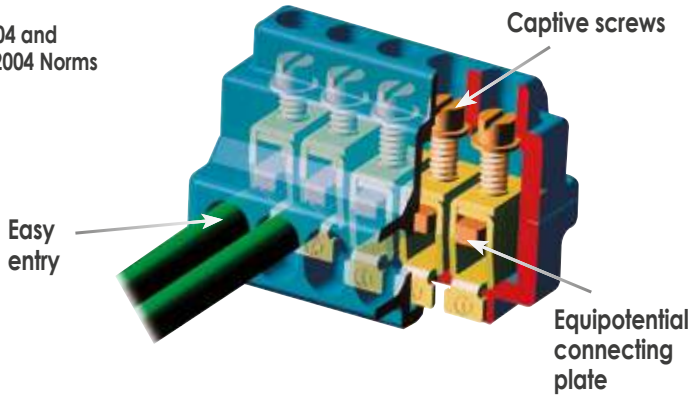
Italian Institute of the Quality Mark type approval

EN 60998-1: 2004 and EN 60998-2-1: 2004 Norms

Lloyd's Register Marine type approval

Italian Naval Register type approval

**
EN60947-1: 2007+A1: 2011: 2014 and EN 60947-7-1: 2002 Norms



CEMBRE

Z-DP

POWER DISTRIBUTION BLOCK

indirect clamping

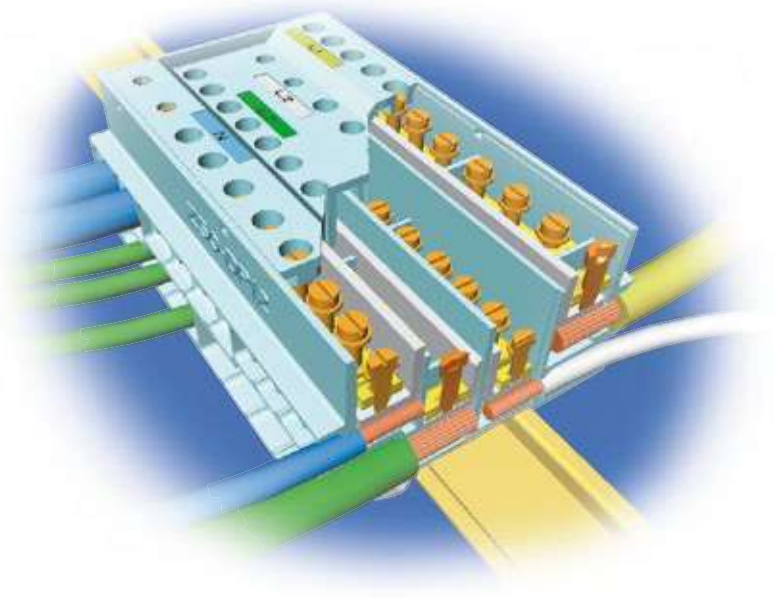
type ZETA*block*®



PC | Cu-ETP ELECTROLYTIC | 3µm TIN PLATED | Steel ZINC PLATED | V0 UL94 | 800V

Type	No. of poles	No. of Ways per pole	Nominal CSA for each pole sqmm	Maximum operating voltage (Ui)	Impulse voltage (Uimp)	Maximum operating current (In)	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions mm	Weight g	Qty
Z25-DP7-100	4	7 (2+5)	(2 way) 25 + (5 way) 6	800 V	8 kV	100 A	3 kA	18 kA	V-0 (UL 94)	70x84xh45	290	*2*
Z35-DP14-125	4	14 (2+2+10)	(2 way) 35 + (2 way) 16 + (10 way) 6	800 V	8 kV	125 A	4,2 kA	18 kA	V-0 (UL 94)	137x83xh46	700	*1*
Z35-DP14B-125	2	14 (2+2+10)	(2 way) 35 + (2 way) 16 + (10 way) 6	800 V	8 kV	125 A	4,2 kA	18 kA	V-0 (UL 94)	137x44xh46	360	*2*
Z50-DP12-160	4	12 (2+4+6)	(2 way) 50 + (4 way) 25 + (6 way) 16	800 V	8 kV	160 A	6 kA	18 kA	V-0 (UL 94)	150x84xh48	780	*1*

100, 125 and 160A, 2–4 pole distribution blocks with 7, 14 and 12 ways per pole respectively.
Accepting a wide cable CSA range (1 - 50 sqmm) and of compact size, Zetablocks are ideal for control cabinets and distribution panels.
The lateral arrangement of terminals on upper and lower faces (Z35-DP14B one face only), simplifies connection and promotes tidy, homogeneous cable routing to assist subsequent wiring operations.
Easy entry apertures provide quick, effective cable insertion while the indirect clamping feature eliminates damage to cable strands and assures a low, stable contact resistance.



Technical features:
- **Self extinguishing antishock Polycarbonate body**
- **Tempered Steel captive clamping screws and plates**
- **Electrolytically Tin plated Copper interconnectors**

POWER DISTRIBUTION BLOCK

indirect clamping

type
ZETA*block*®





CONNECTING CAPACITY OF POWER DISTRIBUTION BLOCK

indirect clamping

Type	Nominal Section	No. of Ways x Nominal Section	Connecting Capacity of Each Way No. of Conductors x Section	Markings
Z25-DP7-100	25□/6□	2 x 25□	1 x 25□ F 1 x 16□ F 1÷2 x 10□ F	CE UKCA IMQ 25÷6 sqmm
		5 x 6□	1 x 6□ F 1 x 4□ F 1÷2 x 2,5□ F 1÷2 x 1,5□ F 1÷4 x 1□ F	
Z35-DP14-125 Z35-DP14B-125	35□/16□/6□	2 x 35□	1 x 35□ F 1 x 25□ F 1÷2 x 16□ F 1÷3 x 10□ F	CE UKCA IMQ 35÷16÷6 sqmm
		2 x 16□	1 x 16□ F 1 x 10□ F 1÷2 x 6□ F 1÷3 x 4□ F 1÷4 x 2,5□ F	
		10 x 6□	1 x 6□ F 1 x 4□ F 1÷2 x 2,5□ F 1÷2 x 1,5□ F 1÷4 x 1□ F	
Z50-DP12-160	50□/25□/16□	2 x 50□	1 x 50□ F 1 x 35□ F 1÷2 x 25□ F	CE UKCA IMQ 50÷25÷16 sqmm
		4 x 25□	1 x 25□ F 1 x 16□ F 1÷2 x 10□ F	
		6 x 16□	1 x 16□ F 1 x 10□ F 1÷2 x 6□ F	

F = Flexible conductor

MARKINGS

CE

IMQ Italian Institute of the Quality Mark type approval

UKCA

Conforms to:

Directive 2014/35/UE

EN 60947-7-1: 2009 Norms

CEMBRE

Z-1

ONE WAY TERMINAL BLOCKS

indirect clamping



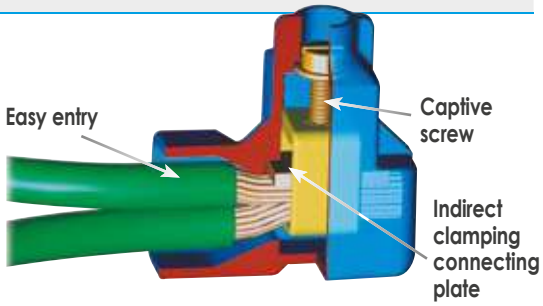
type ZETAmini®



Connecting Capacity sqmm	Type	Nominal Voltage V	Maximum Operating Temperature °C	Insulation Specification	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
2,5	**Z2.5-1**	450	85	IP20	V-0 (UL 94)	7,6x20xh23,5	3	*400/25*
6	**Z6-1**	450	85	IP20	V-0 (UL 94)	11,5x28xh29	6	*200/25*
10	**Z10-1**	450	85	IP20	V-0 (UL 94)	15,6x32xh32,5	11	*80/10*
16	**Z16-1**	450	85	IP20	V-0 (UL 94)	18x34xh38	15	*60/10*
25	**Z25-1**	450	85	IP20	V-0 (UL 94)	20,8x42,5xh43,5	29	*50/10*
35	**Z35-1**	450	85	IP20	V-0 (UL 94)	25x45xh51,5	37	*40/10*

One way, single pole terminal blocks for conductors sections from 0.5 to 35 sqmm.
Self contained and robust, they are ideal for the fast and safe installation for industrial and domestic applications.
The indirect clamping of the "ZETAmini" terminal blocks guarantees a low and stable contact resistance.
The easy-entry receptacle also grants a fast and reliable insertion of the cable.
Technical features:

- **Self-extinguishing Polycarbonate body**
- **Electrolytically Zinc plated, tempered Steel clamp and screw**
- **Electrolytically Tin plated Steel connection plate**



Type	Nominal Section	Connecting Capacity of Each Way* No. of Conductors x Section		Markings
Z2.5-1	2,5□	2 x 2,5□ R/F 2÷3 x 1,5□ R/F 2÷5 x 1,0□ R/F	2÷6 x 0,75□ R/F 2÷10 x 0,5□ R/F 2÷18 x Ø 0,4÷0,6 mm communication type wire	2,5 sqmm 450 V T 85°C IP 20
Z6-1	6□	2 x 6□ R/F 2÷3 x 4□ R/F 2÷4 x 2,5□ R/F 2÷6 x 1,5□ R/F 2÷6 x 1□ R/F	2÷10 x 0,75□ R/F 2÷12 x 0,5□ R/F (1 x 6□ F) + (4 x 1,5□ F) (1 x 6□ F) + (2 x 2,5□ F)	6 sqmm 450 V T 85°C IP 20
Z10-1	10□	2 x 10□ R/F 2÷3 x 6□ R/F 2÷5 x 4□ R/F 2÷8 x 2,5□ R/F	2÷12 x 1,5□ R/F 2÷20 x 1□ R/F 2÷25 x 0,75□ R/F	10 sqmm 450 V T 85°C IP 20
		(1 x 6□ F) + (1 x 4□ F) + (2 x 2,5□ F) + (3 x 1,5□ F)		
Z16-1	16□	2 x 16□ R/F 2÷3 x 10□ R/F 2÷5 x 6□ R/F	2÷8 x 4□ R/F 2÷12 x 2,5□ R/F 2÷18 x 1,5□ R/F	16 sqmm 450 V T 85°C IP 20
Z25-1	25□	2 x 25□ R/F 2÷3 x 16□ R/F 2÷4 x 10□ R/F	2÷8 x 6□ R/F 2÷11 x 4□ R/F 4÷16 x 2,5□ R/F	25 sqmm 450 V T 85°C IP 20
Z35-1	35□	2 x 35□ R/F 2÷3 x 25□ R/F 2÷4 x 16□ R/F 2÷7 x 10□ R/F	2÷11 x 6□ R/F 4÷17 x 4□ R/F 5÷28 x 2,5□ R/F	35 sqmm 450 V T 85°C IP 20

**A mixture of conductor sizes may be connected to the terminal block provided that the sum of their sections is less than twice the nominal section.*
R = Rigid conductor F = Flexible conductor

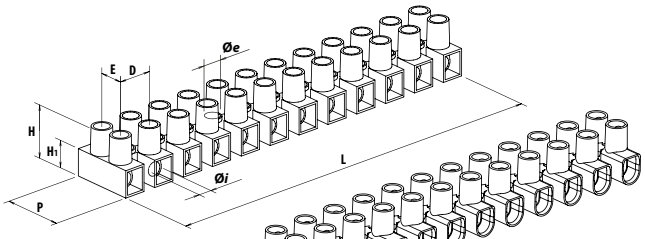
Conforms to:

Directive 2014/35/UE

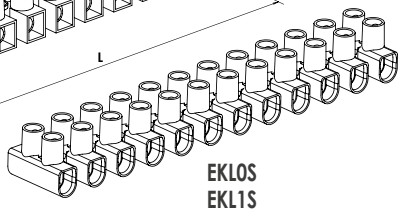
EN 60998-1: 2004 and
EN 60998-2-1: 2004 Norms

TERMINAL BLOCK TYPE EKL

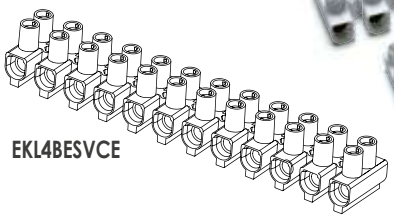
EKL



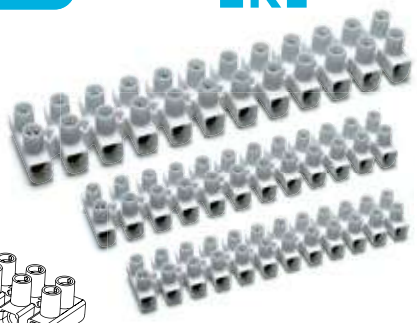
EKL0EPA12N
EKL1BEPA12N
EKL2EPA12N
EKL3EM4PA12N



EKL0S
EKL1S
EKL2S
EKL3S



EKL4BESVCE



Type 12 Poles of Polyamide (PA6.6)

	Type	Nominal section sqmm	Dimensions mm								Screw	Quantity
			Øi	Øe	L 12 poles	H	H1	P	E	D		
□	EKL0EPA12N	2,5	3,0	2,6	94,0	14,5	9,2	16,4	6,0	8,0	M3	50
□	EKL1BEPA12N	4	3,4	3,2	116,2	15,7	8,3	20,2	10,0	10,0	M3	30
□	EKL2EPA12N	10	4,3	3,2	139,8	20,0	10,8	23,1	10,0	12,0	M3,5	20
□	EKL3EM4PA12N	16	5,8	4,1	171,8	24,8	14,7	32,1	13,0	14,5	M4*	25

* Combination head screws

□ Nominal voltage: 450 V
Ambient temperature: max 110°C

NEW PA6.6 Steel CHROME V2 UL94 CE UKCA

Material:
- **Block made of chromium plated Brass**
- **Screw made of chromium plated Steel**

Variants upon request for version en Polyamide PA6.6
N° of poles from 1 to 11:
- eplace reference 12 with n° of required poles
- Versions with protection plate: add reference "DSN"

EKL 0E PA | XX | XX
N° poles — DSN version with protective blade

DSN

Type 12 Poles of Polypropylene (PP)

PP Steel CHROME CE HF HALOGEN FREE

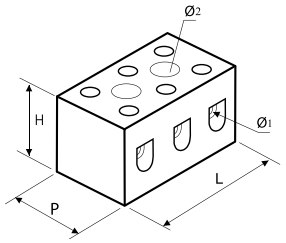
	Type	Nominal section sqmm	Dimensions mm								Screw	Quantity
			Øi	Øe	L 12 poles	H	H1	P	E	D		
●	EKL0S	4	3,2	2,65	94,9	13,0	-	16,6	6,4	8,1	M2,6	50
●	EKL1S	6	3,5	3,4	116,5	14,9	-	18,9	7,3	10,0	M3	30
●	EKL2S	10	4,3	3,7	133,8	17,3	-	23,4	10,0	11,5	M3,5	15
●	EKL3S	16	5,5	4,9	174,5	25,0	-	20,7	11,0	15,0	M4	25
◇	EKL4BESVCE	25	7,0	4,0	187,3	28,0	-	30,0	11,0	16,0	M5	25

● Nominal voltage: 450 V
Ambient temperature: max 80°C

◇ Nominal voltage: 750 V
Ambient temperature: max 80°C

TERMINAL BLOCK TYPE ZS

ZS





Type	Nominal section sqmm		No. of poles	Dimensions mm					Quantity
	Low Str.	Flex		Ø1	Ø2	L	H	P	
ZS-U6	4/6	4	1	2,8	-	9	18	19	200
ZS-B6	4/6	4	2	2,8	4,0	22	18	19	80
ZS-T6	4/6	4	3	2,8	4,0	36	18	19	60
ZS-U10	10	6	1	4,3	-	13	20	21	200
ZS-B10	10	6	2	4,3	4,8	24	20	21	80
ZS-T10	10	6	3	4,3	4,8	36	20	21	70
ZS-U16	16	10	1	6,1	-	15	22	27	100
ZS-B16	16	10	2	6,1	5,0	31	22	27	50
ZS-T16	16	10	3	6,1	5,0	48	22	27	30

STEATITE Steel ZINC PLATED BRASS 450V MAX +350°C CE

Material:
- **insulating body in STEATITE**
- **screw in GALVANIZED STEEL**
- **BRASS clamp**

Nominal voltage: 450 V
Operating temperature: 350°C

CEMBRE

DB/1N

UNIPOLAR DISTRIBUTION BLOCKS

direct clamping



DBLOCK UNIPOLAR SERIES

- 80, 125, 160, 250, 400, 500 A distribution blocks
- Versions available with 6, 7 or 11 outputs (see table)
- Wire entry facilitated by chamfered entry holes and clamping screws
- Terminals maintain excellent stability of the connection over time
- Connection can be expanded through dedicated unipolar jumpers (can be used for types DB125-7/1N and DB160-7/1N)





PC · PA 6.6 · BRASS · 3µm TIN PLATED · Steel ZINC PLATED · V0 UL94 · IP20 · 1000V · c UL us File no. E523349 · CE · UK CA

Type	N° inputs	Connecting Capacity in mm²	N° outputs	Connecting Capacity out mm²	IEC® 60947-7-1 Nominal voltage	IEC® 60947-7-1 Nominal Current	UL® 1059 Nominal voltage	UL® 1059 Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions mm	Weight g	Qty
DB80-6/1N	1	6÷16	6 (4+2)	(4) 2,5÷6 (2) 2,5÷16	1000 V	80 A	600 V	85 A	3 kA	22 kA	V-0 (UL 94)	66x27xh46	70	5
DB125-7/1N	1	10÷35	7 (6+1)	(6) 2,5÷16 (1) 6÷16	1000 V	125 A	600 V	150 A	4.2 kA	30 kA	V-0 (UL 94)	77x29xh46	142	5
DB160-7/1N	1	10÷70	7 (6+1)	(6) 2,5÷16 (1) 6÷16	1000 V	160 A	600 V	200 A	11.8 kA	30 kA	V-0 (UL 94)	77x29xh46	136	5
DB250-11/1N	1	35÷120	11 (2+5+4)	(2) 6÷35 (5) 2,5÷16 (4) 2,5÷10	1000 V	250 A	600 V	255 A	24.5 kA	51 kA	V-0 (UL 94)	96x46xh50	423	3
DB400-11/1N	1	95÷185	11 (2+5+4)	(2) 6÷35 (5) 2,5÷16 (4) 2,5÷10	1000 V	400 A	600 V	335 A	24.5 kA	51 kA	V-0 (UL 94)	96x46xh50	402	3
DB500-11/1N	1	8x24 Flex. Busbar	11 (2+5+4)	(2) 6÷35 (5) 2,5÷16 (4) 2,5÷10	1000 V	500 A	600 V	335 A	24.5 kA	51 kA	V-0 (UL 94)	96x46xh50	388	3

DB/2

BIPOLAR DISTRIBUTION BLOCKS

direct clamping



DBLOCK BIPOLAR SERIES

- 40, 100, 125 A bipolar distribution blocks
- Versions available with 6, 13, 14 or 15 outputs (see table)
- Wire entry facilitated by chamfered entry holes
- Terminals maintain excellent stability of the connection over time



PC · PA 6.6 · BRASS · Steel ZINC PLATED · V0 UL94 · 500V · 690V · CE · UK CA

Type	N° inputs	Connecting Capacity in mm²	N° outputs	Connecting Capacity out mm²	Nominal voltage	Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
DB40-15/2	2	6÷16 4÷10	15	1,5÷4 / 0,75÷4	500 V	40 A	4.5 kA	22 kA	V-0 (UL 94)	50x130xh50	216	1
DB100-6/2	1	10÷25	6 (3+3)	(3) 1,5÷4 / 0,75÷4 (3) 2,5÷6 / 1,5÷6	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	50x64xh50	110	1
DB100-13/2	2	10÷25	13 (6+7)	(6) 1,5÷4 / 0,75÷4 (7) 2,5÷6 / 1,5÷6	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	50x130xh50	208	1
DB125-6/2	1	10÷35	6 (5+1)	(5) 2,5÷6 / 1,5÷6 (1) 10÷25 / 6÷16	690 V	125 A	4.5 kA	18 kA	V-0 (UL 94)	50x94xh50	160	1
DB125-14/2	1	10÷35	14 (11+3)	(11) 2,5÷6 / 1,5÷6 (3) 10÷25 / 6÷16	690 V	125 A	4.5 kA	18 kA	V-0 (UL 94)	50x162xh50	266	1
DB125-14/2C	2	10÷35 10÷16	13 (11+2)	(11) 2,5÷6 / 1,5÷6 (2) 10÷25 / 6÷16	500 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	50x130xh50	204	1

TETRAPOLAR DISTRIBUTION BLOCKS

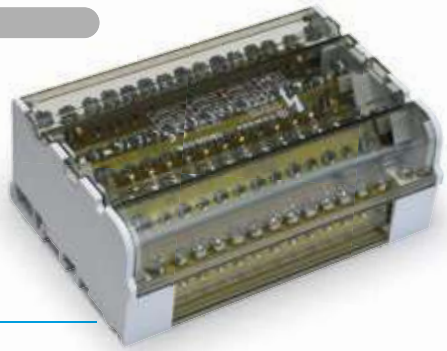
direct clamping

DB/4



DBLOCK TETRAPOLAR

- 40, 100, 125, 160 A distribution blocks
- Versions available with 6, 13, 14 or 15 outputs (see table)
- Wire entry facilitated by chamfered entry holes
- Terminals maintain excellent stability of the connection over time



PC · PA 6.6 · BRASS · Steel ZINC PLATED · V0 UL94 · 500V · 690V · CE · UK CA

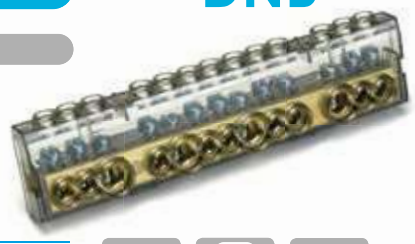
Type	N° inputs	Connecting Capacity in mm²	N° outputs	Connecting Capacity out mm²	Nominal voltage	Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Self Extinguishing Specification	Dimensions mm	Weight g	Quantity
DB40-11/4	2	6÷16 4÷10	11	1,5÷4 / 0,75÷4	500 V	40 A	4.5 kA	22 kA	V-0 (UL 94)	90x100xh50	351	1
DB100-6/4	1	10÷25	6 (3+3)	(3) 1,5÷4 / 0,75÷4 (3) 2,5÷6 / 1,5÷6	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	90x64xh50	230	1
DB100-13/4	2	10÷25	13 (6+7)	(6) 1,5÷4 / 0,75÷4 (7) 2,5÷6 / 1,5÷6	500 V	100 A	4.5 kA	20 kA	V-0 (UL 94)	90x130xh50	444	1
DB125-6/4	1	10÷35	6 (5+1)	(5) 2,5÷6 / 1,5÷6 (1) 10÷25 / 6÷16	690 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	90x109xh50	326	1
DB125-10/4	1	10÷35	10 (7+3)	(7) 2,5÷6 / 1,5÷6 (3) 10÷25 / 6÷16	690 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	90x147xh50	440	1
DB125-10/4C	2	10÷35 10÷16	9 (7+2)	(7) 2,5÷6 / 1,5÷6 (2) 10÷25 / 6÷16	500 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	90x100xh50	306	1
DB125-14/4	1	10÷35	14 (11+1+2)	(11) 2,5÷6 / 1,5÷6 (1) 10÷25 / 6÷16 (2) 10÷35 / 10÷25	690 V	125 A	4.2 kA	14.5 kA	V-0 (UL 94)	90x182xh50	586	1
DB125-14/4C	2	10÷35 10÷16	13 (11+2)	(11) 2,5÷6 / 1,5÷6 (2) 10÷25 / 6÷16	500 V	125 A	4.5 kA	20 kA	V-0 (UL 94)	90x130xh50	398	1
DB160-11/4	1	10÷50	11 (3+7+1)	(3) 10÷35 / 10÷25 (7) 2,5÷16 / 1,5÷16 (1) 2,5÷6 / 1,5÷6	690 V	160 A	8.2 kA	35 kA	V-0 (UL 94)	96x175xh50	738	1

ACCESSORIES

neutral bars

DNB





PC · BRASS · Steel ZINC PLATED · CE · UK CA

Type	N° inputs	Connecting Capacity in mm²	N° outputs	Connecting Capacity out mm²	Nominal voltage	Nominal Current	Allowable short duration fault current (Icw)	Maximum allowed peak fault current (Ipk)	Type Application	Length mm	Weight g	Quantity
DNB125-9	4	10÷25 / 6÷16	9	2,5÷6 / 1,5÷6	-	125 A	4.5 kA	30 kA	DB125-10/4 DB125-14/4	142	172	1
DNB160-10	4	10÷35 / 10÷25	10	2,5÷16 / 1,5÷16	-	160 A	6.2 kA	35 kA	DB160-11/4	168	192	1

unipolar jumper

DJ160

Cu · PVC · CE · UK CA



Type	Nominal Current	Type Application	Length mm	Weight g	Quantity
DJ160	125 A - 160 A	DB125-7/1N - DB160-7/1N	37	29	5

CEMBRE

SFI

INSULATED FLEXIBLE BUSBAR





Designation

SFI	8	x	24	x	1
Insulated flexible busbar	Number of strips		Strip width mm		Strip thickness mm

Cu-ETP ELECTROLYTIC · PVC · MAX +85°C · V0 UL94 · c UL us File no. E326218

Concept and design

CEMBRE SFI series insulated flexible busbar comprises a set of Cu strips within an insulated sleeve - for widths 9-50mm this is extruded PVC, for widths 63-100mm it is heat shrunk material.
The dielectic strength of the insulation is guaranteed independent of the eventual formation of the busbar and its working conditions (humidity, temperature and environmental aggressors).

Dimensions

Standard length:
2000 mm (consult us for other lengths)
Strip thickness:
0,5 - 1 mm
Number of strips:
2 - 12.

Applications

- Power distribution, substituting cable with extruded insulation and rigid busbar
- Electrical equipment (racks, circuit breakers, rectifiers)
- Transformers

Advantages

Insulated flexible busbar is a self-contained system combining convenient layout and connection with assured insulation and self-supporting construction, resulting in reduced cost installations with extreme ease of use.

Compared to plain busbar:

- Higher current capacity size for size
- Space saving as individual insulated busbars may be positioned in closer proximity
- Layout easier and quicker due to flexibility
- Insulated support not required.

Compared to cables:

- Simple and rapid installation
- Space saving due to tighter bend radius
- Insulated support not required.

Principle of selection

The following charts allow selection of the appropriate configuration based on:
- ambient temperature of 35°C
- required current carrying capacity in Amps
- maximum permitted temperature increase

Example of selection

Required current carrying capacity per phase is 630A.
Maximum permitted temperature in the equipment enclosure is 85°C:
- ambient temperature is 35°C
- maximum permitted temperature rise is 85°C - 35°C = 50°C

The possible selections are where the red vertical line (630A) intersects the green temperature band (50°C):

SFI8X24X1
SFI6X32X1
SFI4X40X1

The final selection will depend on limitations relating to connection palm width.

Technical features

PVC Insulation (for width 9 - 50mm):
- Colour: Black
- Density: 1,36 g/cm^3
- Hardness: 86 Shore A
- Breaking resistance: ≃ 18 MPa
- Breaking elongation: ≃ 300 %
- Self-extinguishing class: Vo (UL94)

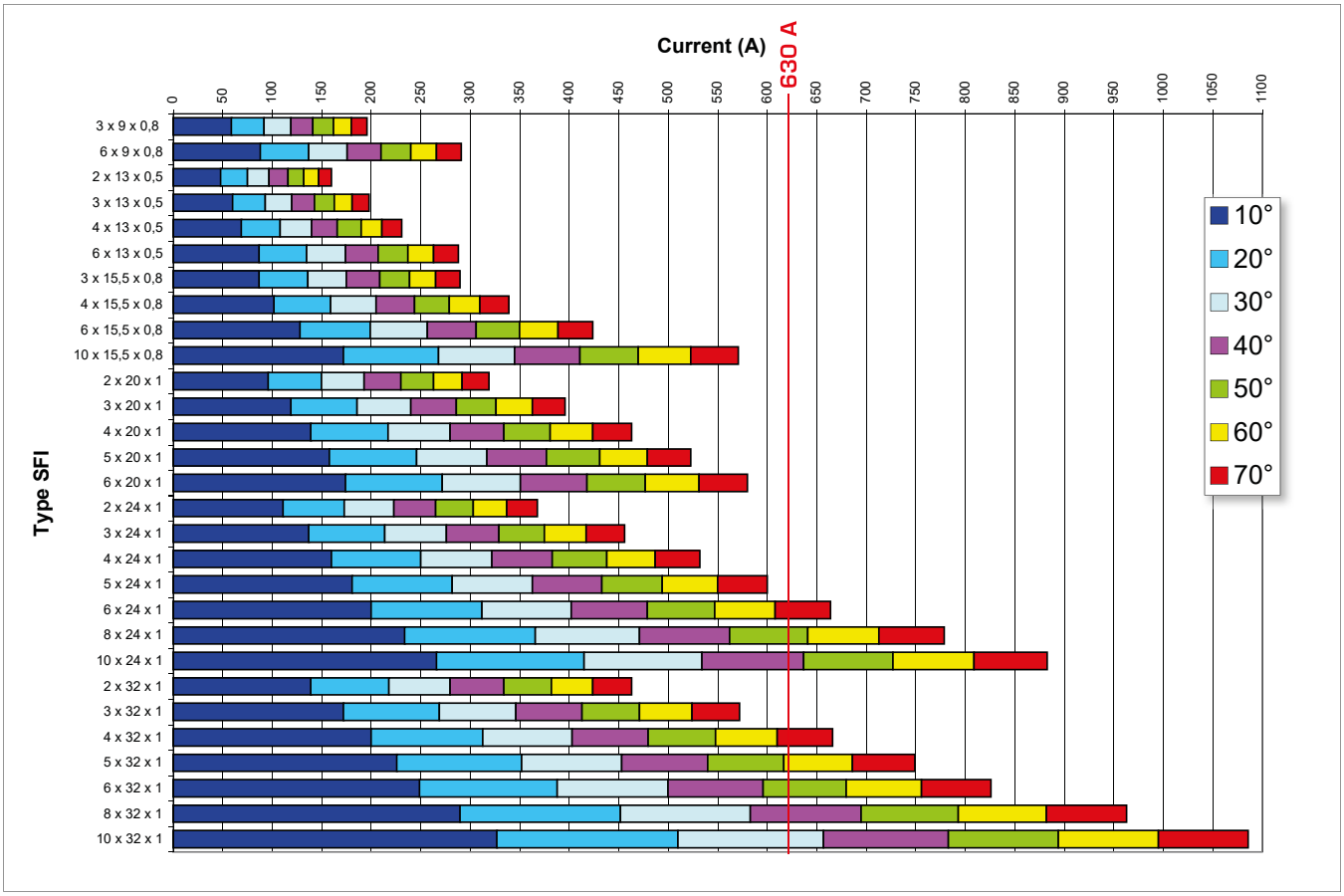
Strip:
- Copper designation: Cu-ETP
- Copper purity min: 99,9%
- Max electrical resistivity at 20°C: 1,7241μΩ/cm (100% IACS)
- Breaking resistance min: 200MPa
- Breaking elongation min: 30%
- Hardness: <55 HV
- Surface protection: Sm 99
- Thickness of tin plating: 2 ÷ 4 μm

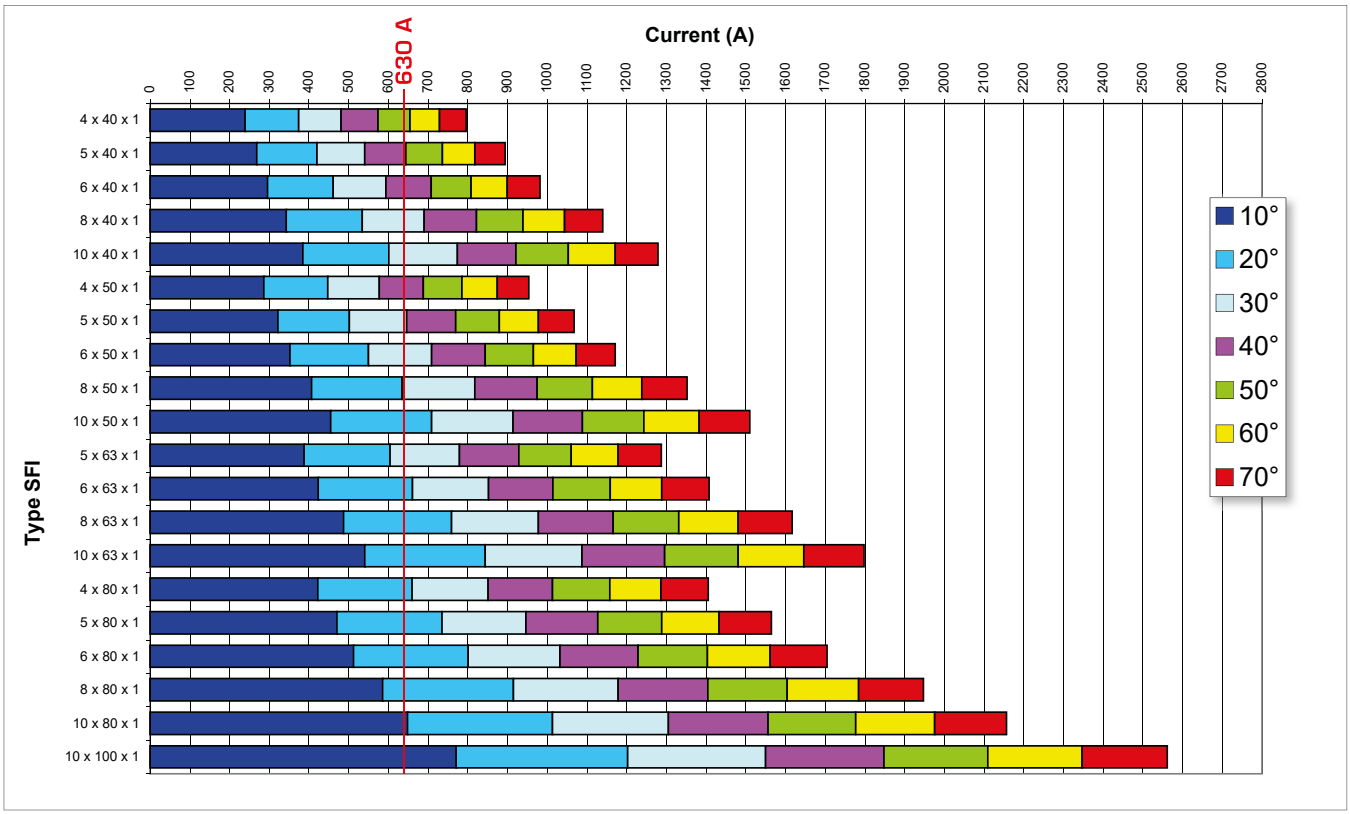
Insulated flexible busbar:
- max working voltage: 1000 V AC /1500 V DC
- Working temperature: –40°C ÷ +105°C
- Average thickness of extruded PVC: 2mm
- Average dielectric strength between conductor and earth: 15 kV/mm (50Hz) between conductors: 30 kV/mm (50Hz)

Total conductor c.s.a. sqmm	Type
21,6	SFI3X9X0.8
43,2	SFI6X9X0.8
13,0	SFI2X13X0.5
19,5	SFI3X13X0.5
26	SFI4X13X0.5
39	SFI6X13X0.5
24,8	SFI2X15.5X0.8
37,2	SFI3X15.5X0.8
49,6	SFI4X15.5X0.8
74,4	SFI6X15.5X0.8
124	SFI10X15.5X0.8
40	SFI2X20X1
60	SFI3X20X1
80	SFI4X20X1
100	SFI5X20X1
120	SFI6X20X1
48	SFI2X24X1
72	SFI3X24X1
96	SFI4X24X1
120	SFI5X24X1
144	SFI6X24X1
192	SFI8X24X1
240	SFI10X24X1
64	SFI2X32X1
96	SFI3X32X1
128	SFI4X32X1
160	SFI5X32X1
192	SFI6X32X1
256	SFI8X32X1
320	SFI10X32X1
160	SFI4X40X1
200	SFI5X40X1
240	SFI6X40X1
320	SFI8X40X1
400	SFI10X40X1
200	SFI4X50X1
250	SFI5X50X1
300	SFI6X50X1
400	SFI8X50X1
500	SFI10X50X1
315	SFI5X63X1
378	SFI6X63X1
504	SFI8X63X1
630	SFI10X63X1
320	SFI4X80X1
480	SFI6X80X1
640	SFI8X80X1
800	SFI10X80X1
1000	SFI10X100X1

Current carrying capacity (A)

Temperature increase for each configuration based on an ambient temperature of 35°C

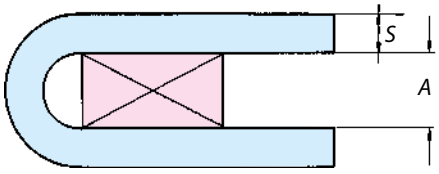




Mechanical bending and torsion testing

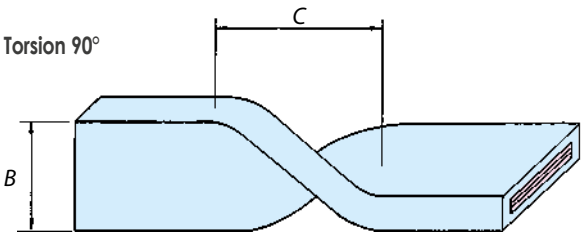
Test temperatures: –10°C and +80° C.

Bending 180°



S = Bar thickness (conductor + insulation)
A = 2 x S

Torsion 90°



B = Bar width (conductor + insulation)
C = 1,5 x B

In both cases the tests do not show damage to the insulation



Insulated flexible busbar installation

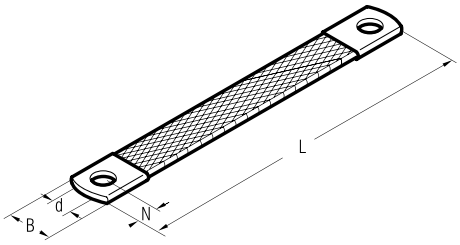
Bending:
Small section configurations may be bent manually. When tooling is used, protect the insulated sleeve of the busbar from damage.
As the Cu strips move relative to each other during bending, this operation should be completed before drilling.

Drilling:
Drilling templates type **MFB 13-40** and type **MFB 50-63** (available as optional extras) are designed to facilitate accurate location of fixing holes in the busbar of Ø 8, 10, 12 mm.
It is recommended that the insulation of the busbar is not removed before drilling is completed, as it assists the operation.



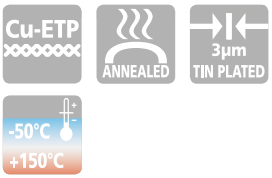
Template type	includes drilling inserts	for bar width mm
MFB 13-40	SFB13-16	for bar width 13÷15,5 mm
	SFB20-24	for bar width 20÷24 mm
	SFB32-40	for bar width 32÷40 mm
MFB 50-63	SFB50-63	for bar width 50÷63 mm

FLEXIBLE BRAIDS





Size sqmm	Ø Stud mm	Type	Dimensions mm				Quantity
			B	N	L	d	
10	8	**FL10-150**	17	10	150	8,5	50
	8	**FL10-200**	17	10	200	8,5	50
	8	**FL10-250**	17	10	250	8,5	50
16	8	**FL16-150**	17	10	150	8,5	50
	8	**FL16-200**	17	10	200	8,5	50
	8	**FL16-250**	17	10	250	8,5	50
	8	**FL16-320**	17	10	320	8,5	50
	8	**FL16-350**	17	10	350	8,5	50
	8	**FL16-420**	17	10	420	8,5	25
	8	**FL16-570**	17	10	570	8,5	25
	8	**FL16-660**	17	10	660	8,5	25
25	8	**FL25-150**	21	10	150	8,5	50
	8	**FL25-200**	21	10	200	8,5	50
	8	**FL25-250**	21	10	250	8,5	50
	8	**FL25-300**	21	10	300	8,5	50



Flexible braids are manufactured from electrolytic Copper wire.
Braids of different conductor sizes or lengths are available on request.
Standard finish - bright Copper.
Flexible braids can be supplied Tin plated, in this case add the suffix "ST" to reference.

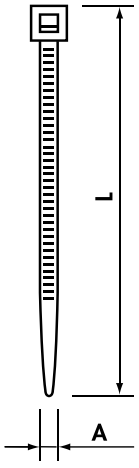
E.g.:
- FL10-150 (Bright Copper)
- FL10-150-ST (Tin plated)

CEMBRE

PA 6.6 | V2 UL94 | -40°C +120°C | HF HALOGEN FREE



Material: PA6.6 Polyamide
Self-extinguishing V2 (UL 94)
Humidity absorption:
2,5% (at 50% relative humidity)
Operating temperature:
From –40°C to +85°C (continuous)
From –40°C to +120°C (short periods)
Resistant to:
oils, greases, oil products, chlorinated solvents.
Colour: Natural or Black (Ral 2005)





Black ties have higher UV resistance due to increased carbon black loading



Natural ties offer rapid installation due to the low friction coefficient of the material

Cable Ties in PA6.6

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity	
G80X2.4	80	2,4	15	8	100	Minimum order: 1.000 pcs
G80X2.4N						
G80X2.4/M					1000	
G80X2.4N/M						
G90X2.4	90		16		100	
G90X2.4N						
G100X2.5	100	2,5	22			
G100X2.5N						
G100X2.5/M					1000	
G100X2.5N/M						
G120X2.5	120		30		100	
G120X2.5N						
G140X2.5	140		33			
G140X2.5N						
G140X2.5/M					1000	
G140X2.5N/M					1000	
G160X2.5	160		40		100	
G160X2.5N						
G160X2.5/M					1000	
G160X2.5N/M						
G200X2.5	200		53		100	
G200X2.5N						
G200X2.5/M					1000	
G200X2.5N/M						
G250X2.8	250	2,8	65	14	100	
G250X2.8N						
G300X2.8	300		76			
G300X2.8N						
G120X3.6	120	3,6	30	18		
G120X3.6N						
G140X3.6	140		33			
G140X3.6N						
G140X3.6/M					1000	
G140X3.6N/M						
G150X3.6	150		35		100	
G150X3.6N						
G180X3.6	180		44			
G180X3.6N						
G200X3.6	200		53			
G200X3.6N						
G200X3.6/M					1000	
G200X3.6N/M						
G250X3.6	250		65		100	
G250X3.6N						
G300X3.6	300		76			
G300X3.6N						
G300X3.6/M					1000	
G300X3.6N/M						
G370X3.6	370		102		100	
G370X3.6N						
G120X4.8	120	4,8	24	22		
G120X4.8N						
G160X4.8	160		38			
G160X4.8N						
G190X4.8	190		46			
G190X4.8N						
G190X4.8/M					1000	
G190X4.8N/M						
G200X4.8	200		50		100	
G200X4.8N						
G200X4.8/M					1000	
G200X4.8N/M						
G250X4.8/M	250		60			
G250X4.8N/M						
G250X4.8	250		60		100	Minimum order: 100 pcs
G250X4.8N						
G280X4.8	280		70			
G280X4.8N						
G300X4.8	300		76			
G300X4.8N						
G370X4.8	370		102			
G370X4.8N						
G390X4.8	390		105			
G390X4.8N						
G430X4.8	430		110			
G430X4.8N						

Note: In Type, N = Black

Recommended tools are shown on page 203

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

Cable Ties in PA6.6

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity	
G450X4.8 G450X4.8N	450	4,8	116	22	100	Minimum order: 100 pcs
G530X4.8 G530X4.8N	530		140			
G150X7.6 G150X7.6N	150	7,6	33	55		
G200X7.6 G200X7.6N	200		50			
G250X7.6 G250X7.6N	250		65			
G300X7.6 G300X7.6N	300		76			
G370X7.6 G370X7.6N	370		102			
G430X7.6 G430X7.6N	430		125			
G530X7.6 G530X7.6N	530		140			
G430X9.0 G430X9.0N	430	9,0	110	80		
G530X9.0 G530X9.0N	530		140			
G710X9.0 G710X9.0N	710		190			
G780X9.0 G780X9.0N	780		228			
G830X9.0 G830X9.0N	830		239			
G920X9.0 G920X9.0N	920		263			
G1020X9.0 G1020X9.0N	1020		295			
G1220X9.0 G1220X9.0N	1220		365			
G230X12.6 G230X12.6N	230	12,6	50	115		
G380X12.6	380		106			
G480X12.6 G480X12.6N	480		120			
G580X12.6 G580X12.6N	580		152			
G730X12.6 G730X12.6N	730		204			
G880X12.6 G880X12.6N	880		248			
G1030X12.6 G1030X12.6N	1030		295			

Note: In Type, N = Black

Recommended tools are shown on page 203

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

PA 6.6 | V2 UL94 | -40°C +120°C | HF HALOGEN FREE





Angled tongue to facilitate easy introduction into the buckle

Rounded corners for increased safety

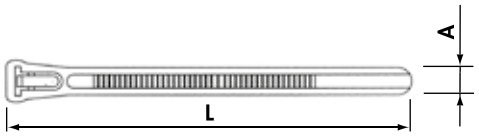
GR

CABLE TIES

GR series, PA6.6 Polyamide

PA 6.6 | V2 UL94 | -40°C +120°C | HF HALOGEN FREE

Same features as G series.
Easy installation without tools.
Released by pressure on the tongue.
Suitable for temporary locking.





Releasable cable ties in PA6.6

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity
GR100X7.6N	100	7,6	20	22,2	100
GR120X7.6N	120		30		
GR150X7.6N	150		35		
GR200X7.6N	200		50		
GR250X7.6N	250		66		
GR300X7.6N	300		80		
GR370X7.6N	370		102		

Recommended tools are shown on page 203

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

GFH

CABLE TIES

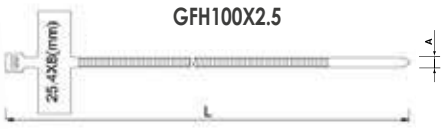
GFH series, PA6.6 Polyamide

PA 6.6 | V2 UL94 | -40°C +120°C | HF HALOGEN FREE



Same features as G series.
Quick and easy identification of bundled conductors.
Write on panel with Felt tip pen.

GFH100X2.5



GFHT112X2.5



Markable cable ties in PA6.6

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity
GFH100X2.5	100	2,5	18	8,1	100
GFHT112X2.5	112				

Recommended tools are shown on page 203

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

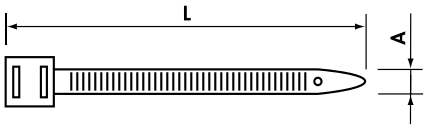
1600

CABLE TIES

1600 series, Elastomerized Polymer on Polyamide base

PA12 | HB UL94 | -45°C +120°C | UV RESISTANT | HF HALOGEN FREE

Resistant to: UV, salt atmosphere, oils, greases, oil products
Colour: Black





Cable Ties in PA12 Polyamide

Type	Head Type	L (mm)	A (mm)	Min. Bundle Ø (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity
1618.90	single	180	9	15	40	40	100
1626.90	double	260	9	30	60	55	100
1636.90	double	360	9	30	93	55	100
1651.90	double	510	9	70	140	55	100
1676.90	double	760	9	70	220	55	100

Recommended tools are shown on page 203

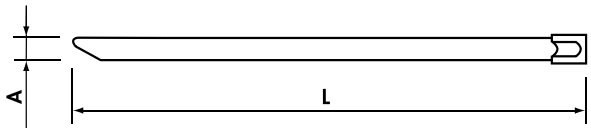
The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

Material: Elastomerized Polymer on Polyamide base
Self-extinguishing HB (UL94)
Halogen free
Operating temperature:
From –45°C to +85°C (continuous)
From –45°C to +120°C (short periods)

CABLE TIES

GX

GX series, in Stainless Steel AISI 304



STAINLESS STEEL | -80°C +500°C



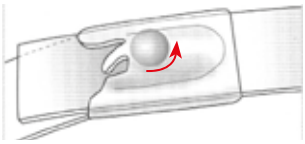
Cable Ties in Stainless Steel

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity
GX200X4.5	200	4,5	50	46	100
GX300X4.5	300		76		
GX370X4.5	370		102		
GX520X4.5	520		156		
GX370X7.9	370	7,9	102	114	
GX680X7.9	680		207		
GX1020X7.9	1020		312		

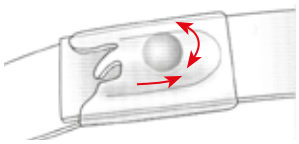
Recommended tools are shown on page 203

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

Material:
Stainless Steel AISI 304
Unique ball locking mechanism that allows simple and rapid installation and secure locking.
Operating temperature:
From –80°C to +500°C
High tensile strength.
Non-flammability.
High resistance to acetic acid, alkalies, sulphuric acid, corrosion, etc.
In general very resistant to most hostile environments.



Insert the tongue into the buckle. The internal locking ball rolls freely as the tie is tightened.



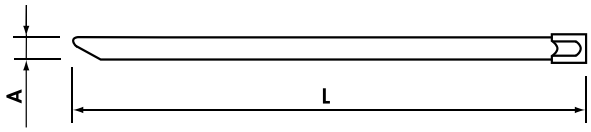
Once the correct tension is reached, use the specific tool to trim the tongue.
The ball then wedges into the buckle locking it tightly against both the top and bottom of the tie.



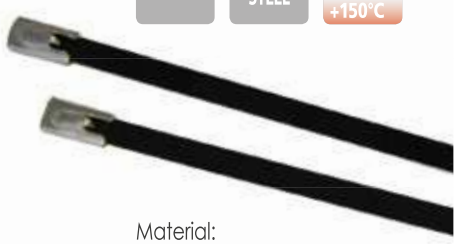
CABLE TIES

GXAC

GXAC series, 316 Stainless Steel coated with Polyester



POLYESTER | STAINLESS STEEL | -40°C +150°C



Coated Stainless Steel cable ties

Type	L (mm)	A (mm)	Max. Bundle Ø (mm)	Min. Loop Tensile Strength (kg)	Quantity
GXAC125X4.6	125	4,6	38,0	46	100
GXAC150X4.6	150		46,0		
GXAC200X4.6	200		61,9		
GXAC260X4.6	260		81,0		
GXAC290X4.6	290		90,6		
GXAC360X4.6	360		112,8		
GXAC520X4.6	520		163,8		
GXAC680X4.6	680		214,8		
GXAC840X4.6	840		265,7		
GXAC200X7.9	200	7,9	61,9	114	
GXAC290X7.9	290		90,6		
GXAC360X7.9	360		112,8		
GXAC520X7.9	520		163,8		
GXAC680X7.9	680		214,8		
GXAC840X7.9	840		265,7		

Recommended tools are shown on page 203

The dimensions shown in the table must be considered as nominal. CEMBRE reserves the right to make changes without prior notice

Material:
316 stainless steel for the most corrosive environments coated with Polyester for insulation purpose, and a better outdoor application
Colour: Black
Smooth surface and rounded edges assures cable protection and user safety. Equipped with unique ball locking mechanism that allows simple and rapid installation and secure locking.
Operating temperature:
da –40°C a +150°C
High tensile strength
Very resistant to ultraviolet radiation and chemical corrosion
Non flammable

AB, CC, SS

ACCESSORIES

PA6.6 Polyamide



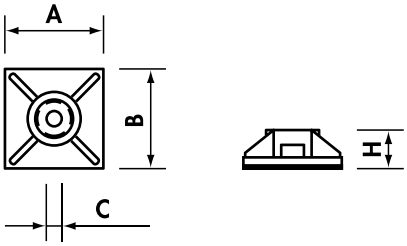
PA 6.6 | V2 UL94 | -40°C +120°C

Material: PA6.6 Polyamide
Self-extinguishing V2 (UL 94)
Humidity absorption:
2,5% (at 50% relative humidity)
Operating temperature:
From –40°C to +85°C (continuous)
From –40°C to +120°C (short periods)

Resistant to:
oils, bases, greases, oil products, chlorinated solvents.
Colour: Natural

Attention:
acrylic adhesive; to obtain the best result, wait at least 6 - 8 hours before applying the load.

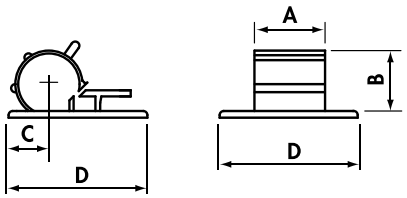




Self adhesive cable tie bases in PA6.6

Type	Max Tie (mm)	A (mm)	B (mm)	C (mm)	H (mm)	Fixing screw hole Ø (mm)	Quantity
AB13*	2,8	13,0	13,0	3,2	3,2	-	100
AB19*	3,6	19,0	19,0	4,0	4,4	3,1	100
AB28*	4,8	28,0	28,0	5,3	5,7	5,5	100

***Add to Ref: N for Black**



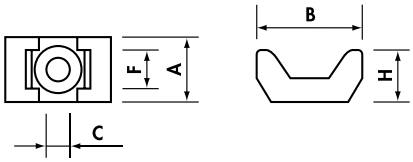


Self adhesive cable clips in PA6.6

Type	Cable Ø (mm)	A (mm)	B (mm)	C (mm)	D (mm)	Quantity
CC8.9	8-9	9,0	12,0	8,0	21,5	100
CC9.12	9-12	12,0	15,0	8,2	21,5	100



Cable tie saddle clamps in PA6.6



Type	Max Tie (mm)	A (mm)	B (mm)	C (mm)	F (mm)	H (mm)	Quantity
SS4.8-3.7	4,8	9,5	15	3,7	5,0	7,2	100
SS4.8-4.5	4,8	9,5	15	4,5	5,0	7,2	100
SS9-4.5	9	16,0	22	4,5	9,2	9,7	100
SS9-5	9	16,0	22	5,0	9,2	9,7	100
SS9-6.4	9	16,0	22	6,4	9,2	9,7	100

GH8

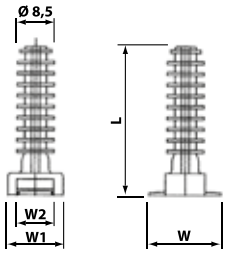
ACCESSORIES

PA6.6 Polyamide

PA 6.6 | V2 UL94 | -40°C +120°C



Same features as G series.
Push into Ø 8 mm hole.
Cable tie inserted through slot in head.



Stud fixing for cable ties in PA6.6

Type	W (mm)	W1 (mm)	W2 (mm)	L (mm)	Fixing hole Ø (mm)	Quantity
GH8	20	15	10	40,5	8	100

INSULATED COVERS

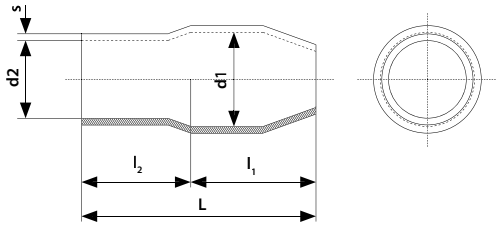
ES

For uninsulated connectors





PVC | V0 UL94 | MAX +85°C



Insulated covers in PVC for general use with CEMBRE A-M copper tube lugs characterised by environmental tolerance, flexibility, not inflammability & stable performance. Widely used for the insulation and protection of connections and electrical terminations.

General features:

- Material: PVC
- Self extinguishing (UL94): V0
- Working temperature: 85 °C
- Colours: red, yellow, blue, black, grey, brown.

Type	Connectors A-M *	d1 Ø	d2 Ø	l1 ±1	l2 ±1	L ± 2	s ± 0.2	Quantity	Minimum Order Qty
ES03-..	A03	3.3	3.1	7.0	8.0	15.0	0.6	*100*	*3.000*
ES06-..	A06	4.5	3.7	8.0	8.0	16.0	0.7	*100*	
ES1-..	A1	5.7	4.1	9.0	9.0	18.0	0.8	*100*	
ES2-..	A2	7.2	6.2	11.0	10.0	21.0	1.0	*100*	
ES3-..	A3	10.0	8.0	15.0	13.0	28.0	1.1	*100*	*1.000*
ES5-..	A5	12.0	9.5	15.0	14.0	29.0	1.2	*100*	
ES10-..	A7, A9, A10	14.0	11.8	17.0	17.0	34.0	1.4	*100*	
ES14-..	A12, A14	17.0	13.9	22.0	20.0	42.0	1.5	*100*	*500*
ES19-..	A17, A19	19.0	16.0	25.0	21.0	46.0	1.5	*50*	
ES24-..	A20, A24	22.0	18.0	31.0	24.0	55.0	1.7	*50*	*200*
ES30-..	A29, A30	24.0	20.0	32.0	28.0	60.0	1.8	*50*	
ES37-..	A35, A37	26.0	22.0	34.0	31.0	65.0	1.8	*50*	
ES40-..	A40	32.2	24.0	38.0	31.0	69.0	2.0	*50*	
ES48-..	A48	36.5	27.2	42.0	33.0	75.0	2.0	*50*	*100*
ES80-..	A60, A80	36.7	30.0	42.0	33.0	75.0	2.0	*25*	

Add the suffix corresponding to the selected colour to the reference:

-BU blue, -GY grey, -BR brown, -BK black, -RE red, -YE yellow,

** See A-M type copper tube lugs on pages 34-35, 37*
*** Depending on the diameter of the insulated cable*

CEMBRE

TCS

TERMOCOIL HEAT-SHRINKABLE TUBING

flame-retardant Polyolefin - shrinkage ratio 2÷1



Heat-shrinkable Polyolefin tubing coil for general use; is environmentally neutral, flexible, not inflammable and offers fast heat shrinkage and stable performance.
Main uses include insulation and protection of electrical conductors, connectors and terminations; protection of metal tubes from corrosion; protection of antennae and various identification applications.

For general characteristics and technical specifications see page 106.

- Colours: Black, Red, White, Blue, Transparent, Yellow, Green, Grey, Brown, Yellow/Green.
- Packaging: Coil on Reel

		before shrinking	after shrinking		
Type	Coil Length	Internal Ø mm	Internal Ø mm	Thickness mm	Colour
TCS12X200BK	200 m	Ø 1,1 mm	Ø 0,50 mm	0,33 mm	BLACK
TCS16X200BK	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLACK
TCS24X200BK	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLACK
TCS32X200BK	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLACK
TCS48X100BK	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLACK
TCS64X100BK	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLACK
TCS95X100BK	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLACK
TCS127X100BK	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLACK
TCS160X100BK	100 m	Ø 16,5 mm	Ø 8,00 mm	0,70 mm	BLACK
TCS190X100BK	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLACK
TCS254X50BK	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLACK
TCS320X50BK	50 m	Ø 31,5 mm	Ø 15,0 mm	1,00 mm	BLACK
TCS381X50BK	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BLACK
TCS508X25BK	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BLACK
TCS762X25BK	25 m	Ø 70,0 mm	Ø 36,0 mm	1,30 mm	BLACK
TCS1016X25BK	25 m	Ø 100,0 mm	Ø 51,0 mm	1,30 mm	BLACK
TCS1260X25BK	25 m	Ø 120,0 mm	Ø 61,0 mm	1,30 mm	BLACK
TCS1500X25BK	25 m	Ø 150,0 mm	Ø 76,0 mm	1,30 mm	BLACK
TCS16X200RE	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	RED
TCS24X200RE	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	RED
TCS32X200RE	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	RED
TCS48X100RE	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	RED
TCS64X100RE	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	RED
TCS95X100RE	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	RED
TCS127X100RE	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	RED
TCS190X100RE	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	RED
TCS254X50RE	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	RED
TCS16X200WH	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	WHITE
TCS20X200WH	200 m	Ø 2,0 mm	Ø 0,85 mm	0,36 mm	WHITE
TCS24X200WH	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	WHITE
TCS32X200WH	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	WHITE
TCS48X100WH	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	WHITE
TCS64X100WH	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	WHITE
TCS95X100WH	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	WHITE
TCS127X100WH	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	WHITE
TCS190X100WH	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	WHITE
TCS254X50WH	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	WHITE
TCS16X200BU	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLUE
TCS24X200BU	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLUE
TCS32X200BU	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLUE
TCS48X100BU	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLUE
TCS64X100BU	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLUE
TCS95X100BU	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLUE
TCS127X100BU	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLUE
TCS190X100BU	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLUE
TCS254X50BU	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLUE
TCS381X50BU	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BLUE
TCS508X25BU	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BLUE

TERMOCOIL HEAT-SHRINKABLE TUBING

TCS

flame-retardant Polyolefin - shrinkage ratio 2÷1









Type	Coil Length	before shrinking Internal Ø mm	after shrinking Internal Ø mm	after shrinking Thickness mm	Colour
TCS12X200TR	200 m	Ø 1,1 mm	Ø 0,50 mm	0,33 mm	TRANSPARENT
TCS16X200TR	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	TRANSPARENT
TCS24X200TR	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	TRANSPARENT
TCS32X200TR	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	TRANSPARENT
TCS48X100TR	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	TRANSPARENT
TCS64X100TR	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	TRANSPARENT
TCS95X100TR	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	TRANSPARENT
TCS127X100TR	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	TRANSPARENT
TCS160X100TR	100 m	Ø 16,5 mm	Ø 8,00 mm	0,70 mm	TRANSPARENT
TCS190X100TR	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	TRANSPARENT
TCS254X50TR	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	TRANSPARENT
TCS320X50BK	50 m	Ø 31,5 mm	Ø 15,0 mm	1,00 mm	TRANSPARENT
TCS381X50TR	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	TRANSPARENT
TCS508X25TR	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	TRANSPARENT
TCS762X25TR	25 m	Ø 70,0 mm	Ø 36,0 mm	1,30 mm	TRANSPARENT
TCS1016X25TR	25 m	Ø 100,0 mm	Ø 51,0 mm	1,30 mm	TRANSPARENT
TCS1260X25TR	25 m	Ø 120,0 mm	Ø 61,0 mm	1,30 mm	TRANSPARENT
TCS1500X25TR	25 m	Ø 150,0 mm	Ø 76,0 mm	1,30 mm	TRANSPARENT
TCS16X200YE	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	YELLOW
TCS24X200YE	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	YELLOW
TCS32X200YE	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	YELLOW
TCS48X100YE	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	YELLOW
TCS64X100YE	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	YELLOW
TCS95X100YE	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	YELLOW
TCS127X100YE	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	YELLOW
TCS190X100YE	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	YELLOW
TCS254X50YE	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	YELLOW
TCS16X200GN	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	GREEN
TCS24X200GN	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	GREEN
TCS32X200GN	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	GREEN
TCS48X100GN	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	GREEN
TCS64X100GN	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	GREEN
TCS95X100GN	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	GREEN
TCS127X100GN	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	GREEN
TCS190X100GN	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	GREEN
TCS254X50GN	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	GREEN
TCS16X200GY	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	GREY
TCS24X200GY	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	GREY
TCS32X200GY	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	GREY
TCS48X100GY	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	GREY
TCS64X100GY	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	GREY
TCS95X100GY	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	GREY
TCS127X100GY	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	GREY
TCS190X100GY	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	GREY
TCS254X50GY	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	GREY
TCS381X50GY	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	GREY
TCS508X25GY	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	GREY
TCS16X200BR	200 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BROWN
TCS24X200BR	200 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BROWN
TCS32X200BR	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BROWN
TCS48X100BR	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BROWN
TCS64X100BR	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BROWN
TCS95X100BR	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BROWN
TCS127X100BR	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BROWN
TCS190X100BR	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BROWN
TCS254X50BR	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BROWN
TCS381X50BR	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BROWN
TCS508X25BR	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BROWN
TCS32X200Y/G	200 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	YELLOW/GREEN
TCS48X100Y/G	100 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	YELLOW/GREEN
TCS64X100Y/G	100 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	YELLOW/GREEN
TCS95X100Y/G	100 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	YELLOW/GREEN
TCS127X100Y/G	100 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	YELLOW/GREEN
TCS190X100Y/G	100 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	YELLOW/GREEN
TCS254X50Y/G	50 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	YELLOW/GREEN
TCS381X50Y/G	50 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	YELLOW/GREEN
TCS508X25Y/G	25 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	YELLOW/GREEN

CEMBRE

TSS

TERMOSTRIP HEAT-SHRINKABLE TUBING

flame-retardant Polyolefin - shrinkage ratio 2÷1



SHRINKABLE -55°C +125°C File no. E472117 HF HALOGEN FREE

Heat-shrinkable Polyolefin tubing strip for general use; is environmentally neutral, flexible, not inflammable and offers fast heat shrinkage and stable performance.
Main uses include insulation and protection of electrical conductors, connectors and terminations; protection of metal tubes from corrosion; protection of antennae and various identification applications.

For general characteristics and technical specifications see page 106.

- Colours: Black, Red, White, Blue, Transparent, Yellow, Green, Grey, Brown, Yellow/Green.
- Packaging: Strips in Box

		before shrinking	after shrinking			
Type	Strip Length	Internal Ø mm	Internal Ø mm	Thickness mm	Colour	Quantity Strips per box
TSS12BK	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	BLACK	30
TSS16BK	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLACK	30
TSS24BK	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLACK	30
TSS32BK	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLACK	30
TSS48BK	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLACK	30
TSS64BK	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLACK	30
TSS95BK	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLACK	20
TSS127BK	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLACK	15
TSS190BK	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLACK	10
TSS254BK	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLACK	6
TSS380BK	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BLACK	4
TSS510BK	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BLACK	2
TSS12RE	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	RED	30
TSS16RE	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	RED	30
TSS24RE	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	RED	30
TSS32RE	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	RED	30
TSS48RE	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	RED	30
TSS64RE	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	RED	30
TSS95RE	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	RED	20
TSS127RE	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	RED	15
TSS190RE	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	RED	10
TSS254RE	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	RED	6
TSS380RE	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	RED	4
TSS510RE	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	RED	2
TSS12WH	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	WHITE	30
TSS16WH	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	WHITE	30
TSS24WH	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	WHITE	30
TSS32WH	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	WHITE	30
TSS48WH	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	WHITE	30
TSS64WH	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	WHITE	30
TSS95WH	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	WHITE	20
TSS127WH	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	WHITE	15
TSS190WH	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	WHITE	10
TSS254WH	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	WHITE	6
TSS380WH	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	WHITE	4
TSS510WH	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	WHITE	2
TSS12BU	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	BLUE	30
TSS16BU	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLUE	30
TSS24BU	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLUE	30
TSS32BU	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLUE	30
TSS48BU	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLUE	30
TSS64BU	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLUE	30
TSS95BU	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLUE	20
TSS127BU	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLUE	15
TSS190BU	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLUE	10
TSS254BU	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLUE	6
TSS380BU	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BLUE	4
TSS510BU	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BLUE	2
TSS12TR	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	TRANSPARENT	30
TSS16TR	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	TRANSPARENT	30
TSS24TR	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	TRANSPARENT	30
TSS32TR	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	TRANSPARENT	30
TSS48TR	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	TRANSPARENT	30
TSS64TR	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	TRANSPARENT	30
TSS95TR	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	TRANSPARENT	20
TSS127TR	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	TRANSPARENT	15
TSS190TR	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	TRANSPARENT	10
TSS254TR	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	TRANSPARENT	6
TSS380TR	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	TRANSPARENT	4
TSS510TR	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	TRANSPARENT	2

TERMOSTRIP HEAT-SHRINKABLE TUBING

TSS

flame-retardant Polyolefin - shrinkage ratio 2÷1









		before shrinking	after shrinking				
Type	Strip Length	Internal Ø mm	Internal Ø mm	Thickness mm	Colour		Quantity Strips per box
TSS12YE	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	YELLOW		30
TSS16YE	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	YELLOW		30
TSS24YE	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	YELLOW		30
TSS32YE	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	YELLOW		30
TSS48YE	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	YELLOW		30
TSS64YE	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	YELLOW		30
TSS95YE	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	YELLOW		20
TSS127YE	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	YELLOW		15
TSS190YE	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	YELLOW		10
TSS254YE	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	YELLOW		6
TSS380YE	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	YELLOW		4
TSS510YE	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	YELLOW		2
TSS12GN	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	GREEN		30
TSS16GN	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	GREEN		30
TSS24GN	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	GREEN		30
TSS32GN	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	GREEN		30
TSS48GN	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	GREEN		30
TSS64GN	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	GREEN		30
TSS95GN	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	GREEN		20
TSS127GN	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	GREEN		15
TSS190GN	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	GREEN		10
TSS254GN	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	GREEN		6
TSS380GN	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	GREEN		4
TSS510GN	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	GREEN		2
TSS12GY	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	GREY		30
TSS16GY	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	GREY		30
TSS24GY	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	GREY		30
TSS32GY	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	GREY		30
TSS48GY	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	GREY		30
TSS64GY	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	GREY		30
TSS95GY	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	GREY		20
TSS127GY	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	GREY		15
TSS190GY	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	GREY		10
TSS254GY	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	GREY		6
TSS380GY	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	GREY		4
TSS510GY	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	GREY		2
TSS12BR	1,22 m	Ø 1,1 mm	Ø 0,5 mm	0,33 mm	BROWN		30
TSS16BR	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BROWN		30
TSS24BR	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BROWN		30
TSS32BR	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BROWN		30
TSS48BR	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BROWN		30
TSS64BR	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BROWN		30
TSS95BR	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BROWN		20
TSS127BR	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BROWN		15
TSS190BR	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BROWN		10
TSS254BR	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BROWN		6
TSS380BR	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	BROWN		4
TSS510BR	1,22 m	Ø 50,0 mm	Ø 25,0 mm	1,10 mm	BROWN		2
TSS16Y/G	1,22 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	YELLOW/GREEN		30
TSS24Y/G	1,22 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	YELLOW/GREEN		30
TSS32Y/G	1,22 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	YELLOW/GREEN		30
TSS48Y/G	1,22 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	YELLOW/GREEN		30
TSS64Y/G	1,22 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	YELLOW/GREEN		30
TSS95Y/G	1,22 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	YELLOW/GREEN		20
TSS127Y/G	1,22 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	YELLOW/GREEN		15
TSS190Y/G	1,22 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	YELLOW/GREEN		10
TSS254Y/G	1,22 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	YELLOW/GREEN		6
TSS380Y/G	1,22 m	Ø 36,5 mm	Ø 17,5 mm	1,00 mm	YELLOW/GREEN		4

CEMBRE

TBS

TERMOBLOCK HEAT-SHRINKABLE TUBING

flame-retardant Polyolefin - shrinkage ratio 2÷1





General characteristics:

- Operating temperature: -55°C + 125°C
- Minimum shrinkage temperature: 70°C
- Temperature for complete shrinkage: 110°C
- RoHS compliant
- Colours: Black, Red, White, Blue, Grey, Brown, Yellow/Green.
- Packaging: Roll in Dispenser Box

Heat-shrinkable Polyolefin tubing for general use; is environmentally neutral, flexible, not inflammable and offers fast heat shrinkage and stable performance.

Main uses include insulation and protection of electrical conductors, connectors and terminations; protection of metal tubes from corrosion; protection of antennae and various identification applications.

Technical Specifications:

Property	Test Method	Performance
Traction resistance (MPa):	ASTM D2671	≥10.4
Elongation at failure (%):	ASTM D2671	≥200
Traction resistance after heat aging (MPa):	UL 224 158°Cx168hr	≥7.3
Elongation at failure after heat aging (%):	UL 224 158°Cx168hr	≥100
Heat resistance:	UL 224 250°Cx4hr	No failure
Low temperature flexibility:	UL 224 -30°Cx4hr	No failure
Dielectric strength (kv/mm):	IEC 243	≥15
Insulation resistance:	600V UL 224	No perforation at 2500V
Volume resistance (Ω.cm):	IEC 93	$\geq 1x10^{14}$
Corrosive action:	UL 224 158°Cx168hr	Not corrosive
Copper compatibility:	UL 224 158°Cx168hr	Not corrosive
Flammability:	UL 224	VW-1

		before shrinking	after shrinking		
Type	Reel Length	Internal Ø mm	Internal Ø mm	Thickness mm	Colour
TBS16X20BK	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLACK
TBS24X20BK	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLACK
TBS32X10BK	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLACK
TBS48X10BK	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLACK
TBS64X10BK	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLACK
TBS95X10BK	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLACK
TBS127X10BK	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLACK
TBS190X5BK	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLACK
TBS254X5BK	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLACK
TBS16X20RE	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	RED
TBS24X20RE	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	RED
TBS32X10RE	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	RED
TBS48X10RE	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	RED
TBS64X10RE	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	RED
TBS95X10RE	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	RED
TBS127X10RE	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	RED
TBS190X5RE	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	RED
TBS254X5RE	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	RED
TBS16X20WH	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	WHITE
TBS24X20WH	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	WHITE
TBS32X10WH	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	WHITE
TBS48X10WH	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	WHITE
TBS64X10WH	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	WHITE
TBS95X10WH	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	WHITE
TBS127X10WH	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	WHITE
TBS190X5WH	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	WHITE
TBS254X5WH	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	WHITE
TBS16X20BU	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BLUE
TBS24X20BU	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BLUE
TBS32X10BU	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BLUE
TBS48X10BU	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BLUE
TBS64X10BU	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BLUE
TBS95X10BU	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BLUE
TBS127X10BU	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BLUE
TBS190X5BU	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BLUE
TBS254X5BU	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BLUE

		before shrinking	after shrinking		
Type	Reel Length	Internal Ø mm	Internal Ø mm	Thickness mm	Colour
TBS16X20GY	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	GREY
TBS24X20GY	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	GREY
TBS32X10GY	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	GREY
TBS48X10GY	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	GREY
TBS64X10GY	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	GREY
TBS95X10GY	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	GREY
TBS127X10GY	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	GREY
TBS190X5GY	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	GREY
TBS254X5GY	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	GREY
TBS16X20BR	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	BROWN
TBS24X20BR	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	BROWN
TBS32X10BR	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	BROWN
TBS48X10BR	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	BROWN
TBS64X10BR	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	BROWN
TBS95X10BR	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	BROWN
TBS127X10BR	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	BROWN
TBS190X5BR	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	BROWN
TBS254X5BR	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	BROWN
TBS16X20Y/G	20 m	Ø 1,5 mm	Ø 0,65 mm	0,36 mm	YELLOW/GREEN
TBS24X20Y/G	20 m	Ø 2,5 mm	Ø 1,00 mm	0,45 mm	YELLOW/GREEN
TBS32X10Y/G	10 m	Ø 3,0 mm	Ø 1,30 mm	0,45 mm	YELLOW/GREEN
TBS48X10Y/G	10 m	Ø 4,7 mm	Ø 2,00 mm	0,45 mm	YELLOW/GREEN
TBS64X10Y/G	10 m	Ø 6,5 mm	Ø 3,00 mm	0,56 mm	YELLOW/GREEN
TBS95X10Y/G	10 m	Ø 9,5 mm	Ø 4,50 mm	0,56 mm	YELLOW/GREEN
TBS127X10Y/G	10 m	Ø 12,5 mm	Ø 6,00 mm	0,56 mm	YELLOW/GREEN
TBS190X5Y/G	5 m	Ø 19,0 mm	Ø 9,00 mm	0,70 mm	YELLOW/GREEN
TBS254X5Y/G	5 m	Ø 26,0 mm	Ø 12,5 mm	0,90 mm	YELLOW/GREEN

PET EN 50393 DIN VDE0291

Shells

Manufactured from transparent synthetic material which allows a visual check of the connections before and after casting.
The halves of the shell are joined by snap closures which avoid further fixing or sealing.

Shells are left on after casting to provide additional protection against mechanical abrasion, chemical agents and severe weather conditions.

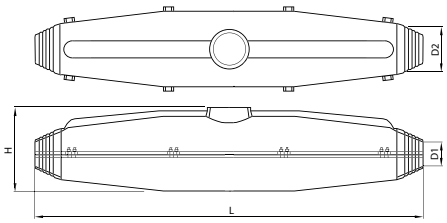




STRAIGHT JOINTS

Type	Dimensions mm				Dimensions Cable	
	L	H	D1(1)	D2(1)	Cable Diameter mm	Indicative Cable Section (2) mm²
N11	200	50	8	26	8 - 25	4C x 1,5 ÷ 10
N12	260	67	16	32	16 - 31	4C x 10 ÷ 25
N13	360	75	21	38	21 - 36	4C x 35 ÷ 50
N14	400	100	26	41	26 - 39	4C x 50 ÷ 70
N15	530	130	35	56	35 - 54	4C x 95 ÷ 150
N16	700	150	47	74	45 - 72	4C x 185 ÷ 300

(1) Internal dimension of the shell
(2) Indicative cable sections are approximate and concern only harmonised, PVC or Rubber insulated cables at a working voltage of 0,6/1 kV

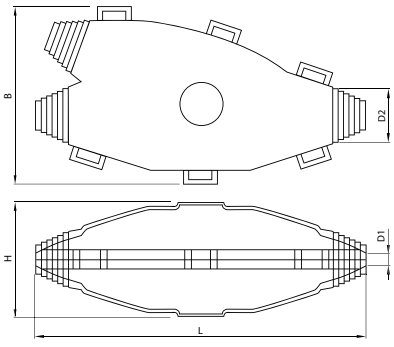




BRANCH JOINTS

Type	Dimensions mm					Dimensions Cable		
	L	H	B	D1(1)	D2(1)	Cable Diameter mm	Indicative Cable Section (2) mm²	
							Passante	Derivato
NY00	150	47	70	11	20	11 - 20	4C x 1,5 ÷ 2,5	4C x 1,5
NY0	175	60	94	6	22	6 - 21	4C x 4 ÷ 10	4C x 4
NY1	225	75	110	9	26	9 - 24	4C x 6 ÷ 25	4C x 16

(1) Internal dimension of the shell
(2) Indicative cable sections are approximate and concern only harmonised, PVC or Rubber insulated cables at a working voltage of 0,6/1 kV



CAST RESIN JOINTS

cast resin, low voltage through joints

Cast resin technology

PUR-cast resin technology was introduced to seal and protect power, signal and telephone cable joints.
This new generation of two component cast resin has been developed for the most demanding environments and circumstances.

CEMBRE cast resin joints meet the requirements of EN50393 and DIN VDE 57291-2 (VDE0291).
Quick setting properties in humid or even cold conditions make it a fast and reliable solution.

No external measuring or mixing is required as this takes place within an Aluminium foil pouch, avoiding spillage and errors during installation.
Unmixed resin components have a 48 month shelf-life even in the most difficult storage conditions.

Shells are made of durable PET resulting in good hydrophobic properties and excellent impact resistance, while good adhesion to PVC and metals assures a watertight seal.

Technical characteristic	Test result	Requirement of DIN VDE 0291
Pot life @		
5°C	35 min	
23°C	20 min	product conforms ± 30%
35°C	15 min	
Reactant open cup flash point	> 200 °C	> 55
Tensile strength	≥ 8.0 Mpa	≥ 5.0
Hot aging	- 5 Shore A	- 7
Adhesive	> 1500 CP. S	-
Elongation at break	≥ 100%	≥ 50%
Gel time for 300 ml @	23 °C	
Pouch >1000 ml	26 min	product conforms ± 10%
Pouch <1000 ml	17 min	product conforms ± 10%
Max. reaction temp.	60 °C / 333 K	product conforms ± 10%
Total vol. variability when hardening	6 %	max. 6.5 %
Cast resin component open cup flash point	> 200 °C	> 100
Density	1.07 g / cm3	-
Impact strength	> 10 kJ / m2	> 10 kJ / m2
Hardness	75 Shore A	min. 20 Shore D
Expansion coefficient in temp. range 20-50°C	5.9 x 10-4 K-1	product conforms ± 15%
Thermal conductivity	0.2W x m-1 x K-1	product conforms ± 20%
Flammability	Class II c	acc. to DIN VDE 0304, part 3
Water absorption 42 days@50°C	360 mg	max. 400 mg
Electrolytic corrosion	A1	-
Voltage test @		no breakdown @ test voltage
23°C	> 20 kV	> 20 kV
80°C	> 10 kV	> 20 kV
Dielectric dissipation factor @		
23°C and 50 Hz	0.08	max. 0.1
23°C and 1k Hz	0.05	-
Relative permittivity		
@ 23°C and 50 Hz	5	< 6
@ 23°C and 1k Hz	5.1	-
Tracking resistance	KA 3c	min KA 3c
After 28 days of immersion in 90°C water		
Tensile strength	8.2N/mm^2	≥ 65% of initial value
Elongation at break	60%	≥ 65% of initial value
Hardness	47 Shore	≥ 80% of initial value

CABLE GLANDS AND ACCESSORIES



symbol description

cable glands and accessories

PA 6.6 — Polyamide PA6.6 body

PA 6 — Polyamide PA6 body

NEOPRENE — Neoprene material

PS — Polystyrene body

BRASS — Brass body

3µm NICKEL PLATED — Protected by Nikel plated to avoid oxidation

STAINLESS STEEL — Stainless steel body

STEEL ZINC PLATED — Galvanized Steel body

NBR — Nitrile-butadiene material

PVC — Polyvinylchloride material

EPDM — EPDM rubber material

ABS — ABS material

-15°C +50°C — Operating temperature range

IP68.5 — Degree of protection

V2 UL94 — V2 UL94 self-extinguishing class

VDE marking

ATEX marking

c UL us File no. E220310 — USL-CNL marking valid in USA & CANADA

c UL us File no. E220310 — USR-CNR marking valid in USA & CANADA

NEMA 6P — NEMA marking

CE marking

UKCA marking

EN 45545-2 — Meets the requirements for fire testing of materials and components for trains EN 45545-2:2015

HF HALOGEN FREE — Halogen Free



MAXIblock®



POLYAMIDE CABLE GLANDS
WITH PROTECTION IP 68

spiralblock®



POLYAMIDE CABLE GLANDS
WITH PROTECTION IP 68

MAXIbrass®



NICKEL PLATED BRASS CABLE GLANDS
WITH PROTECTION IP 68

MAXIinox



STAINLESS STEEL CABLE GLANDS
WITH PROTECTION IP 68

1900

MAXIBLOCK CABLE GLANDS

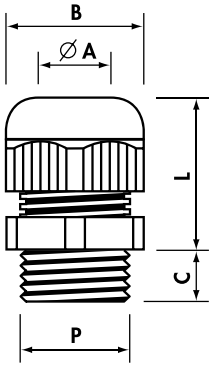
Polyamide PA6.6



MAXIblock®

PA 6.6 | IP68 | V2 UL94 | -40°C +100°C | DVE | cULus File no. E220310 | cULus File no. E220310 | NEMA 6P | NEMA 12 | CE | UKCA | EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring
for sizes from M32 to M63
Protection: IP 68
Colour: RAL 7035 light grey,
RAL 9005 black, RAL 7001 dark grey



standard

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1900.M12	M12x1,5	12,2	3,5- 7	15	8	18-22	100
1900.M16	M16x1,5	16,2	5 -10	19	8	22-27	100
1900.M20	M20x1,5	20,5	7 -13	25	9	24-30	100
1900.M25	M25x1,5	25,4	10 -17	30	10	28-39	50
1900.M32	M32x1,5	32,5	13 -21	36	10	33-44	25
1900.M40	M40x1,5	40,5	19 -28	46	10	36-45	15
1900.M50	M50x1,5	50,5	27 -35	55	12	43-52	10
1900.M63	M63x1,5	64,0	34 -45	66	12	45-55	5

Add to Ref: N for Black, G for Dark Grey

extended cable entry

NEW

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1940.M20	M20x1,5	20,5	10 -**14**	27	10	26-31	50
1940.M25	M25x1,5	25,5	13 -**18**	33	11	30-35	50
1940.M32	M32x1,5	32,5	20 -**25**	42	12	33-39	25
1940E.M40	M40x1,5	40,5	22 -**32**	53	14	42-49	10
1941E.M40	M40x1,5	40,5	22 -**32**	53	18	42-49	10
1940.M40	M40x1,5	40,5	26 -**34**	53	14	42-49	10
1941.M40	M40x1,5	40,5	26 -**34**	53	18	42-49	10
1940.M50	M50x1,5	50,5	30 -**38**	60	14	42-50	5
1940E.M50	M50x1,5	50,5	35 -**41**	66	14	45-55	5
1940.M63	M63x1,5	64,0	45 -**52**	75	15	52-60	4

Add to Ref: N for Black

Comparative table of clamping range of plastic cable glands available on page. 394

Technical data pages 389 to 398

Polyamide PA6.6

MAXIblock®



reduced cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1910.M12	M12x1,5	12,2	2- 5	15	8	18-22	*100*
1910.M16	M16x1,5	16,2	3- 7	19	8	22-27	*100*
1910.M20	M20x1,5	20,5	5-10	25	9	24-30	*100*
1910.M25	M25x1,5	25,4	7-13	30	10	28-39	*50*
1910.M32	M32x1,5	32,5	8-14	36	10	33-44	*25*
1910.M40	M40x1,5	40,5	15-23	46	10	36-45	*15*
1910.M50	M50x1,5	50,5	20-29	55	12	43-52	*10*
1910.M63	M63x1,5	64,0	27-39	66	12	45-55	*5*

Add to Ref: N for Black, G for Dark Grey

extended thread

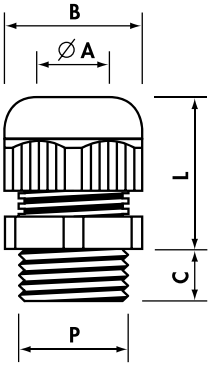
Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1901.M12	M12x1,5	12,2	3,5- 7	15	15	18-22	*100*
1901.M16	M16x1,5	16,2	5 -10	19	15	22-27	*100*
1901.M20	M20x1,5	20,5	7 -13	25	15	24-30	*50*
1901.M25	M25x1,5	25,4	10 -17	30	15	30-41	*50*
1901.M32	M32x1,5	32,5	13 -21	36	15	33-44	*25*
1901.M40	M40x1,5	40,5	19 -28	46	18	36-45	*15*
1901.M50	M50x1,5	50,5	27 -35	55	18	43-52	*10*
1901.M63	M63x1,5	64,0	34 -45	66	18	45-55	*5*

Add to Ref: N for Black, G for Dark Grey

PA 6.6 · IP68 · V2 UL94 · -40°C +100°C · DVE · cULus File no. E220310 · cRUus File no. E220310 · NEMA 6P · NEMA 12 · CE · UKCA · EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring
for sizes from M32 to M63
Protection: IP 68
Colour: RAL 7035 light grey,
RAL 9005 black, RAL 7001 dark grey



Technical data pages 389 to 398

1900

MAXIBLOCK CABLE GLANDS

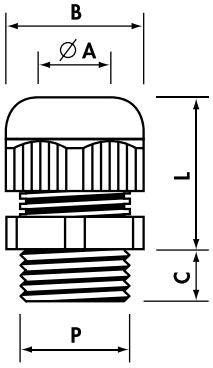
Polyamide PA6.6

MAXIblock®



PA 6.6 | IP68 | V2 UL94 | -40°C +100°C | c UL us File no. E220310 | c RU us File no. E220310 | NEMA 6P | NEMA 12 | CE | UK CA | EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring
for sizes from Pg21 to Pg48
Protection: IP 68
Colour: RAL 7035 light grey,
RAL 9005 black, RAL 7001 dark grey



standard

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1900.07	Pg 7	12,7	3,5- 7	15	8	18-22	100
1900.09	Pg 9	15,5	5 - 8	19	8	22-26	100
1900.11	Pg11	18,8	5 -10	22	8	23-28	100
1900.13	Pg13,5	20,5	7 -12	24	9	24-29	100
1900.16	Pg16	22,6	10 -14	27	10	26-31	50
1900.21	Pg21	28,5	13 -18	33	12	30-35	50
1900.29	Pg29	37,2	18 -25	42	12	33-39	25
1900.36	Pg36	47,2	20 -32	53	14	42-49	10
1900.42	Pg42	54,2	28 -38	60	14	42-50	5
1900.48	Pg48	60,0	37 -45	66	15	45-55	5

Add to Ref: N for Black, G for Dark Grey

reduced cable entry

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1910.07	Pg 7	12,7	2- 5	15	8	18-22	100
1910.09♦	Pg 9	15,5	2- 6	19	8	22-26	100
1910.11	Pg11	18,8	4- 7	22	8	23-28	100
1910.13	Pg13,5	20,5	5-10	24	9	24-29	100
1910.16♦	Pg16	22,6	6-12	27	10	26-31	50
1910.21	Pg21	28,5	9-15	33	12	30-35	50
1910.29♦	Pg29	37,2	12-20	42	12	33-39	25
1910.36	Pg36	47,2	18-26	53	14	42-49	10
1910.42	Pg42	54,2	25-31	60	14	42-50	5
1910.48♦	Pg48	60,0	27-39	66	15	45-55	5

Add to Ref: N for Black

♦Not UL approved

Technical data pages 389 to 398

Polyamide PA6.6

MAXIblock®



extended thread

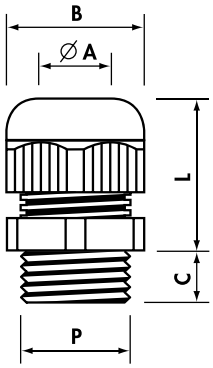
Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1901.07	Pg 7	12,7	3,5- 7	15	15	18-22	*100*
1901.09	Pg 9	15,5	5 - 8	19	15	22-26	*100*
1901.11	Pg11	18,8	5 -10	22	15	23-28	*100*
1901.13	Pg13,5	20,5	7 -12	24	15	24-29	*100*
1901.16	Pg16	22,6	10 -14	27	15	26-31	*50*
1901.21	Pg21	28,5	13 -18	33	15	30-35	*50*
1901.29	Pg29	37,2	18 -25	42	15	33-39	*25*
1901.36	Pg36	47,2	20 -32	53	18	42-49	*10*
1901.42	Pg42	54,2	28 -38	60	18	42-50	*5*
1901.48	Pg48	60,0	37 -45	66	18	45-55	*5*

Add to Ref: N for Black



Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring
for sizes from Pg21 to Pg48
Protection: IP 68
Colour: RAL 7035 light grey,
RAL 9005 black, RAL 7001 dark grey



Technical data pages 389 to 398

1900/X

MAXIBLOCK CABLE GLANDS

Polyamide PA6.6



Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®

External additional sealing ring
for sizes from M32 to M63 and
for sizes from Pg21 to Pg48
Protection: IP 68
Colour: RAL 7035 light grey

MAXIblock®

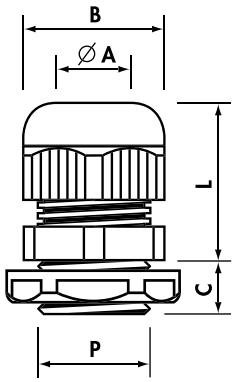
standard, factory fitted with locknuts with collar

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1900.M12/X	M12x1,5	12,2	3,5- 7	15	8	18-22	100/10
1900.M16/X	M16x1,5	16,2	5 -10	19	8	22-27	50/10
1900.M20/X	M20x1,5	20,5	7 -13	25	9	24-30	50/10
1900.M25/X	M25x1,5	25,4	10 -17	30	10	28-39	30/10
1900.M32/X	M32x1,5	32,5	13 -21	36	10	33-44	20/10
1900.M40/X	M40x1,5	40,5	19 -28	46	10	36-45	10/5
1900.M50/X	M50x1,5	50,5	27 -35	55	12	43-52	5/5
1900.M63/X	M63x1,5	64,0	34 -45	66	12	45-55	5/5

Pg thread DIN 40 430

Type	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1900.07/X	Pg 7	12,7	3,5- 7	15	8	18-22	100/10
1900.09/X	Pg 9	15,5	5 - 8	19	8	22-26	100/10
1900.11/X	Pg11	18,8	5 -10	22	8	23-28	50/10
1900.13/X	Pg13,5	20,5	7 -12	24	9	24-29	50/10
1900.16/X	Pg16	22,6	10 -14	27	10	26-31	30/10
1900.21/X	Pg21	28,5	13 -18	33	12	30-35	20/10
1900.29/X	Pg29	37,2	18 -25	42	12	33-39	20/10
1900.36/X	Pg36	47,2	20 -32	53	14	42-49	10/5
1900.42/X	Pg42	54,2	28 -38	60	14	42-50	5/5
1900.48/X	Pg48	60,0	37 -45	66	15	45-55	5/5



1951R.M25N

MAXIBLOCK CABLE GLANDS

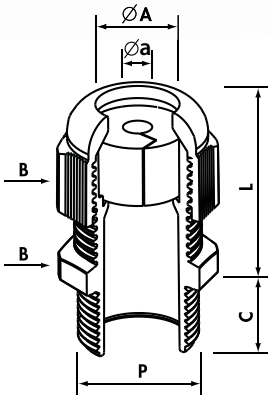
Polyamide PA6.6



Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)

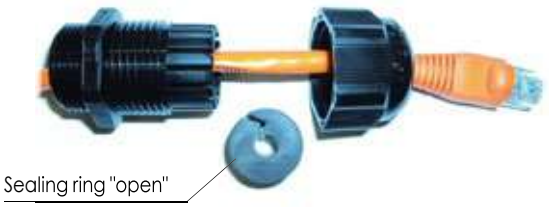
Sealing ring "open": NEOPRENE®
Protection: IP 68
Colour: RAL 9005 black

MAXIblock®



Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	Ø a min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1901R.M25N	M25x1,5	25,4	17,2	6	30	15	30-41	50



Technical data pages 389 to 398

MAXIBLOCK CABLE GLANDS

1900DP

Polyamide PA6.6

MAXIblock®



standard, factory fitted with Polyethylene foam dustproof discs

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

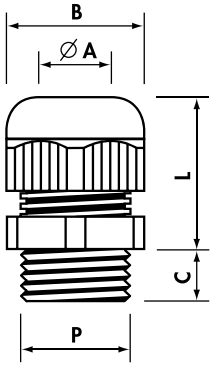
Type	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1900DP.M12	M12x1,5	12,2	3,5- 7	15	8	18-22	100
1900DP.M16	M16x1,5	16,2	5 -10	19	8	22-27	100
1900DP.M20	M20x1,5	20,5	7 -13	25	9	24-30	100
1900DP.M25	M25x1,5	25,4	10 -17	30	10	28-39	50
1900DP.M32	M32x1,5	32,5	13 -21	36	10	33-44	25
1900DP.M40	M40x1,5	40,5	19 -28	46	10	36-45	15
1900DP.M50	M50x1,5	50,5	27 -35	55	12	43-52	10
1900DP.M63	M63x1,5	64,0	34 -45	66	12	45-55	5

Pg thread DIN 40 430

Type	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1900DP.07	Pg 7	12,7	3,5- 7	15	8	18-22	100
1900DP.09	Pg 9	15,5	5 - 8	19	8	22-26	100
1900DP.11	Pg11	18,8	5 -10	22	8	23-28	100
1900DP.13	Pg13,5	20,5	7 -12	24	9	24-29	100
1900DP.16	Pg16	22,6	10 -14	27	10	26-31	50
1900DP.21	Pg21	28,5	13 -18	33	12	30-35	50
1900DP.29	Pg29	37,2	18 -25	42	12	33-39	25
1900DP.36	Pg36	47,2	20 -32	53	14	42-49	10
1900DP.42	Pg42	54,2	28 -38	60	14	42-50	5
1900DP.48	Pg48	60,0	37 -45	66	15	45-55	5

PA 6.6 · IP68 · V2 UL94 · -40°C +100°C · CE · UKCA · EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring for sizes from M32 to M63 and for sizes from Pg21 to Pg48
Protection: IP 68
Colour: RAL 7035 light grey
Dustproof discs: 2 mm thick Polyethylene foam



MAXIBLOCK CABLE GLANDS

1900

Polyamide PA6.6



BSP thread ISO 228/1

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
1900.14	G1/4"	13,5	3- 6,5	15	8	18-22	100
1900.38	G3/8"	17,0	4- 8	19	8	22-26	100
1900.12	G1/2"	21,5	7-12	24	10	24-29	100
1900.34	G3/4"	27,0	13-18	33	12	30-35	50

Add to Ref: N for Black

PA 6.6 · IP68 · V2 UL94 · -40°C +100°C · cULus File no. E220310 · cULus File no. E220310 · NEMA 6P · CE · UKCA · EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
Protection: IP 68
Colour: RAL 7035 light grey, RAL 9005 black

Technical data pages 389 to 398

CEMBRE

1500

SPIRALBLOCK CABLE GLANDS

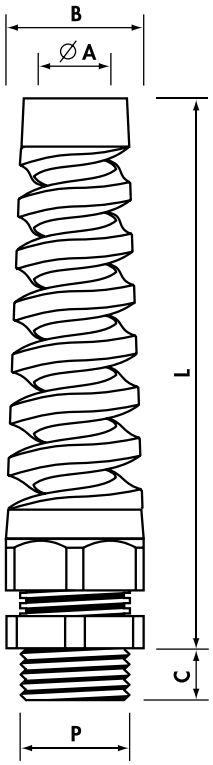
Polyamide PA6.6

spiralblock®



PA 6.6 | IP68 | V2 UL94 | -40°C +100°C | c UL us File no. E220310 | c UL us File no. E220310 | CE | UK CA | EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring
for sizes M32 and Pg21
Protection: IP 68
Colour: RAL 7035 light grey,
RAL 9005 black



Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L max (mm)	Quantity
1500.M12	M12x1,5	12,2	3,5- 7	15	8	57	100
1500.M16	M16x1,5	16,2	5 -10	19	8	79	50
1500.M20	M20x1,5	20,5	7 -13	25	9	90	25
1500.M25	M25x1,5	25,4	10 -17	30	10	120	20
1500.M32	M32x1,5	32,5	13 -21	36	10	140	10

Add to Ref: N for Black

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L max (mm)	Quantity
1500.07	Pg 7	12,7	3,5- 7	15	8	57	100
1500.09	Pg 9	15,5	5 - 8	19	8	68	100
1500.11	Pg11	18,8	5 -10	22	8	80	50
1500.13	Pg13,5	20,5	7 -12	24	10	90	50
1500.16	Pg16	22,6	10 -14	27	10	100	25
1500.21	Pg21	28,5	13 -18	33	12	112	20

Add to Ref: N for Black

BSP thread ISO 228/1

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L max (mm)	Quantity
1500.14	G1/4"	13,5	3- 6,5	15	8	57	100
1500.38	G3/8"	17,0	4- 8	19	9	68	100
1500.12	G1/2"	21,5	7-12	24	10	90	50
1500.34	G3/4"	27,0	13-18	33	12	112	20

Add to Ref: N for Black

Technical data pages 389 to 398

Polyamide PA6.6

MAXIblock®

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
4900.M12	M12x1,5	12,2	3,5- 6,5	15	8	18-22	100
4900.M16	M16x1,5	16,2	6,5-10	19	8	22-27	100
4900.M20	M20x1,5	20,5	9 -13	25	9	24-30	100
4900.M25	M25x1,5	25,4	11 -17	30	10	28-39	50
4900.M32	M32x1,5	32,5	16 -21	36	10	33-44	25
4900.M40	M40x1,5	40,5	21 -28	46	10	36-45	15
4900.M50	M50x1,5	50,5	27 -35	55	12	43-52	10
4900.M63	M63x1,5	64,0	35 -42	66	12	45-55	5

extended thread

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
4901.M12	M12x1,5	12,2	3,5- 6,5	15	15	18-22	100
4901.M16	M16x1,5	16,2	6,5-10	19	15	22-27	100
4901.M20	M20x1,5	20,5	9 -13	25	15	24-30	50
4901.M25	M25x1,5	25,4	11 -17	30	15	30-41	50
4901.M32	M32x1,5	32,5	16 -21	36	15	33-44	25
4901.M40	M40x1,5	40,5	21 -28	46	18	36-45	15
4901.M50	M50x1,5	50,5	27 -35	55	18	43-52	10
4901.M63	M63x1,5	64,0	35 -42	66	18	45-55	5

Pg thread DIN 40 430

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
4900.07	Pg 7	12,7	3,5- 6,5	15	8	18-22	100
4900.09	Pg 9	15,5	6,5- 8	19	8	22-26	100
4900.11	Pg11	18,8	8 -10	22	8	23-28	100
4900.13	Pg13,5	20,5	9 -12	24	9	24-29	100
4900.16	Pg16	22,6	10 -14	27	10	26-31	50
4900.21	Pg21	28,5	14 -18	33	12	30-35	50
4900.29	Pg29	37,2	18 -22	42	12	33-39	25
4900.36	Pg36	47,2	22 -32	53	14	42-49	10
4900.42	Pg42	54,2	28 -38	60	14	42-50	5
4900.48	Pg48	60,0	38 -45	66	15	45-55	5

extended thread

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity
4901.07	Pg 7	12,7	3,5- 6,5	15	15	18-22	100
4901.09	Pg 9	15,5	6,5- 8	19	15	22-26	100
4901.11	Pg11	18,8	8 -10	22	15	23-28	100
4901.13	Pg13,5	20,5	9 -12	24	15	24-29	100
4901.16	Pg16	22,6	10 -14	27	15	26-31	50
4901.21	Pg21	28,5	14 -18	33	15	30-35	50
4901.29	Pg29	37,2	18 -22	42	15	33-39	25
4901.36	Pg36	47,2	22 -32	53	18	42-49	10
4901.42	Pg42	54,2	28 -38	60	18	42-50	5
4901.48	Pg48	60,0	38 -45	66	18	45-55	5

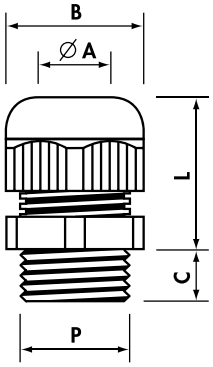


UKCA 0891 CE 0051 Ex II 2 GD

Certificate No IMQ 10 ATEX 028 X
Certificate No EMA 21 UKEX 0084 X

PA 6.6 · IP65 · V2 UL94 · -20°C +75°C · Ex · CE · UKCA · EN 45545-2

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Safety level:
Ex eb IIC Gb/Ex tb IIIC Db
according to:
EN 60079-0
EN 60079-7
EN 60079-7/A1
EN 60079-31
Areas of utilisation: 1 & 2, 21 & 22
The certification is maintained with and without the aid of the 1143-1142 series locknuts
Temperature range:
–20°C to +75°C (dynamic)
Sealing ring: NEOPRENE®
External additional sealing ring for sizes from M32 to M63 and for sizes from Pg21 to Pg48
Protection: IP 65
Colour: RAL 7035 light grey



Technical data pages 389 to 398

1700
1400

COMPRESSION CABLE GLANDS

Polyamide PA6

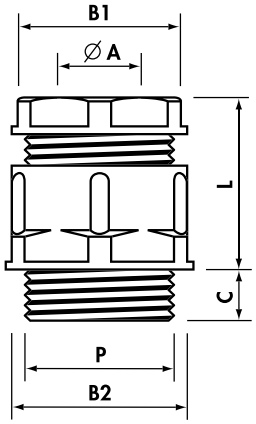


PA 6 V0 UL94

PA 6.6 V2 UL94 **

IP54 -20°C +90°C

Material: POLYAMIDE PA6 / PA6.6**
self-extinguishing class V0 / V2** (UL 94)
Temperature range:
–20°C to +90°C (dynamic)
Sealing ring: PVC 50 sh A
Protection: IP 54
Colour: RAL 7035 light grey,
RAL 9005 black



Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1709	Pg 7	12,7	5,5- 7	15	16	8	16-20	300/100
*1700	Pg 9	15,5	6,5- 8,5	17	20	8	19-22	200/100
*1701	Pg11	18,8	8 -10	19	22	8	21-25	100/100
*1702**	Pg13,5	20,5	8 -11	21	24	9	22-26	100/100
1703	Pg16	22,6	11 -14	23	27	10	24-33	50/50
1704	Pg21	28,5	14,5-18	30	33	11	25-32	50/25
1705	Pg29	37,2	19 -26	40	42	11	27-32	20/10
1706	Pg36	47,2	30 -34	50	53	14	33-42	10/10
1707	Pg42	54,2	30 -38	55	60	13	37-48	5/5
1708	Pg48	60,0	38 -44	60	65	14,5	37-48	5/5

***Add to Ref: N for Black**

BSP thread ISO 228/1

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1400	G1/4"	13,5	5,5- 7	15	16	8	16-20	300/100
*1401	G3/8"	17,0	6,5- 8,5	17	20	8	19-22	200/100
*1401B	G3/8"	17,0	8 -10	19	22	8	18-24	100/100
*1402**	G1/2"	21,5	8 -11	21	24	9	22-26	100/100
1403	G5/8"	23,5	11 -14	23	27	10	24-33	50/50
1404	G3/4"	27,0	14,5-18	30	33	11	25-32	50/25
1405	G1"	34,0	17 -22	34	38	11,5	27-35	20/10
1407	G1"1/2	48,0	30 -34	50	53	14	33-42	10/10
1408	G2"	60,0	38 -44	60	65	14,5	37-48	5/5

***Add to Ref: N for Black**

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity
1730M20**	M20x1,5	20,5	8-11	21	24	9	22-26	100

Add to Ref: N for Black

COMPRESSION CABLE GLANDS

Polyamide PA6

1700T



PA 6 | V0 UL94

PA 6.6 | V2 UL94 **

IP54 | -20°C +90°C

Material: POLYAMIDE PA6 / PA6.6**
self-extinguishing class V0 / V2** (UL 94)
Temperature range:
–20°C to +90°C (dynamic)
Protection: IP 54
Colour: RAL 7035 light grey,
RAL 9005 black

special Internal blanking disc: PVC 50 sh

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1700T	Pg 9	15,5	6,5- 8,5	17	20	8	19-22	200/100
*1701T	Pg11	18,8	8 -10	19	22	8	21-25	100/100
1702T**	Pg13,5	20,5	8 -11	21	24	9	22-26	100/100

***Add to Ref: N for Black**

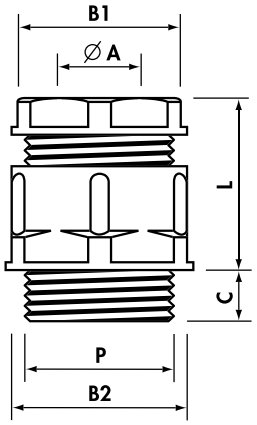
reduced cable entry

Sealing ring: CHLOROPRENE, concentric, multi-sector

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity
1702CONC**	Pg13,5	20,5	5,5-13	21	24	9	22-26	100

Add to Ref: N for Black



CEMBRE

2900

MAXIBRASS CABLE GLANDS

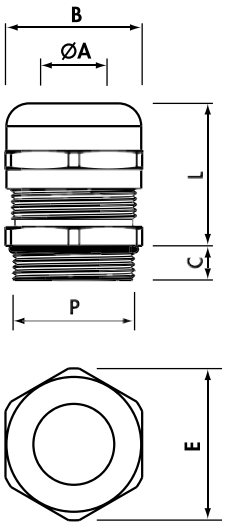
Nickel Plated Brass

MAXIbrass®



BRASS | 3µm NICKEL PLATED | IP68 | -40°C +100°C | DVE | cULus File no. E220310 | cULus File no. E220310 | NEMA 6P | CE | UKCA | EN 45545-2

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)



standard

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

	Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
	2900.M12N	M12x1,5	12,2	3 - 7	16	18	6,5	16-20	100
	2900.M16N	M16x1,5	16,2	4,5-10	20	23	7,0	20-25	100
	2900.M20N	M20x1,5	20,5	7 -13	24	27	8,0	20-27	50
	2900.M25N	M25x1,5	25,4	10 -17	29	32	8,0	24-30	50
	2900.M32N	M32x1,5	32,5	11 -21	36	39	9,0	27-34	25
	2900.M40N	M40x1,5	40,5	19 -28	45	50	9,0	34-42	10
	2900.M50N	M50x1,5	50,5	26 -35	54	60	10,0	35-43	8
	2900.M63N	M63x1,5	64,0	34 -45	67	73	15,0	40-52	5
NEW	**2900.M75N**	M75x1,5	76,0	56 -63	80	88	18,0	35-43	3/1

extended cable entry

NEW

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2940.M12N	M12x1,5	12,2	5 - **8**	17	19	6,5	17-23	100
2940.M16N	M16x1,5	16,2	7 -**12**	22	25	7,0	20-26	50
2940.M20N	M20x1,5	20,5	10 -**16**	29	32	10,0	24-30	50
2940.M25N	M25x1,5	25,4	13 -**21**	36	39	11,0	27-34	25
2940.M32N	M32x1,5	32,5	18 -**25**	40	43	12,0	30-37	25
2940.M40N	M40x1,5	40,5	25 -**32**	50	54	13,0	38-48	10
2940.M50N	M50x1,5	50,5	30 -**38**	57	61	13,0	39-48	5
2940E.M50N	M50x1,5	50,5	35 -**45**	67	73	13,0	40-52	5
2940.M63N	M63x1,5	64,0	44 -**55**	75	83	15,0	40-53	4

Comparative table of clamping range of brass cable glands available on page. 395

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MAXIBRASS CABLE GLANDS

2900

Nickel Plated Brass

MAXIbrass®



reduced cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

	Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
	2910.M12N	M12x1,5	12,2	1 - 5	16	18	6,5	16-20	100
	2910.M16N	M16x1,5	16,2	2,5- 7	20	23	7,0	20-25	100
	2910.M20N	M20x1,5	20,5	5 -10	24	27	8,0	20-27	50
	2910.M25N	M25x1,5	25,4	6 -13	29	32	8,0	24-30	50
	2910.M32N	M32x1,5	32,5	7 -14	36	39	9,0	27-34	25
	2910.M40N	M40x1,5	40,5	13 -23	45	50	9,0	34-42	10
	2910.M50N	M50x1,5	50,5	20 -29	54	60	10,0	35-43	8
	2910.M63N	M63x1,5	64,0	27 -39	67	73	15,0	40-52	5
NEW	2910.M75N	M75x1,5	76,0	49 -57	80	88	18,0	35-43	3/1
NEW	2910E.M75N	M75x1,5	76,0	45 -51	80	88	18,0	35-43	3/1

extended thread

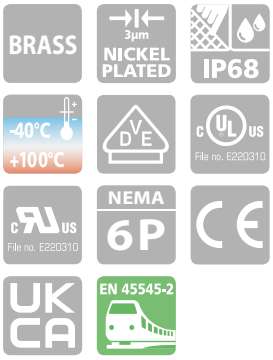
Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2901.M12N	M12x1,5	12,2	3 - 7	16	18	12	16-20	100
2901.M16N	M16x1,5	16,2	4,5-10	20	23	12	20-25	100
2901.M20N	M20x1,5	20,5	7 -13	24	27	12	20-27	50
2901.M25N	M25x1,5	25,4	10 -17	29	32	12	24-30	50
2901.M32N	M32x1,5	32,5	11 -21	36	39	15	27-34	25
2901.M40N	M40x1,5	40,5	19 -28	45	50	15	34-42	10
2901.M50N	M50x1,5	50,5	26 -35	54	60	15	35-43	8

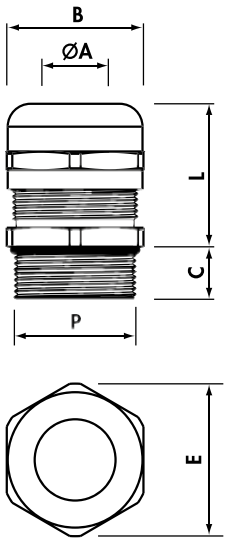
extended thread and reduced cable entry

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2911.M12N	M12x1,5	12,2	1 - 5	16	18	12	16-20	100
2911.M16N	M16x1,5	16,2	2,5- 7	20	23	12	20-25	100
2911.M20N	M20x1,5	20,5	5 -10	24	27	12	20-27	50
2911.M25N	M25x1,5	25,4	6 -13	29	32	12	24-30	50
2911.M32N	M32x1,5	32,5	7 -14	36	39	15	27-34	25
2911.M40N	M40x1,5	40,5	13 -23	45	50	15	34-42	10
2911.M50N	M50x1,5	50,5	20 -29	54	60	15	35-43	8



Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)



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CEMBRE

2900

MAXIBRASS CABLE GLANDS

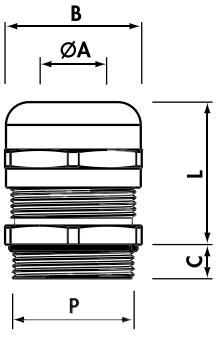
Nickel Plated Brass

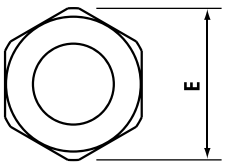
MAXIbrass®



BRASS | 3µm NICKEL PLATED | IP68 | -40°C +100°C | File no. E220310 | File no. E220310 | NEMA 6P | CE | UKCA | EN 45545-2

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)





standard

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2900.07N	Pg 7	12,7	3 - 7	16	18	5,0	16-20	100
2900.09N	Pg 9	15,5	4 - 8	17	19	6,0	17-23	100
2900.11N	Pg11	18,8	4,5-10	20	23	6,0	20-25	100
2900.13N	Pg13,5	20,5	5 -12	22	25	6,5	20-26	50
2900.16N	Pg16	22,6	7 -13	24	27	6,5	20-27	50
2900.21N	Pg21	28,5	10 -17	30	33	7,0	24-30	50
2900.29N	Pg29	37,2	17 -25	40	43	8,0	30-37	25
2900.36N	Pg36	47,2	20 -32	50	54	8,0	38-48	10
2900.42N	Pg42	54,2	28 -38	57	63	10,0	39-48	5
2900.48N	Pg48	60,0	34 -45	67	73	15,0	40-52	5

reduced cable entry

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2910.07N	Pg 7	12,7	1 - 5	16	18	5,0	16-20	100
2910.09N	Pg 9	15,5	2 - 6	17	19	6,0	17-23	100
2910.11N	Pg11	18,8	2,5- 7	20	23	6,0	20-25	100
2910.13N	Pg13,5	20,5	4 -10	22	25	6,5	20-26	50
2910.16N	Pg16	22,6	5 -10	24	27	6,5	20-27	50
2910.21N	Pg21	28,5	6 -13	30	33	7,0	24-30	50
2910.29N	Pg29	37,2	11 -20	40	43	8,0	30-37	25
2910.36N	Pg36	47,2	18 -26	50	54	8,0	38-48	10
2910.42N	Pg42	54,2	24 -31	57	63	10,0	39-48	5
2910.48N	Pg48	60,0	27 -39	67	73	15,0	40-52	5

extended thread

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2901.07N	Pg 7	12,7	3 - 7	16	18	12	16-20	100
2901.09N	Pg 9	15,5	4 - 8	17	19	12	17-23	100
2901.11N	Pg11	18,8	4,5-10	20	23	12	20-25	100
2901.13N	Pg13,5	20,5	5 -12	22	25	12	20-26	50
2901.16N	Pg16	22,6	7 -13	24	27	12	20-27	50
2901.21N	Pg21	28,5	10 -17	30	33	12	24-30	50
2901.29N	Pg29	37,2	17 -25	40	43	15	30-37	25
2901.36N	Pg36	47,2	20 -32	50	54	15	38-48	10
2901.42N	Pg42	54,2	28 -38	57	63	15	39-48	5

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MAXIBRASS CABLE GLANDS

2900

Nickel Plated Brass

MAXIbrass®



extended thread and reduced cable entry

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2911.07N	Pg 7	12,7	1 - 5	16	18	12	16-20	100
2911.09N	Pg 9	15,5	2 - 6	17	19	12	17-23	100
2911.11N	Pg11	18,8	2,5- 7	20	23	12	20-25	100
2911.13N	Pg13,5	20,5	4 -10	22	25	12	20-26	50
2911.16N	Pg16	22,6	5 -10	24	27	12	20-27	100
2911.21N	Pg21	28,5	6 -13	30	33	12	24-30	50
2911.29N	Pg29	37,2	11 -20	40	43	15	30-37	25
2911.36N	Pg36	47,2	18 -26	50	54	15	38-48	10
2911.42N	Pg42	54,2	24 -31	57	63	15	39-48	5



MAXIBRASS CABLE GLANDS

2900DP

Nickel Plated Brass



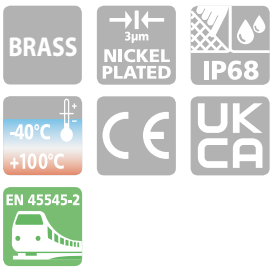
standard, factory fitted with Polyethylene foam dustproof discs

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2900DP.M12N	M12x1,5	12,2	3 - 7	16	18	6,5	16-20	100
2900DP.M16N	M16x1,5	16,2	4,5-10	20	23	7,0	20-25	100
2900DP.M20N	M20x1,5	20,5	7 -13	24	27	8,0	20-27	50
2900DP.M25N	M25x1,5	25,4	10 -17	29	32	8,0	24-30	50
2900DP.M32N	M32x1,5	32,5	11 -21	36	39	9,0	27-34	25
2900DP.M40N	M40x1,5	40,5	19 -28	45	50	9,0	34-42	10
2900DP.M50N	M50x1,5	50,5	26 -35	54	60	10,0	35-43	8
2900DP.M63N	M63x1,5	64,0	34 -45	67	73	15,0	40-52	5

Pg thread DIN 40 430

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
2900DP.07N	Pg 7	12,7	3 - 7	16	18	5,0	16-20	100
2900DP.09N	Pg 9	15,5	4 - 8	17	19	6,0	17-23	100
2900DP.11N	Pg11	18,8	4,5-10	20	23	6,0	20-25	100
2900DP.13N	Pg13,5	20,5	5 -12	22	25	6,5	20-26	50
2900DP.16N	Pg16	22,6	7 -13	24	27	6,5	20-27	50
2900DP.21N	Pg21	28,5	10 -17	30	33	7,0	24-30	50
2900DP.29N	Pg29	37,2	17 -25	40	43	8,0	30-37	25
2900DP.36N	Pg36	47,2	20 -32	50	54	8,0	38-48	10
2900DP.42N	Pg42	54,2	28 -38	57	63	10,0	39-48	5
2900DP.48N	Pg48	60,0	34 -45	67	73	15,0	40-52	5



Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Protection: IP 68
Dustproof discs: 2 mm thick Polyethylene foam
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)

Technical data pages 389 to 398

CEMBRE

5900

MAXIBRASS ATEX and UKEX CABLE GLANDS

Nickel Plated Brass



UK CA 0891 CE 0051 Ex II 2 GD

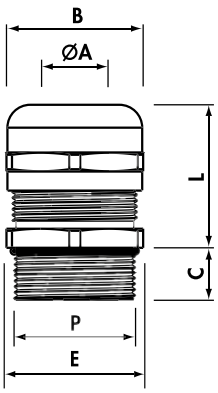
Certificate No IMQ 10 ATEX 028 X
Certificate No EMA 21 UKEX 0084 X

Safety level: Ex eb IIC Gb/Ex tb IIIC Db
according to: EN 60079-0
EN 60079-7
EN 60079-7/A1; EN 60079-31
Areas of utilisation: 1 & 2, 21 & 22

MAXIbrass®

BRASS | 3µm NICKEL PLATED | IP65 | -25°C +75°C | Ex | CE | UKCA | EN 45545-2

Material: NICKEL PLATED BRASS
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A (factory fitted)
Temperature range: -25°C to +75°C (dynamic)
Protection: IP 65
The certification is maintained with and without the aid of the 2033 series locknuts



Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
5900.M12N	M12x1,5	12,2	3 - 6,5	16	18	6,5	16-20	100
5900.M16N	M16x1,5	16,2	6,5 -10	20	23	7,0	20-25	100
5900.M20N	M20x1,5	20,5	10 - 13	24	27	8,0	20-27	50
5900.M25N	M25x1,5	25,4	11 - 17	29	32	8,0	24-30	50
5900.M32N	M32x1,5	32,5	14 - 21	36	39	9,0	27-34	25
5900.M40N	M40x1,5	40,5	21 - 27	45	50	9,0	34-42	10
5900.M50N	M50x1,5	50,5	26 - 35	54	60	10,0	35-43	8
5900.M63N	M63x1,5	64,0	35 - 42	67	73	15,0	40-52	5

extended thread

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity
5901.M12N	M12x1,5	12,2	3 - 6,5	16	18	12	16-20	100
5901.M16N	M16x1,5	16,2	6,5 - 10	20	23	12	20-25	100
5901.M20N	M20x1,5	20,5	10 - 13	24	27	12	20-27	50
5901.M25N	M25x1,5	25,4	11 - 17	29	32	12	24-30	50
5901.M32N	M32x1,5	32,5	14 - 21	36	39	12	27-34	25
5901.M40N	M40x1,5	40,5	21 - 27	45	50	12	34-42	10
5901.M50N	M50x1,5	50,5	26 - 35	54	60	12	35-43	8

20M3

EMC CABLE GLANDS

Nickel Plated Brass



BRASS | 3µm NICKEL PLATED | IP68 | -40°C +100°C | CE | UKCA

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Sealing-ring: Chloroprene (CR)
Cable grip insert: PA6.6
O-Ring: (NBR) (factory fitted)
Protection: IP 68
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	C (mm)	L max (mm)	Quantity Box/Bag
20M3M1261N	M12x1,5	12,2	3 - 6,5	14	5,0	22,0	300/100
20M3M1661N	M16x1,5	16,2	5,5 - 10	17	5,5	24,5	200/100
20M3M2061N	M20x1,5	20,5	8 - 13	22	6,0	27,0	100/50
20M3M2561N	M25x1,5	25,4	11 - 18	30	7,0	31,0	50/25
20M3M3261N	M32x1,5	32,5	15 - 21	34	8,0	33,0	30/10
20M3M4061N	M40x1,5	40,5	19 - 27	44	8,0	40,0	20/10
20M3M5061N	M50x1,5	50,5	26 - 35	55	9,0	48,0	10/5
20M3M6361N	M63x1,5	64,0	39 - 48	66	10,0	50,0	5/5

EMC Cable glands and locknuts are designed to work together in electrical or electronic applications where a metallic cable shielding must be equipotential with a metallic enclosure, in accordance with the EMC directive.
Offering IP68 ingress protection at 5 bar pressure, EMC Cable glands will maintain shielding from electromagnetic disturbance in undergound applications.
EMC locknuts have serrated teeth to maintain electrical contact through paint or surface coatings, a feature which also enhances vibration resistance.



COMPRESSION CABLE GLANDS

Nickel Plated Brass

2003
2002
2001



BRASS | 3µm NICKEL PLATED | IP54 | -25°C +100°C

Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
Protection: IP 54

Sealing ring: RUBBER 55sh A

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

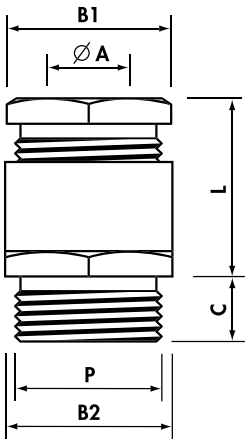
Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
2003M1221N	M12x1,5	12,2	4 - 6	13	14	5	13-16	500/100
2003M1621N	M16x1,5	16,2	8 -10	15	18	5	14-17	200/100
2003M2021N	M20x1,5	20,5	10 -12	20	22	6	16-19	150/50
2003M2521N	M25x1,5	25,4	17 -19	28	30	7	19-23	50/50
2003M3221N	M32x1,5	32,5	26 -28	37	39	8	21-25	100/50
2003M4021N	M40x1,5	40,5	33 -35	47	50	8	24-30	20/20
2003M5021N	M50x1,5	50,5	39 -41	54	57	9	28-34	10/5
2003M6321N	M63x1,5	64,0	43 -45	60	66/68	10	30-36	10/5

Sealing ring: RUBBER 55sh A

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
200200721N	Pg 7	12,7	5 - 7	13	14	5	13-16	400/100
200200921N	Pg 9	15,5	8 -10	15	17	6	14-17	300/100
200201121N	Pg11	18,8	8 -10	18	20	6	14-18	200/50
200201321N	Pg13,5	20,5	10 -12	20	22	6,5	16-19	100/50
200201621N	Pg16	22,6	12 -14	22	24	6,5	17-20	50/50
200202121N	Pg21	28,5	17 -19	28	30	7	19-23	50/50
200202921N	Pg29	37,2	26 -28	37	40	8	21-25	15/15
200203621N*	Pg36	47,2	33 -35	47	50	9	24-30	10/10
200204221N	Pg42	54,2	39 -41	54	57	10	28-34	10/10
200204821N*	Pg48	60,0	43 -45	60	64	10	36-45	10/10

*** Double sealing ring**



Sealing ring: PVC 50 sh A

BSP thread ISO 228/1

Type Nickel Plated Brass	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B1 Spanner Head (mm)	B2 Spanner Body (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
200101441N	G1/4"	13,5	5,5 - 7	13	15	6,5	14-17	400/100
207101441N	G1/4"	13,5	5,5 - 7	13	15**	6,5	14-17	400/100
200103841N	G3/8"	17,0	6,5 - 8,5	17	19	7,5	15-19	200/100
200101241N	G1/2"	21,5	8 -11	21	23	8	17-23	100/100
200105841N	G5/8"	23,5	11 -14	23	25	8,5	20-24	100/50
200103441N	G3/4"	27,0	14,5-17,5	27	29	9	20-26	50/50
200110041N	G1"	34,0	18 -22	34	36	10	23-28	25/25
200111841N	G1"1/8	38,0	21 -26	38	40	10,5	23-28	25/25
200111441N	G1"1/4	42,0	28 -32	42	45	11,5	25-31	20/20
200111241N	G1"1/2	48,0	32 -36	48	50	11,5	28-35	10/10
200120041N	G2"	60,0	38 -42	60	64	13,5	31-37	10/10
• 200121221N*	G2"1/2	76,0	44 -57	80	80	20	32-37	5/5
• 200130021N	G3"	89,0	67 -69	95	95	20	42-52	5/5

• Sealing ring: Chloroprene
*** Concentric sealing ring**
**** Cylindrical body without hexagonal key**

CEMBRE

7900
7900A

MAXIINOX CABLE GLANDS

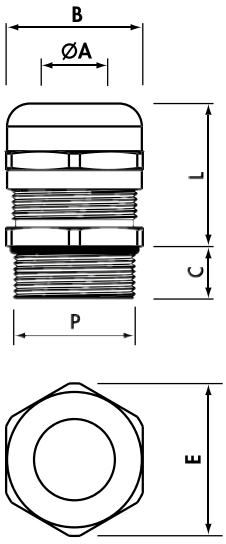
Stainless Steel AISI 303 (X8 CrNiS 18-9) - Stainless Steel AISI 316L (X2 CrNiMo 17-12-2)

MAXIinox



STAINLESS STEEL | IP68 | -40°C +100°C | CE | UKCA | EN 45545-2

Material:
STAINLESS STEEL AISI 303/316L
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A
(factory fitted)
Protection: IP 68
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)



Stainless Steel AISI 303

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Stainless Steel AISI 303	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900.M12	M12x1,5	12,2	3 - 7	16	18	6,5	16-20	90/30
7900.M16	M16x1,5	16,2	4,5-10	20	23	7,0	20-25	120/30
7900.M20	M20x1,5	20,5	7 -13	24	27	8,0	20-27	75/25
7900.M25	M25x1,5	25,4	10 -17	29	32	8,0	24-30	40/20
7900.M32	M32x1,5	32,5	11 -21	36	40	9,0	27-34	15
7900.M40	M40x1,5	40,5	19 -28	45	50	9,0	34-42	15
7900.M50	M50x1,5	50,5	26 -35	54	60	10,0	35-43	10
7900.M63	M63x1,5	64,0	34 -45	67	74	15,0	40-52	5

Stainless Steel AISI 316L

Metric thread M 1.5 pitch CEI EN 60423 CEI EN 62444

Stainless Steel AISI 316L	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900A.M12	M12x1,5	12,2	3 - 7	16	18	6,5	16-20	60/20
7900A.M16	M16x1,5	16,2	4,5-10	20	23	7,0	20-25	80/20
7900A.M20	M20x1,5	20,5	7 -13	24	27	8,0	20-27	60/20
7900A.M25	M25x1,5	25,4	10 -17	29	32	8,0	24-30	30/15
7900A.M32	M32x1,5	32,5	11 -21	36	40	9,0	27-34	12
7900A.M40	M40x1,5	40,5	19 -28	45	50	9,0	34-42	10
7900A.M50	M50x1,5	50,5	26 -35	54	60	10,0	35-43	7
7900A.M63	M63x1,5	64,0	34 -45	67	74	15,0	40-52	5

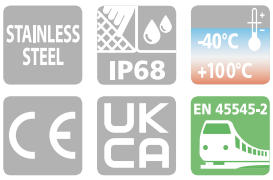
MAXIINOX CABLE GLANDS

Stainless Steel AISI 303 (X8 CrNiS 18-9) - Stainless Steel AISI 316L (X2 CrNiMo 17-12-2)

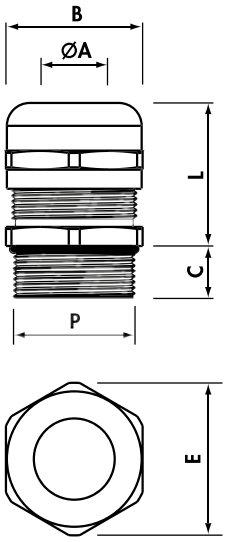
7900
7900A

MAXIinox





Material:
STAINLESS STEEL AISI 303/316L
Sealing-ring: NEOPRENE®
Cable grip insert: POLYAMIDE PA6.6
O-Ring: NITRILE 70 sh A
(factory fitted)
Protection: IP 68
Temperature range:
–40°C to +100°C (static)
–25°C to +100°C (dynamic)



Stainless Steel AISI 303

Pg thread DIN 40 430

Stainless Steel AISI 303	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900.07	Pg 7	12,7	3 - 7	16	18	5,0	16-20	*90/30*
7900.09	Pg 9	15,5	4 - 8	17	19	6,0	17-23	*90/30*
7900.11	Pg11	18,8	4,5-10	20	23	6,0	20-25	*60/30*
7900.13	Pg13,5	20,5	5 -12	22	25	6,5	20-26	*90/30*
7900.16	Pg16	22,6	7 -13	24	27	6,5	20-27	*60/30*
7900.21	Pg21	28,5	10 -17	30	33	7,0	24-30	*40/20*
7900.29	Pg29	37,2	17 -25	40	45	8,0	30-37	*30/15*
7900.36	Pg36	47,2	20 -32	50	55	8,0	38-48	*10*
7900.42	Pg42	54,2	28 -38	57	63	10,0	36-46	*5*
7900.48	Pg48	60,0	34 -45	67	74	15,0	40-52	*5*

Stainless Steel AISI 316L

Pg thread DIN 40 430

Stainless Steel AISI 316L	P	Fixing Hole Ø (mm)	Ø A min-max (mm)	B Spanner (mm)	E (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
7900A.07	Pg 7	12,7	3 - 7	16	18	5,0	16-20	*60/20*
7900A.09	Pg 9	15,5	4 - 8	17	19	6,0	17-23	*60/20*
7900A.11	Pg11	18,8	4,5-10	20	23	6,0	20-25	*100/20*
7900A.13	Pg13,5	20,5	5 -12	22	25	6,5	20-26	*100/20*
7900A.16	Pg16	22,6	7 -13	24	27	6,5	20-27	*40/20*
7900A.21	Pg21	28,5	10 -17	30	33	7,0	24-30	*60/15*
7900A.29	Pg29	37,2	17 -25	40	45	8,0	30-37	*20/10*
7900A.36	Pg36	47,2	20 -32	50	55	8,0	38-48	*7*
7900A.42	Pg42	54,2	28 -38	57	63	10,0	36-46	*5*
7900A.48	Pg48	60,0	34 -45	67	74	15,0	40-52	*5*

CEMBRE

1143
1142
1141

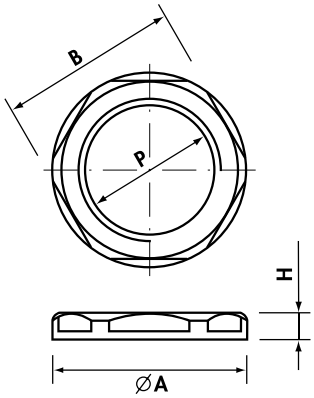
LOCKNUTS WITH COLLAR

Polyamide PA6.6



PA 6.6 | V2 UL94 | -40°C +100°C

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Colour: RAL 7035 light grey,
RAL 9005 black,
RAL 7001 dark grey



Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	H (mm)	Quantity Box/Bag
1143M12	M12x1,5	18,5	17	5	1.000/100
1143M16	M16x1,5	24,0	22	5	600/100
1143M20	M20x1,5	29,0	27	6	400/100
1143M25	M25x1,5	35,5	32	6	200/100
1143M32	M32x1,5	45,0	41	7	100/50
1143M40	M40x1,5	55,0	50	7	30
1143M50	M50x1,5	65,0	60	8	30
1143M63	M63x1,5	82,0	75	8	15

Add to Ref: N for Black, G for Dark Grey

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	H (mm)	Quantity Box/Bag
1142007	Pg 7	21	19	5	100
1142009	Pg 9	24	22	5	700/100
1142011	Pg11	26	24	5	500/100
1142013	Pg13,5	29	27	6	400/100
1142016	Pg16	33	30	6	300/100
1142021	Pg21	39	36	7	200/50
1142029	Pg29	50	46	7	50
1142036	Pg36	66	60	8	30
1142042	Pg42	73	65	8	25
1142048	Pg48	78	70	8	20

Add to Ref: N for Black, G for Dark Grey

BSP thread ISO 228/1

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	H (mm)	Quantity Box/Bag
1141012	G1/2"	29	27	6	400/100
1141112	G1"1/2	66	60	8	30
1141200	G2"	78	70	8	20

Add to Ref: N for Black

LOCKNUTS WITHOUT COLLAR

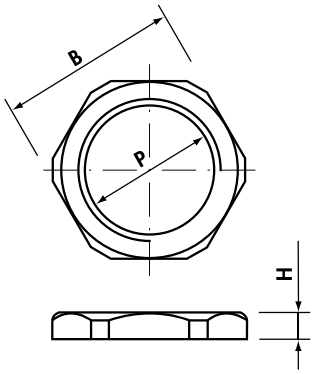
Polyamide PA6.6

1112
1710
1410



PA 6.6 | V2 UL94 | -40°C +100°C

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Colour: RAL 7035 light grey,
RAL 9005 black



Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
1112	M12x1,5	17	5	1.000/100
1116	M16x1,5	22	5	700/100
1120	M20x1,5	27	6	400/100
1125	M25x1,5	32	6	300/100
1132	M32x1,5	41	7	100/50
1140	M40x1,5	50	7	30
1150	M50x1,5	60	8	30
1163	M63x1,5	75	8	15

Add to Ref: N for Black

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
1719E17*	Pg 7	17	5	1.000/100
1719	Pg 7	19	5	100
1710	Pg 9	22	5	700/100
1711	Pg11	24	5	500/100
1712	Pg13,5	27	6	400/100
1713	Pg16	30	6	300/100
Δ1714E34*	Pg21	34	7	200/100
1714	Pg21	36	7	200/100
1715	Pg29	46	7,5	75/25

Add to Ref: N for Black
Δ Light Grey only
*** Not DIN 46 320**

BSP thread ISO 228/1

Type Light Grey	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
1410	G1/4"	19	5	800/100
1411	G3/8"	23	6	600/100
1412	G1/2"	27	6	400/100
1414	G3/4"	34	7	200/100
1415	G1"	40	7	100/50

Add to Ref: N for Black

CEMBRE

2033
2032
2031

LOCKNUTS

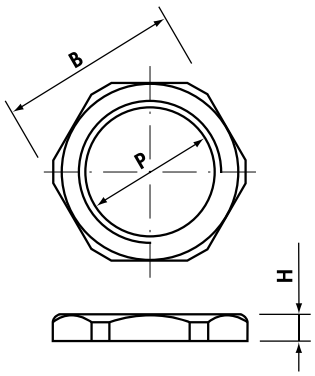
Nickel Plated Brass



BRASS | 3µm NICKEL PLATED | -40°C +100°C

Metric thread M 1.5 pitch CEI EN 60423

	Type Nickel Plated Brass	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
	2033M12N	M12x1,5	16	2,8	2.000/100
	2033M16N	M16x1,5	19	2,8	1.000/100
	2033M20N	M20x1,5	24	3,0	600/100
	2033M25N	M25x1,5	30	4,0	300/50
	2033M32N	M32x1,5	36	4,0	250/25
	2033M40N	M40x1,5	45	5,0	100/10
	2033M50N	M50x1,5	60	5,0	80/10
	2033M63N	M63x1,5	70	5,5	50/5
NEW	2033M75N	M75x1,5	80	7,0	25/1



Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Nickel Plated Brass	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
2032007N	Pg 7	16*	2,8	1.500/100
2032009N	Pg 9	18	2,8	1.500/100
2032011N	Pg11	21	3,0	1.000/100
2032013N	Pg13,5	23	3,0	1.000/100
2032016N	Pg16	26	3,0	600/100
2032021N	Pg21	32	3,5	500/100
2032029N	Pg29	41	4,0	200/50
2032036N	Pg36	51	5,0	100/10
2032042N	Pg42	60	5,0	50/10
2032048N	Pg48	64	5,5	50/10

***Different dimension to DIN 46320**

BSP thread ISO 228/1

Type Nickel Plated Brass	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
2031014N	G1/4"	16	3,0	2.400/100
2031038N	G3/8"	19	3,0	1.000/100
2031012N	G1/2"	24	3,5	1.000/100
2031058N	G5/8"	26	4,0	500/50
2031034N	G3/4"	30	4,0	500/50
2031100N	G1"	37	4,0	250/25
2031118N	G1"1/8	41	4,5	100/25
2031114N	G1"1/4	45	4,5	200/20
2031112N	G1"1/2	52	5,5	100/20
2031200N	G2"	64	7,0	50/10
2031212N	G2"1/2	80	7,0	20/5
2031300N	G3"	95	8,0	20/5

EMC LOCKNUTS

20N3

Nickel Plated Brass

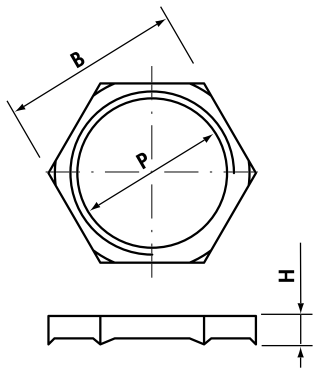


With serrated teeth to maintain electrical contact

Metric thread M 1.5 pitch CEI EN 60423

Type Nickel Plated Brass	P	B Spanner (mm)	H (mm)	Quantity Box/Bag
20N3M12N	M12x1,5	15	3,5	*1000/100*
20N3M16N	M16x1,5	19	3,5	*1000/100*
20N3M20N	M20x1,5	24	3,5	*500/100*
20N3M25N	M25x1,5	30	4,0	*400/100*
20N3M32N	M32x1,5	36	4,0	*200/100*
20N3M40N	M40x1,5	46	4,7	*100/50*
20N3M50N	M50x1,5	60	5,7	*50/50*
20N3M63N	M63x1,5	70	6,7	*50/25*

BRASS | 3µm NICKEL PLATED | -40°C +100°C



MAXIINOX LOCKNUTS

7032
7033

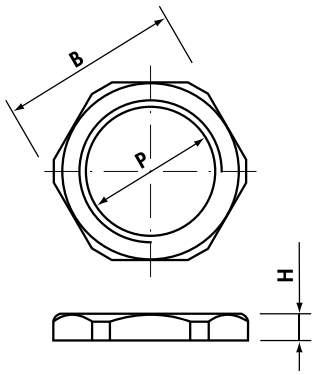
Stainless Steel AISI 303 (X8 CrNiS 18-9) - Stainless Steel AISI 316L (X2 CrNiMo 17-12-2)



Metric thread M 1.5 pitch CEI EN 60423

Stainless Steel AISI 303	Stainless Steel AISI 316L	P	B Spanner (mm)	H (mm)	AISI 303 Quantity Box/Bag	AISI 316L Quantity Box/Bag
7033M12	**7033AM12**	M12x1,5	16	2,8	*450/30*	*300/20*
7033M16	**7033AM16**	M16x1,5	20	2,8	*450/30*	*300/20*
7033M20	**7033AM20**	M20x1,5	24	3,5	*250/25*	*200/20*
7033M25	**7033AM25**	M25x1,5	29	4,0	*160/20*	*120/15*
7033M32	**7033AM32**	M32x1,5	36	4,0	*105/15*	*84/12*
7033M40	**7033AM40**	M40x1,5	45	5,0	*60/15*	*40/10*
7033M50	**7033AM50**	M50x1,5	57	5,0	*40/10*	*28/7*
7033M63	**7033AM63**	M63x1,5	70	5,5	*32/8*	*20/5*

STAINLESS STEEL | -40°C +100°C



Pg thread DIN 40 430

Stainless Steel AISI 303	Stainless Steel AISI 316L	P	B Spanner (mm)	H (mm)	AISI 303 Quantity Box/Bag	AISI 316L Quantity Box/Bag
7032007	**7032A007**	Pg 7	16	2,8	*450/30*	*300/20*
7032009	**7032A009**	Pg 9	20	2,8	*450/30*	*300/20*
7032011	**7032A011**	Pg11	22	3,0	*300/30*	*200/20*
7032013	**7032A013**	Pg13,5	22	3,0	*300/30*	*200/20*
7032016	**7032A016**	Pg16	27	3,0	*240/30*	*160/20*
7032021	**7032A021**	Pg21	32	3,5	*160/20*	*150/15*
7032029	**7032A029**	Pg29	41	4,0	*60/15*	*40/10*
7032036	**7032A036**	Pg36	50	5,0	*40/10*	*28/7*
7032042	**7032A042**	Pg42	60	5,0	*40/10*	*20/5*
7032048	**7032A048**	Pg48	64	5,5	*32/8*	*20/5*

CEMBRE

TCP

INTERNAL PLUGS FOR CABLE GLANDS

Polyamide PA6.6



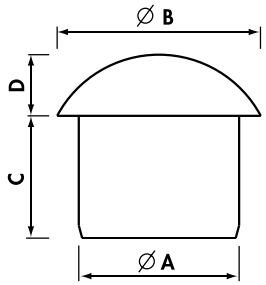
For cable glands type:

MAXIblock®
MAXIbrass®
MAXIinox

PA 6.6 | IP68 | V2 UL94 | -40°C +100°C

Material: POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Colour: RAL 9005 black

Application:
Blanking the cable entry of cable glands and maintaining IP 68.



Plugs

Type	Suitable for MAXIblock® 1900	Suitable for MAXIblock® 1940	Suitable for MAXIbrass® MAXIinox 2900 / 7900	Suitable for MAXIbrass® MAXIinox 2940	Ø A (mm)	Ø B (mm)	C (mm)	D (mm)	Quantity Box/Bag
TCP5	M12R + Pg7R		M12R		4,5	8,5	10,8	4,5	*3.000/100*
TCP10	Pg9R		Pg9R		6,0	12,0	12,0	4,5	*1.500/100*
TCP12	M12 + Pg7		M12 + Pg7		6,8	12,0	12,0	4,5	*1.000/100*
	M16R + Pg11R		M16R + Pg11R						
TCP15	Pg9		Pg9	M12	8,0	11,0	11,5	5,0	*1.500/100*
TCP18	M16 + Pg11		M16 + Pg11		9,5	12,5	13,0	5,0	*800/100*
TCP20	M20R		M20R		10,0	15,0	14,0	6,0	*800/100*
	Pg13,5 + Pg13,5R		Pg13,5 + Pg13,5R	M16					
	Pg16R		Pg16R						
TCP25	M20 + Pg16	M20	M20 + Pg16		12,5	17,0	15,0	8,0	*300/100*
TCP30	M25R + M32R		M25R + M32R		12,5	22,5	18,0	9,0	*300/100*
	Pg21R		Pg21R						
TCP35	M25 + Pg21	M25	M25 + Pg21	M20	16,0	19,5	18,0	8,0	*200/100*
TCP40	M32		M32	M25	19,0	22,5	19,0	9,0	*150/50*
TCP45	M40R + Pg29 + Pg36R	M32	M40R + Pg29	M32	22,0	30,0	20,0	10,0	*100/50*
TCP50	M40 + M50R + Pg42R		M40 + M50R		27,5	38,0	25,0	12,0	*50/25*
TCP55	Pg36	M40 + M40E	Pg36	M40	31,5	36,5	23,5	12,0	*50/25*
TCP60	M50		M50		34,5	40,0	23,5	12,0	*50/25*
TCP65	M63R + Pg42 + Pg48R	M50 + M50E	M63R + Pg42	M50	37,5	48,0	26,5	12,0	*30/15*
TCP70	M63 + Pg48		M63 + Pg48	M50E	43,0	48,0	26,5	12,0	*30/15*

R: reduced cable entry

MULTI-ENTRY SEALS FOR CABLE GLANDS

Neoprene® 70 sh A

36A
36C

For cable glands type:

MAXIblock®
MAXIbrass®
MAXIinox

Material: NEOPRENE® 70 sh A
Temperature range:
–40°C to +130°C
Protection: IP 68
Colour: RAL 9005 black

Application:
IP68 sealing of multiple cables entering cable glands.

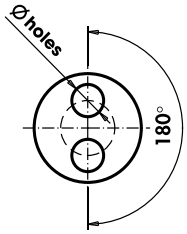


Multi-entry seals

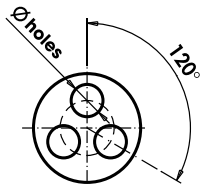
NEOPRENE | IP68 | -40°C +130°C

Type	Suitable for MAXIblock® 1900	Suitable for MAXIblock® 1940	Suitable for MAXIbrass® MAXIinox 2900 / 7900	Suitable for MAXIbrass® MAXIinox 2940	No. entries	Ø entries (mm)	Quantity Box/Bag
36A3M1623	M16 + Pg11		M16 + Pg11		2	3,0	500/100
36A3M1624	M16 + Pg11		M16 + Pg11		2	4,0	1.000/100
36A3M16322	M16 + Pg11		M16 + Pg11		3	2,2	1.000/100
36A3M2025	M20 + Pg13,5		M20 + Pg13,5 + Pg16	M16	2	5,0	500/100
36A3M2026	M20 + Pg13,5		M20 + Pg13,5 + Pg16	M16	2	6,0	500/100
36A3M2034	M20 + Pg13,5		M20 + Pg13,5 + Pg16	M16	3	4,0	500/100
36A3M2035	M20 + Pg13,5		M20 + Pg13,5 + Pg16	M16	3	5,0	500/100
36A3M20356	M20 + Pg13,5		M20 + Pg13,5 + Pg16	M16	3	5,6	500/100
36A3M2526	M25		M25 + Pg21	M20	2	6,0	300/50
36A3M2536	M25		M25 + Pg21	M20	3	6,0	300/50
36A3M2537	M25		M25 + Pg21	M20	3	7,0	300/50
36A3M2545	M25		M25 + Pg21	M20	4	5,0	300/50
36A3M2546	M25		M25 + Pg21	M20	4	6,0	300/50
36A3M2554	M25		M25 + Pg21	M20	5	4,0	300/50
36C3M252105	M25		M25 + Pg21	M20	2	5+10,5	300/50
36A3M3228	M32		M32	M25	2	8,0	150/50
36A3M3239	M32		M32	M25	3	9,0	150/50
36A3M32465	M32		M32	M25	4	6,5	150/50
36A3M3248	M32		M32	M25	4	8,0	150/50
36A3M4078	M40		M40		7	8,0	100/100
36A3M40106	M40		M40		10	6,0	100/100
36A3M5088	M50 + Pg 36	M40 + M40E	M50 + Pg 36	M40	8	8,0	50/50
36C201629	Pg16	M20	-	-	2	3+9	400/50

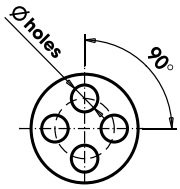
2 ENTRIES



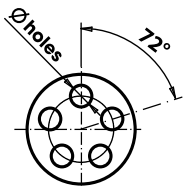
3 ENTRIES



4 ENTRIES



5 ENTRIES



MULTI-ENTRY SEAL PLUGS FOR CABLE GLANDS

Polyamide PA6.6

TGM

Material: POLYAMIDE PA6.6
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Colour: RAL 7035 light grey

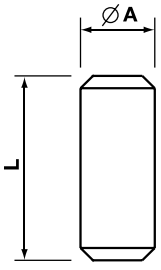
Application:
Plugging unused entries in multi-entry seals and maintaining IP68.



PA 6.6 | IP68 | -40°C +100°C

Multi-entry seal plugs

Type	Suitable for Seal	Ø A (mm)	L (mm)	Quantity Box/Bag
TGM38	36A3M1623	3	10	5.000/100
TGM48	36A3M1624 + 36A3M2034 + 36A3M2554	4	8	5.000/100
TGM58	36A3M2025 + 36A3M2035	5	8	5.000/100
TGM513	36A3M2545	5	13	2.500/50
TGM613	36A3M2526 + 36A3M2536 + 36A3M40106 + 36A3M2546 + 36A3M2026	6	13	2.000/50
TGM713	36A3M2537	7	13	2.000/50
TGM817	36A3M3248 + 36A3M5088 + 36A3M4078 + 36A3M3228	8	17	100



CEMBRE

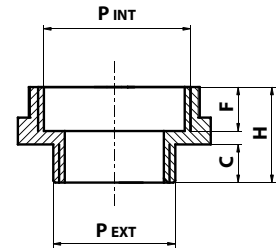
1173M
1153M

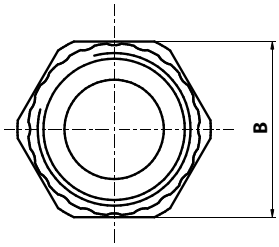
ENTRY THREAD ADAPTERS

Polyamide PA6.6



Material:
POLYAMIDE PA6.6
self-extinguishing class V2 (UL 94)
Temperature range:
–40°C to +85°C (dynamic)
Colour: RAL 7035 light grey,
RAL 9005 black



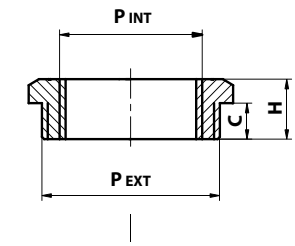


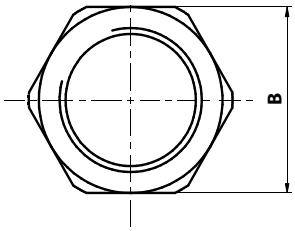
Entry thread enlargers

Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	B Spanner (mm)	F (mm)	C (mm)	H (mm)	Quantity Box/Bag
1173M1216	M12x1,5	M16x1,5	20,0	10,5	8,0	21,0	200/100
1173M1620	M16x1,5	M20x1,5	24,0	10,5	8,0	21,0	200/100
1173M2025	M20x1,5	M25x1,5	29,0	10,0	8,0	21,0	100/50
1173M2532	M25x1,5	M32x1,5	36,0	11,5	8,0	23,0	50/50
1173M3240	M32x1,5	M40x1,5	46,0	11,5	10,0	25,0	50/50







Entry thread reducers

Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	B Spanner (mm)	C (mm)	H (mm)	Quantity Box/Bag
1153M1612	M16x1,5	M12x1,5	22,0	8,0	12,0	300/100
1153M2012	M20x1,5	M12x1,5	24,0	8,0	12,0	300/100
1153M2016*	M20x1,5	M16x1,5	24,0	8,0	12,0	300/100
1153M2512	M25x1,5	M12x1,5	29,0	8,0	14,0	200/100
1153M2516	M25x1,5	M16x1,5	29,0	8,0	14,0	150/50
1153M2520*	M25x1,5	M20x1,5	29,0	8,0	14,0	150/50
1153M3216	M32x1,5	M16x1,5	36,0	10,0	16,0	100/50
1153M3220	M32x1,5	M20x1,5	36,0	10,0	16,0	100/50
1153M3225*	M32x1,5	M25x1,5	36,0	10,0	16,0	100/50
1153M4020	M40x1,5	M20x1,5	46,0	10,0	16,0	50/25
1153M4025	M40x1,5	M25x1,5	46,0	10,0	16,0	50/25
1153M4032	M40X1,5	M32X1,5	46,0	10,0	16,0	50/25
1153M5025	M50X1,5	M25x1,5	55,0	12,0	18,0	30/10
1153M5032	M50X1,5	M32X1,5	55,0	12,0	18,0	30/10
1153M5040	M50X1,5	M40X1,5	55,0	12,0	18,0	30/10
1153M6332	M63X1,5	M32X1,5	68,0	12,0	18,0	20/10
1153M6340	M63X1,5	M40X1,5	68,0	12,0	18,0	20/10
1153M6350	M63X1,5	M50X1,5	68,0	12,0	18,0	20/10

***Add to Ref: N for Black**

ENTRY THREAD ADAPTERS

Nickel Plated Brass

2093
2043
20A4



BRASS | 3µm NICKEL PLATED | -40°C +100°C

Entry thread enlargers

Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	ØA (mm)	C (mm)	H (mm)	Quantity Box/Bag
20931216N	M12x1,5	M16x1,5	18	5	15,5	*500/100*
20931620N	M16x1,5	M20x1,5	22	5	17,5	*300/100*
20932025N	M20x1,5	M25x1,5	27	6	20,0	*150/50*
20932532N	M25x1,5	M32x1,5	34	7	22,5	*100/50*
20932540N	M25x1,5	M40x1,5	42	7	23,5	*50/50*
20933240N	M32x1,5	M40x1,5	42	8	24,5	*50/50*
20933250N	M32x1,5	M50x1,5	52	8	27,5	*25/25*
20934050N	M40x1,5	M50x1,5	52	8	27,5	*25/25*
20935063N	M50x1,5	M63x1,5	66	9	31,0	*20/10*

Entry thread reducers

Metric thread M 1.5 pitch CEI EN 60423

Type	P EXT	P INT	ØA (mm)	C (mm)	H (mm)	Quantity Box/Bag
20431612N	M16x1,5	M12x1,5	18	5	7,5	*1.000/100*
20432012N	M20x1,5	M12x1,5	22	6	9,0	*600/100*
20432016N	M20x1,5	M16x1,5	22	6	9,0	*500/100*
20432512N	M25x1,5	M12x1,5	27	7	10,0	*300/50*
20432516N	M25x1,5	M16x1,5	27	7	10,0	*300/50*
20432520N	M25x1,5	M20x1,5	27	7	10,0	*300/100*
20433220N	M32x1,5	M20x1,5	34	8	11,0	*100/25*
20433225N	M32x1,5	M25x1,5	34	8	11,0	*150/50*
20434025N	M40x1,5	M25x1,5	43	8	11,5	*100/25*
20434032N	M40x1,5	M32x1,5	43	8	11,5	*100/25*
20435032N	M50x1,5	M32x1,5	53	9	12,5	*50/10*
20435040N	M50x1,5	M40x1,5	53	9	12,5	*50/25*
20436340N	M63x1,5	M40x1,5	66	10	14,0	*30/10*
20436350N	M63x1,5	M50x1,5	66	10	14,0	*30/10*

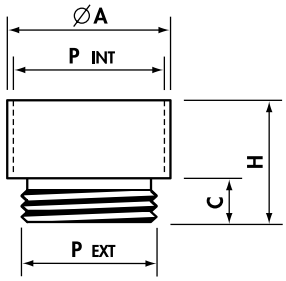


Fig. 1

Entry thread converters - Metric to Pg

Type	P EXT	P INT	Fig.	ØA (mm)	C (mm)	H (mm)	Quantity Box/Bag
20A42011N	M20x1,5	Pg11	1	22	6,5	17,5	*300/100*
20A42016N	M20x1,5	Pg16	1	24	6,5	20,0	*200/50*
20A42513N	M25x1,5	Pg13,5	2	27	7,0	10,0	*300/50*
20A42516N	M25x1,5	Pg16	2	27	7,0	10,0	*300/50*
20A43216N	M32x1,5	Pg16	2	36	8,0	11,5	*100/25*
20A43221N	M32x1,5	Pg21	2	36	8,0	11,5	*100/25*

Entry thread converters - Pg to Metric

20A40916N	Pg 9	M16x1,5	1	20	6,0	15,0	*400/100*
20A41120N	Pg11	M20x1,5	1	22	6,0	16,0	*300/100*
20A41320N	Pg13,5	M20x1,5	1	24	6,5	16,5	*200/50*
20A41620N	Pg16	M20x1,5	2	24	6,5	9,5	*50/50*
20A42120N	Pg21	M20x1,5	2	30	7,0	10,0	*100/100*
20A42125N	Pg21	M25x1,5	2	30	7,0	10,0	*100/100*
20A42925N	Pg29	M25x1,5	2	39	8,0	11,5	*50/50*

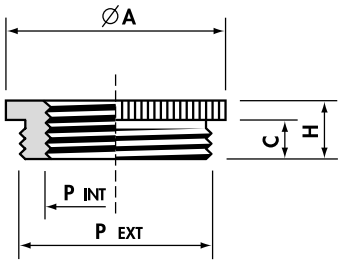


Fig. 2

CEMBRE

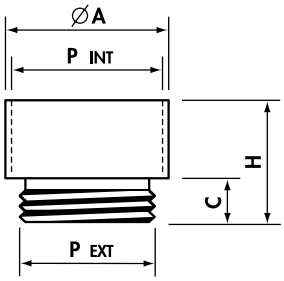
1800 2042

ENTRY THREAD ADAPTERS

Nickel Plated Brass



BRASS | 3µm NICKEL PLATED | -40°C +100°C



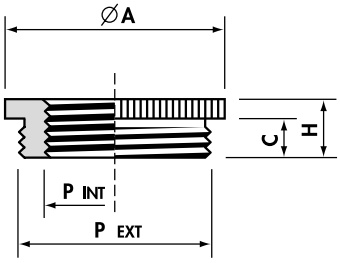
Entry thread enlargers

Pg thread DIN 40 430 - Dimensions DIN 46 320-K

Type	P EXT	P INT	Ø A (mm)	C (mm)	H (mm)	Quantity Box/Bag
180709	Pg 7	Pg 9	17	5,0	15,0	600/100
180911	Pg 9	Pg11	20	6,0	16,5	500/100
180913	Pg 9	Pg13,5	22	6,0	17,5	300/100
181113	Pg11	Pg13,5	22	6,0	17,5	300/100
181116	Pg11	Pg16	24	6,0	18,5	100/50
181316	Pg13,5	Pg16	24	6,5	19,0	200/50
181321	Pg13,5	Pg21	30	6,5	21,0	150/50
181621	Pg16	Pg21	30	6,5	21,0	100/25
182129	Pg21	Pg29	39	7,0	23,0	75/25
182936	Pg29	Pg36	50	8,0	27,5	30/10
183642	Pg36	Pg42	57	9,0	31,0	20/10
184248	pg42	pg48	64	10,0	33,0	20/10

Entry thread reducers

Pg thread DIN 40 430 - Dimensions DIN 46 320-H



Type	P EXT	P INT	Ø A (mm)	C (mm)	H (mm)	Quantity Box/Bag
20420907N	Pg 9	Pg 7	17	6,0	8,5	800/100
20421107N	Pg11	Pg 7	20	6,0	8,5	600/100
20421109N	Pg11	Pg 9	20	6,0	8,5	600/100
20421307N	Pg13,5	Pg 7	22	6,5	9,0	600/100
20421309N	Pg13,5	Pg 9	22	6,5	9,0	600/100
20421311N	Pg13,5	Pg11	22	6,5	9,0	600/100
20421607N	Pg16	Pg 7	24	6,5	9,5	300/50
20421609N	Pg16	Pg 9	24	6,5	9,5	400/100
20421611N	Pg16	Pg11	24	6,5	9,5	400/100
20421613N	Pg16	Pg13,5	24	6,5	9,5	400/100
20422111N	Pg21	Pg11	30	7,0	10,0	200/50
20422113N	Pg21	Pg13,5	30	7,0	10,0	200/50
20422116N	Pg21	Pg16	30	7,0	10,0	200/50
20422916N	Pg29	Pg16	39	8,0	11,5	100/25
20422921N	Pg29	Pg21	39	8,0	11,5	100/25
20423621N	Pg36	Pg21	50	9,0	12,5	50/25
20423629N	Pg36	Pg29	50	9,0	12,5	50/25
20424236N	Pg42	Pg36	57	10,0	14,0	50/25
20424836N	Pg48	Pg36	64	10,0	14,0	25/25
20424842N	Pg48	Pg42	64	10,0	14,0	50/25

Zinc plated STEEL



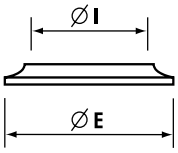
Compression washers

Type	Fits thread	Ø E (mm)	Ø I (mm)	Quantity Box/Bag
6010.14	Pg7 + G1/4"	11,0	8,0	*15.000/1.000*
6010.38	Pg9 + G3/8"	14,5	10,0	*5.000/1.000*
6010.11	Pg11 + G3/8"	17,0	12,0	*5.000/1.000*
6010.12	Pg13,5 + G1/2"	18,0	14,0	*4.000/1.000*
6010.58	Pg16 + G5/8"	20,0	15,5	*3.000/1.000*
6010.34	G3/4"	24,0	18,5	*2.500/500*
6010.114	G1"1/4	38,0	33,0	*1.000/500*
6010.21	Pg21 + G3/4"	26,5	20,0	*2.000/500*
6010.01	G1"	30,0	24,5	*1.500/500*
6010.29	Pg29 + G1"1/8	35,0	26,5	*1.000/500*
6010.36	Pg36 + G1"1/2	45,0	38,0	*750/250*
6010.42	Pg42	51,0	42,5	*500/250*
6010.48	Pg48 + G2"	57,0	48,0	*400/100*

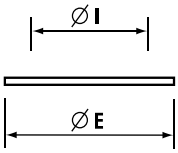
Subject to availability, the compression washers could be of type A or B



Material:
Zinc plated STEEL UNI 5961/84



Type A



Type B

341
342
343
344

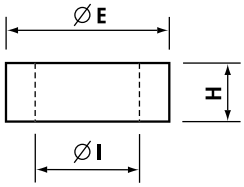
SEALING RINGS

PVC 50 sh A



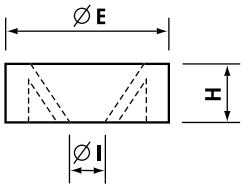
PVC -20°C +90°C

Material: PVC 50 sh A
Colour: Red



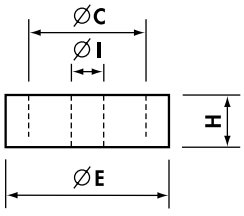
Cylindrical sealing rings

Type	Suitable for Cable Glands IP54 (1700.., 2001.., 2002.., 2003..)	C (mm)	Ø E (mm)	Ø I (mm)	H (mm)	Quantity Box/Bag
3411014	G1/4″	–	10,9	6,7	6,0	*1.500/100*
3411038	G3/8″ + M16	–	14,5	8,5	6,0	*1.000/100*
3411012	Pg13,5 + G1/2″ + M20	–	18,0	11,0	7,5	*500/100*
3412016	Pg16 + G5/8″	–	20,0	14,0	7,5	*300/100*
3422016	Pg16 + G5/8″	–	20,0	10,0	7,5	*300/100*
3411034	G3/4″	–	23,5	17,5	8,0	*300/100*
3411100	G1″	–	29,0	22,0	10	*200/100*
3412011	Pg11	–	16,5	10,0	7,0	*1.000/100*
3412021	Pg21 + M25	–	26,0	18,0	8,5	*300/100*
3412029	Pg29 + G1″1/8 + M32	–	35,0	26,0	10,0	*200/100*



Membrane sealing rings

Type	Suitable for Cable Glands IP54 (1700.., 2001.., 2002.., 2003..)	C (mm)	Ø E (mm)	Ø I (mm)	H (mm)	Quantity Box/Bag
3431100	G1″	–	29	15	9,5	*200/100*



Double sealing rings

Type	Suitable for Cable Glands IP54 (2001.., 2002.., 2003..)	C (mm)	Ø E (mm)	Ø I (mm)	H (mm)	Quantity Box/Bag
3441012	G1/2″ + Pg13,5 + M20	13	18,5	8	6,5	*500/100*
3441034	G3/4″	17	23	12,5	8,5	*300/100*

SEALING RINGS

Butadiene-Nitrile NBR

1880
1890



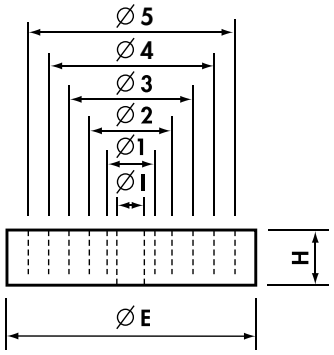
Concentric sealing rings

Type	Suitable for Cable Glands IP54 (1700.., 2001.., 2002.., 2003..)	Ø E (mm)	Ø 5 (mm)	Ø 4 (mm)	Ø 3 (mm)	Ø 2 (mm)	Ø 1 (mm)	Ø I (mm)	H (mm)	Quantity Box/Bag
1880	Pg9 + M16	13,3	–	–	–	10,0	7,5	5,0	5,5	*1.500/100*
1881	Pg11	16,5	–	–	–	12,5	10,0	7,5	6,0	*1.000/100*
1882	Pg13,5 + M20 + G1/2"	18,3	–	–	–	12,5	10,0	7,5	6,0	*800/100*
1883	Pg16 + G5/8"	20,4	–	–	15,0	12,5	10,0	7,5	7,0	*600/100*
1884	Pg21 + M25	26,0	–	–	19,0	16,0	13,0	10,0	8,0	*300/100*
1884A	Pg21 + M25	26,0	–	–	20,5	18,0	15,0	10,5	8,0	*50/25*
1885*	Pg29 + M32 + G1"1/8	34,7	–	–	27,0	24,0	21,0	18,0	9,5	*150/50*
1886	Pg36 + G1"1/2 + M40	44,7	–	–	33,0	30,0	27,0	24,0	12,0	*100/50*
1887*	Pg42 + M50	51,7	–	–	39,0	36,0	33,0	30,0	14,0	*50/25*
1888/5	Pg48 + G2" + M63	57,0	45	41	37,0	33,0	29,0	24,0	14,0	*75/25*
1888*	Pg48 + G2" + M63	57,0	–	–	45,0	42,0	39,0	36,0	14,0	*50/25*

***material: RUBBER NR**

NBR -30°C +100°C

Material:
BUTADIENE-NITRILE NBR
with concentric perforations

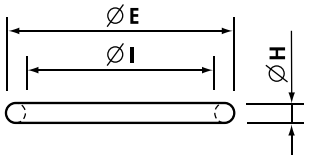


O-rings

Type	Fits thread	Ø E (mm)	Ø I (mm)	Ø H (mm)	Quantity Box/Bag
1889	M12	12,81	9,25	1,78	*1.000/1.000*
1890	Pg7 + G1/4"	14,38	10,82	1,78	*5.000/1.000*
1890A	M16 + Pg9 + G3/8"	15,98	12,42	1,78	*5.000/1.000*
1891	Pg11	19,16	15,60	1,78	*5.000/1.000*
1891A	M20	20,73	17,17	1,78	*5.000/1.000*
1892	Pg13,5 + G1/2"	22,33	18,77	1,78	*5.000/1.000*
1892A	Pg16 + G5/8"	23,91	20,35	1,78	*5.000/1.000*
1892B	M25	25,51	21,95	1,78	*5.000/1.000*
1893	Pg21	28,68	25,12	1,78	*3.000/500*
1893A	M32	30,00	26,00	2,00	*500/500*
1925.3	G3/4"	30,31	25,07	2,62	*1.000/500*
1894	G1"	35,06	29,82	2,62	*1.000/500*
1895	M40 + Pg29 + G1"1/8	39,84	34,60	2,62	*1.000/500*
1896	G1"1/4	43,01	37,77	2,62	*500/500*
1897	Pg36 + G1"1/2	49,36	44,12	2,62	*800/100*
1898	Pg42 + G1"3/4	55,71	50,47	2,62	*800/100*
1899	Pg48 + G2"	62,06	56,82	2,62	*100*
1899A	G2"1/2	76,50	69,44	3,53	*100/1*
1899B	G3"	92,60	81,92	5,34	*100/1*

NBR -30°C +100°C

Material:
Butadiene-Nitrile 70 sh



CEMBRE

357

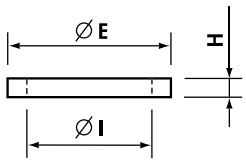
SEALING RINGS

Butadiene-Stirene SBR 70shA



SBR -20°C +70°C

Material:
BUTADIENE-STIRENE SBR 70 sh A
Temperature range: -20°C to +70°C
Colour: RAL 7035 light grey



Type	Fits thread	ØE (mm)	ØI (mm)	H (mm)	Quantity Box/Bag
3572007	Pg7	16,5	11,5	1,0	4.000/100
3572011	Pg11	23,0	17,5	1,0	2.500/100
35720131	Pg13,5 + M20X1,5 + G1/2"	27,5	20,5	1,4	1.000/100
3572013	Pg13,5	30,0	20,5	2,2	1.000/100
3572016	Pg16	29,0	23,0	2,0	1.000/100
3572021	Pg21	33,5	27,0	3,0	500/100
3573M16	M16x1,5	20,5	16,3	1,0	3.000/100
3573M20	M20X1,5 + Pg13,5 + G1/2"	25,5	20,5	1,0	4.000/100
3573M25	M25x1,5	30,5	25,5	1,0	2.000/100

FD

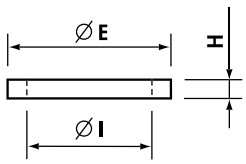
SEALING RINGS

Neoprene® 80 sh A



NEOPRENE -25°C +100°C

Material:
NEOPRENE® 80 sh A
Temperature range: -25°C to +100°C
Colour: RAL 9005 black



Type	Fits thread	ØE (mm)	ØI (mm)	H (mm)	Quantity Box/Bag
FD M12	M12	16,0	10,0	1,2	2.500/50
FD 7	Pg7 + G1/4"	17,0	11,3	1,2	3.000/50
FD 9	Pg9 + M16	20,0	13,9	1,2	2.000/50
FD M16	M16* + G3/8"	20,0	15,5	1,2	2.000/50
FD 11	Pg11	23,0	17,1	1,2	2.000/50
FD M20	M20	24,0	18,0	1,2	2.000/50
FD 13,5	Pg13,5 + G1/2"	25,0	19,0	1,2	2.500/50
FD 16	Pg16 + G5/8"	27,0	21,0	1,2	1.500/50
FD M25	M25	31,0	23,0	1,2	1.000/50
FD 21	Pg21 + G3/4"	34,5	27,0	1,5	1.000/50
FD M32	M32 + G1"	36,0	30,0	1,3	600/20
FD 29	Pg29 + G1"1/8"	45,0	35,2	1,5	500/25
FD M40	M40 + G1"1/4	46,0	38,0	1,2	500/20
FD 36	Pg36 + G1"1/2"	53,5	45,6	1,2	250/25
FD M50	M50	55,0	47,5	1,1	10
FD 42	Pg42 + G1"3/4"	62,0	52,0	1,1	10
FD 48	Pg48 + G2"	68,0	58,0	1,1	10
FD M63	M63	68,0	59,0	1,1	500/5

***recommended with set screws**

ENTRY PLUGS

Polyamide PA6

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	ØA (mm)	C (mm)	Quantity Box/Bag
1053M12	M12x1,5	15	6	100
1053M16	M16x1,5	20	6	100
1053M20	M20x1,5	25	7	100
1053M25	M25x1,5	30	7	100
1053M32	M32x1,5	37	9	50
1053M40	M40x1,5	47	9	30
1053M50	M50x1,5	58	10	20
1053M63	M63x1,5	72	12	10

Add to Ref: N for Black

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	ØA (mm)	C (mm)	Quantity Box/Bag
1052007	Pg 7	15	6	100
1052009	Pg 9	19	6	100
1052011	Pg11	22	7	100
1052013	Pg13,5	25	7	100
1052016	Pg16	27	7	100
1052021	Pg21	33	9	50
1052029	Pg29	44	9	100/25
1052036	Pg36	55	10	20
1052042	Pg42	62	10	10
1052048	Pg48	69	12	10

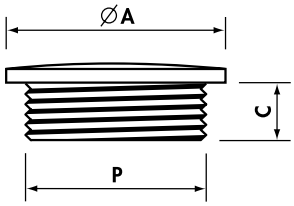
Add to Ref: N for Black

1053
1052



PA 6 | IP54 | IP68 * | HB UL94 | -40°C +100°C

Material: POLYAMIDE PA6
reinforced with fibreglass
self-extinguishing class HB (UL 94)
Temperature range:
–40°C to +100°C (static)
–20°C to +90°C (dynamic)
Protection: IP 54
Protection: IP 68 (*with the aid of FD sealing ring)
Colour: RAL 7035 light grey, RAL 9005 black



Polystyrene PS

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	ØA (mm)	C (mm)	Quantity Box/Bag
1253M12	M12x1,5	15	6	100
1253M16	M16x1,5	20	6	100
1253M20	M20x1,5	25	7	100
1253M25	M25x1,5	30	7	100
1253M32	M32x1,5	37	9	50
1253M40	M40x1,5	47	9	30
1253M50	M50x1,5	58	10	20
1253M63	M63x1,5	72	12	10

Add to Ref: N for Black

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	ØA (mm)	C (mm)	Quantity Box/Bag
1840	Pg 7	15	6	100
1841	Pg 9	19	6	100
1842	Pg11	22	7	100
1843	Pg13,5	25	7	100
1844	Pg16	27	7	100
1845	Pg21	33	9	50
1846	Pg29	44	9	100/25
1847	Pg36	55	10	20
1848	Pg42	62	10	10
1849	Pg48	69	12	10

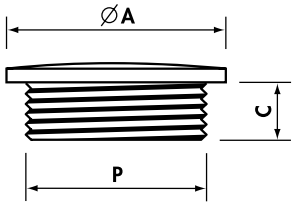
Add to Ref: N for Black

1253
1840



PS | IP54 | IP68 * | -20°C +60°C

Material: POLYSTYRENE PS
Temperature range:
–20°C to +60°C (dynamic)
Protection: IP 54
Protection: IP 68 (*with the aid of FD sealing ring)
Colour: RAL 7035 light grey,
RAL 9005 black



CEMBRE

ENTRY BUSHES

Polyamide PA6/PA6.6



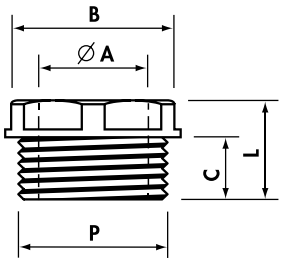


PA 6 V0 UL94

PA 6.6 V2 UL94 **

-20°C +90°C

Material: POLIAMMIDE PA6 / PA6.6**
self-extinguishing class V0 / V2** (UL 94)
Temperature range:
–20°C to +90°C (dynamic)
Colour: RAL 7035 light grey,
RAL 9005 black



Entry bushes

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1700.2	Pg 9	10,0	16	9,0	14,0	600/100
*1701.2	Pg11	11,5	19	10,0	15,0	300/100
*1702.2**	Pg13,5	13,5	21	11,0	16,5	300/100
1703.2	Pg16	16,0	23	12,5	18,5	200/50
1704.2	Pg21	22,0	30	12,0	17,5	100/50
1705.2	Pg29	27,0	40	15,0	22,0	50/50

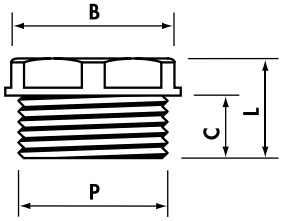
BSP thread ISO 228/1

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1830	G1/4″	8,5	15	8,5	13,5	800/100
*1831	G3/8″	11,5	17	9,0	14,0	300/100
*1832**	G1/2″	13,0	21	11,0	16,5	300/100

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
1835	M16x1,5	11,5	17	9	14,0	400/100
*1836**	M20x1,5	13,5	21	11	16,5	300/100

***Add to Ref: N for Black**



Blind entry bushes

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1702.5**	Pg13,5	–	21	11,0	17,0	300/100
1703.5	Pg16	–	23	12,5	18,5	200/100

BSP thread ISO 228/1

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1861	G3/8″	–	17	9	14	600/100
*1862**	G1/2″	–	21	11	16,5	200/100

Metric thread M 1.5 pitch CEI EN 60423

Type Light Grey	P	Ø A (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
*1866**	M20x1,5	–	21	11	17	100

***Add to Ref: N for Black**

ENTRY PLUGS

Nickel Plated Brass

2053
2052



BRASS | 3µm NICKEL PLATED | IP54 | IP68 * | -40°C +100°C

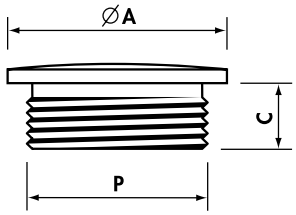
Material: NICKEL PLATED BRASS (CuZn 40 Pb 3)
–40°C to +100°C (static)
–25°C to +100°C (dynamic)
Protection: IP 54
Protection: IP 68 (*with the aid of FD sealing ring)

Metric thread M 1.5 pitch CEI EN 60423

Type Nickel Plated Brass	P	ØA (mm)	C (mm)	Quantity Box/Bag
2053M12N	M12x1,5	14	5,0	1.500/100
2053M16N	M16x1,5	18	5,0	1.000/100
2053M20N	M20x1,5	22	6,5	400/100
2053M25N	M25x1,5	28	7,0	200/100
2053M32N	M32x1,5	35	8,0	150/25
2053M40N	M40x1,5	44	8,5	100/25
2053M50N	M50x1,5	54	9,0	50/25
2053M63N	M63x1,5	67	10,0	25/25

Pg thread DIN 40 430 - Dimensions DIN 46 320

Type Nickel Plated Brass	P	ØA (mm)	C (mm)	Quantity Box/Bag
2052007N	Pg 7	14	5,0	1.500/100
2052009N	Pg 9	17	6,0	1.000/100
2052011N	Pg11	20	6,0	500/100
2052013N	Pg13,5	22	6,5	500/100
2052016N	Pg16	24	6,5	500/100
2052021N	Pg21	30	7,0	200/50
2052029N	Pg29	39	8,0	100/25
2052036N	Pg36	50	9,0	50/25
2052042N	Pg42	57	10,0	25/25
2052048N	Pg48	64	10,0	25/25



ENTRY BUSHES

Brass

2021



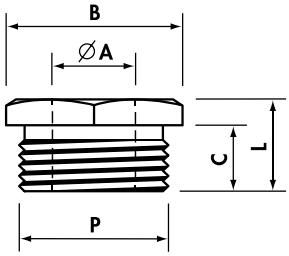
BRASS | -25°C +100°C

Material: PLAIN BRASS

BSP thread ISO 228/1

Type Brass	P	ØA (mm)	B Spanner (mm)	C (mm)	L min-max (mm)	Quantity Box/Bag
2021014	G1/4"	10,0	13	6,0	8,5	1.000/100
2021038	G3/8"	12,0	17	7,5	10,5	800/100
2021012	G1/2"	16,0	21	9,5	13,0	400/100
2021058	G5/8"	18,0	23	10,0	13,5	250/50
2021034	G3/4"	21,0	27	10,0	14,0	200/50
2021100	G1"	26,5	34	11,0	15,5	100/50
2021118	G1"1/8	31,0	38	12,0	16,5	100/25
2021114	G1"1/4	35,0	42	13,0	18,0	50/25
2021112	G1"1/2	41,5	48	13,0	18,5	50/25
2021200	G2"	51,5	60	13,5	19,5	25/25

Add to Ref: N for NICKEL PLATED BRASS



CEMBRE

RS

GROMMETS

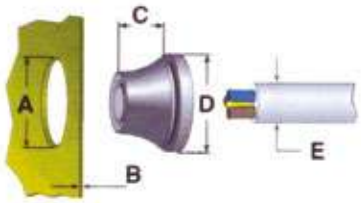
Rubber EPDM



EPDM | IP67 | -40°C +110°C | CE | UKCA

HF HALOGEN FREE

Material: Rubber EPDM halogen-free and chemical resistant
Temperature range:
–40°C to +110°C
Protection: IP 67
Colour: RAL 7001 light grey
Application:
IP67 sealing of cables and conduits in Metric and Pg threaded entries through material thickness 0,5-4 mm



Fits Metric thread

Type	Fits Threaded Entry	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Quantity Box/Bag
RS0407.M12	M12	12,5	0,5 - 2	5,6	20,0	4 - 7	4000/50
RS0509.M16	M16	16,5	1 - 4	11,0	21,0	5 - 9	4000/50
RS0813.M20	M20/Pg13,5	20,5	1 - 4	13,4	25,5	8 - 13	2000/50
RS1117.M25	M25	25,5	1 - 4	15,3	30,5	11 - 17	1500/50
RS1520.M32	M32	32,5	1 - 4	18,6	38,5	15 - 20	750/25
RS1928.M40	M40	40,5	1 - 4	21,7	48,5	19 - 28	400/25
RS2735.M50	M50	50,5	1 - 4	25,0	60,5	27 - 35	250/10

Fits Pg thread

Type	Fits Threaded Entry	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Quantity Box/Bag
RS0305.07	Pg 7	12,5	0,5 - 2	5,4	20,0	3 - 5	4000/50
RS0507.09	Pg 9	16,0	1 - 4	10,3	21,0	5 - 7	4000/50
RS0710.11	Pg11	19,0	1 - 4	12,7	24,0	7 - 10	2000/50
RS1014.16	Pg16	23,0	1 - 4	14,7	28,0	10 - 14	1500/50
RS1420.21	Pg21	29,0	1 - 4	17,6	35,0	14 - 20	750/25
RS2026.29	Pg29	38,0	1 - 4	20,0	46,0	20 - 26	400/25
RS2635.36	Pg36	48,0	1 - 4	23,9	58,0	26 - 35	250/10

3600

MODULAR RETAINING CLIPS

ABS

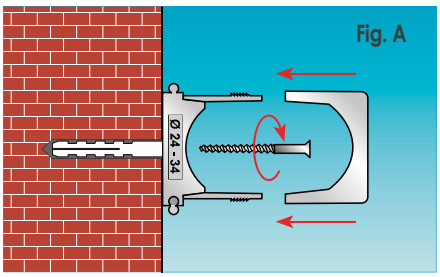


ABS | V2 UL94 | -20°C +80°C

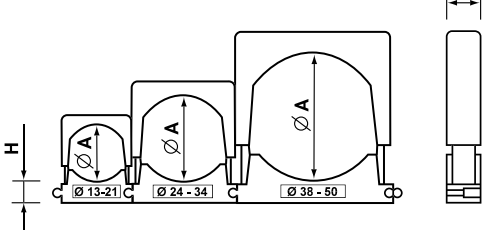
Material: ABS self-extinguishing class V0 (UL94) UV stabilised
Glow wire resistance:
750° C (CEI EN 60695-2-1)
Temperature range:
–20°C to +80°C (dynamic)
Colour: RAL 7035 light grey

SICURclips

Application: Fix SICURclip base to surface using dia. 5 - 6 mm screw (Ref. Fig. A).
Insert cable, tubing or flexible conduit.
Fit adjustable cover and press to secure.
Modular SICURclips of the same or different size may easily be joined together.



Type	Ø A min-max (mm)	H (mm)	S (mm)	Quantity
3601	13-21	8,5	16	100
3602	24-34	8,5	16	50
3603	38-50	8,5	16	25





SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES AND ACCESSORIES



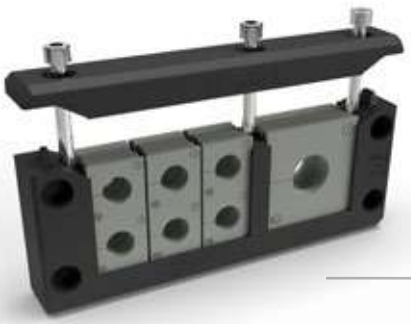
LOTS OF GREAT REASONS FOR CHOOSING EWO

- **Plug & Fix:** quick installation on predetermined cables for signal distribution, sensors and power supply
- **Easy to use:** frame can be fitted after laying the cables, which can also be secured with grommets in the final phase of machine wiring
- **For industrial automation:** ideal for applications in industrial automation, for cable management on the machine
- **Safety without compromise:** extremely safe and protected (IP66) even without an additional external seal
- **Grommets are perfectly enclosed by the frame,** with no protrusions, ensuring IP66 protection and cable sealing in accordance with EN62444

Extremely safe and protected (IP66) thanks to the special overmoulded seal which does not require an external seal



Frame can be fitted after laying the cables, which can also be secured with grommets in the final phase of machine wiring





Quick installation on predetermined cables for signal distribution, sensors and power supply



Ideal for applications in industrial automation, for cable management on the machine



Slim and space-saving thanks to the compact design and the absence of an external seal.

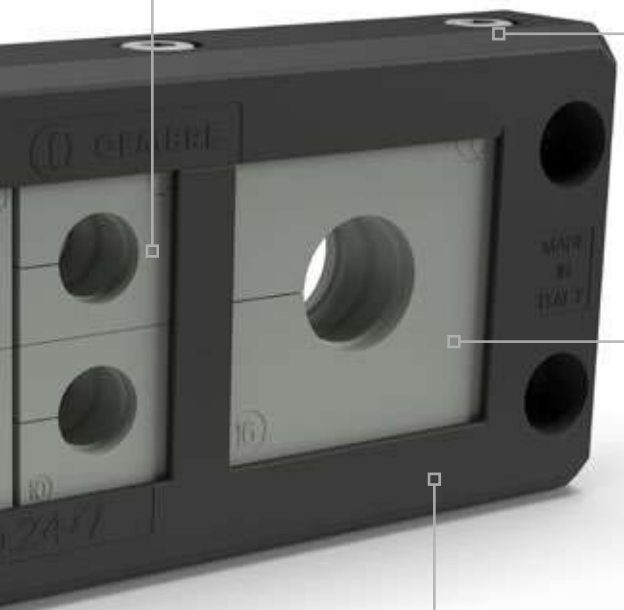


- **Slim and space-saving** thanks to the compact design and the absence of an external seal (available as an accessory)
- **Fast and flexible screw fastening:** anti-fall system for easier installation
- **Frame fixing system** using screws on nuts, deep-drawn holes or rivets
- **High quality material:** reinforced PA6.6 fibreglass frame with stainless steel screws and clamping nuts
- **180° of simplicity:** grommets can be mounted freely, without having to be locked in place, and without worrying about the direction of installation

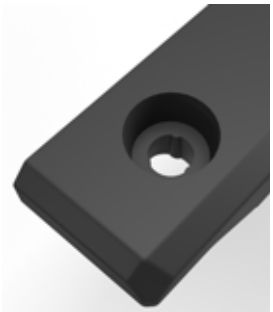
EWO® EASY WIRE ORGANIZER

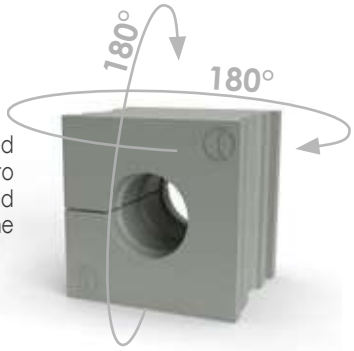
Grommets are perfectly enclosed by the frame, without protrusions, ensuring IP66 protection and cable sealing in accordance with EN62444





Fast and flexible screw fastening: anti-fall system for easier installation





Grommets can be mounted freely, without having to be locked in place, and without worrying about the direction of installation

Reinforced PA6.6 fibreglass frame stainless steel screws and clamping nuts



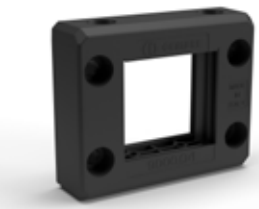
Frame fixing system using screws on nuts, deep-drawn holes or rivets



9000.Q

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

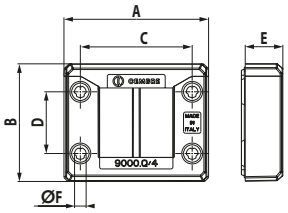
made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal



EWO® EASY WIRE ORGANIZER

NEW · PA 6.6 · IP66 · V0 UL94 · -40°C +140°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · NEMA 12 · NEMA 4X · c UL us File no. E535849

Cable entry system dimensions



Metal plate perforation dimensions

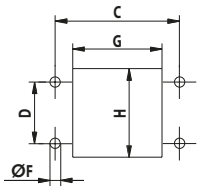


Diagram (grommets not included)





Marking/Approvals	RoHS COMPLIANT 2011/65/EU · CE · UK CA	RoHS COMPLIANT 2011/65/EU · CE · UK CA
Type		
Black (RAL 9005) ■	**9000.Q/4**	**9000.Q/1**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	75 mm	75 mm
B	61 mm	61 mm
C	58 mm	58 mm
D	32 mm	32 mm
E	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm
G	43 mm	43 mm
H	43 mm	43 mm
Weight	44 g	42 g
Material Specifications		
Frame material	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	4	-
Number of large grommets, type B	-	1
Certifications		
NEMA performance	12, 4X	12, 4X
UL Standard	50E	50E
UL file number	E535849	E535849
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.Q	9006.Q
Grommets	4 x type A	1 x type B
Drilling template CEMBRE*	RD43X43	RD43X43

*see page 289, 327

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

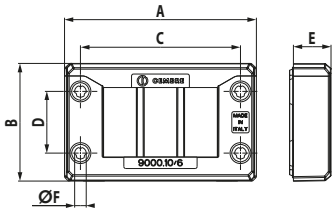
9000.10

made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

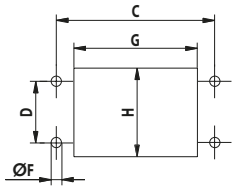
EWO® EASY WIRE ORGANIZER



Cable entry system dimensions



Metal plate perforation dimensions



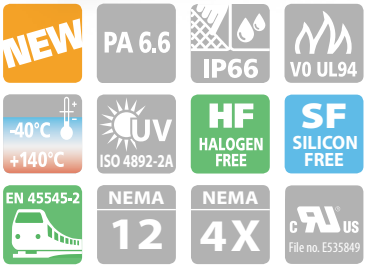


Diagram (grommets not included)		
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type		
Black (RAL 9005) ■	**9000.10/6**	**9000.10/3**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	99.5 mm	99.5 mm
B	61 mm	61 mm
C	83 mm	83 mm
D	32 mm	32 mm
E	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm
G	65 mm	65 mm
H	36/46 mm	36/46 mm
Weight	56 g	54 g
Material Specifications		
Frame material	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	6	2
Number of large grommets, type B	-	1
Certifications		
NEMA performance	12, 4X	12, 4X
UL Standard	50E	50E
UL file number	E535849	E535849
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.10	9006.10
Grommets	6 x type A	2 x type A and 1 x type B
Drilling template CEMBRE*	RD46X65 ; RD36X65	RD46X65 ; RD36X65

*see page 289, 327

9000.16

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

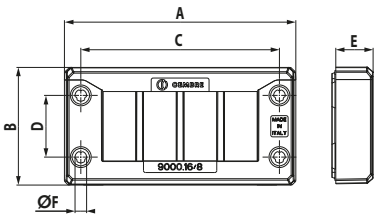
made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

EWO® EASY WIRE ORGANIZER



NEW · PA 6.6 · IP66 · V0 UL94 · -40°C +140°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · NEMA 12 · NEMA 4X · c UL us File no. E535849

Cable entry system dimensions



Metal plate perforation dimensions

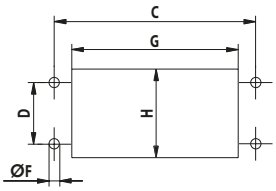


Diagram (grommets not included)			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type			
Black (RAL 9005) ■	**9000.16/8**	**9000.16/5**	**9000.16/2**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	120 mm	120 mm	120 mm
B	61 mm	61 mm	61 mm
C	103 mm	103 mm	103 mm
D	32 mm	32 mm	32 mm
E	19.5 mm	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm	5.5 mm
G	86 mm	86 mm	86 mm
H	36/46 mm	36/46 mm	36/46 mm
Weight	62 g	60 g	58 g
Material Specifications			
Frame material	PA6.6 + GF	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66	IP 66
Number of small grommets, type A	8	4	-
Number of large grommets, type B	-	1	2
Certifications			
NEMA performance	12, 4X	12, 4X	12, 4X
UL Standard	50E	50E	50E
UL file number	E535849	E535849	E535849
Cable clamping according to EN 62444	YES	YES	YES
Accessories upon request			
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.16	9006.16	9006.16
Grommets	8 x type A	4 x type A and 1 x type B	2 x type B
Drilling template CEMBRE*	RD46X86 ; RD36X86	RD46X86 ; RD36X86	RD46X86 ; RD36X86

*see page 289, 327

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

9000.24

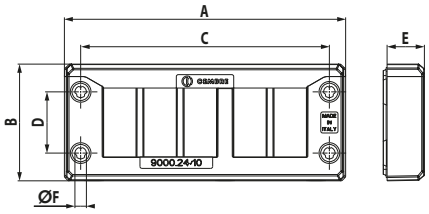
made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

EWO®
EASY WIRE ORGANIZER



NEW | PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | NEMA 12 | NEMA 4X | c UL us File no. E535849

Cable entry system dimensions



Metal plate perforation dimensions

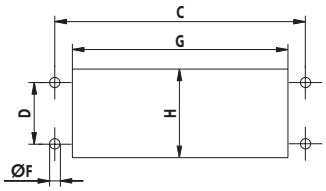


Diagram (grommets not included)			
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type			
Black (RAL 9005) ■	**9000.24/10**	**9000.24/7**	**9000.24/4**
Units in standard packaging	10	10	10
Units in minimum packaging	10	10	10
Dimensions and Weights			
A	147 mm	147 mm	147 mm
B	61 mm	61 mm	61 mm
C	130 mm	130 mm	130 mm
D	32 mm	32 mm	32 mm
E	19.5 mm	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm	5.5 mm
G	112 mm	112 mm	112 mm
H	36/46 mm	36/46 mm	36/46 mm
Weight	75 g	73 g	71 g
Material Specifications			
Frame material	PA6.6 + GF	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications			
Silicon free	YES	YES	YES
Halogen free	YES	YES	YES
ISO 4892-2A	YES	YES	YES
ROHS compliant	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66	IP 66
Number of small grommets, type A	10	6	2
Number of large grommets, type B	-	1	2
Certifications			
NEMA performance	12, 4X	12, 4X	12, 4X
UL Standard	50E	50E	50E
UL file number	E535849	E535849	E535849
Cable clamping according to EN 62444	YES	YES	YES
Accessories upon request			
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.24	9006.24	9006.24
Grommets	10 x type A	6 x type A and 1 x type B	2 x type A and 2 x type B
Drilling template CEMBRE*	RD46X112 ; RD36X112	RD46X112 ; RD36X112	RD46X112 ; RD36X112

*see page 289, 327

CEMBRE

9000.R

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

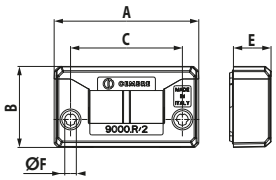
made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal



EWO EASY WIRE ORGANIZER

NEW · PA 6.6 · IP66 · V0 UL94 · -40°C +140°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · NEMA 12 · NEMA 4X · c UL us File no. E535849

Cable entry system dimensions



Metal plate perforation dimensions

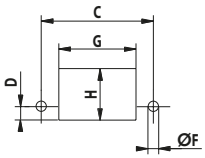


Diagram (grommets not included)





Marking/Approvals

RoHS COMPLIANT 2011/65/EU · CE · UK CA

RoHS COMPLIANT 2011/65/EU · CE · UK CA

Type		
Black (RAL 9005) ■	**9000.R/2**	**9000.R/3**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	75 mm	99.5 mm
B	42 mm	42 mm
C	58 mm	83 mm
D	5 mm	5 mm
E	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm
G	43 mm	65 mm
H	24 mm	24 mm
Weight	32 g	41 g
Material Specifications		
Frame material	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x35) Class A2	Stainless steel (M5x35) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	2	3
Number of large grommets, type B	-	-
Certifications		
NEMA performance	12, 4X	12, 4X
UL Standard	50E	50E
UL file number	E535849	E535849
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.R2	9006.R3
Grommets	2 x type A	3 x type A
Drilling template CEMBRE*	RD43X24	RD65X24

*see page 289, 327

SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

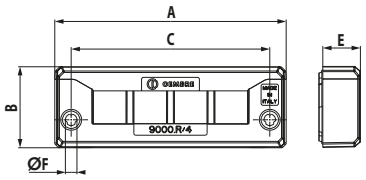
9000.R

made in glass-fibre reinforced polyamide PA6.6
with overmoulded seal

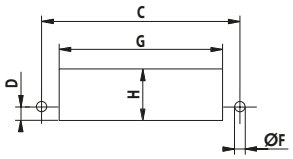
EWO® EASY WIRE ORGANIZER



Cable entry system dimensions



Metal plate perforation dimensions



NEW | PA 6.6 | IP66 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | NEMA 12 | NEMA 4X | c UL us File no. E535849

Diagram (grommets not included)





Marking/Approvals: RoHS COMPLIANT 2011/65/EU | CE | UK CA

Type		
Black (RAL 9005) ■	**9000.R/4**	**9000.R/5**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	120 mm	147 mm
B	42 mm	42 mm
C	103 mm	130 mm
D	5 mm	5 mm
E	19.5 mm	19.5 mm
ØF	5.5 mm	5.5 mm
G	86 mm	112 mm
H	24 mm	24 mm
Weight	46 g	56 g
Material Specifications		
Frame material	PA6.6 + GF	PA6.6 + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x35) Class A2	Stainless steel (M5x35) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	4	5
Number of large grommets, type B	-	-
Certifications		
NEMA performance	12, 4X	12, 4X
UL Standard	50E	50E
UL file number	E535849	E535849
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Stainless steel screws for wall attachment	9001.M5X25	9001.M5X25
External seal for uneven walls	9006.R4	9006.R5
Grommets	4 x type A	5 x type A
Drilling template CEMBRE*	RD86X24	RD112X24

*see page 289, 327

9100.M25

CIRCULAR SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

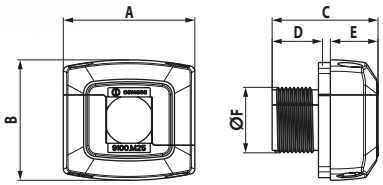
made of Reinforced thermoplastic polymer with fibreglass and overmoulded seal

EASY WIRE ORGANIZER



NEW · Thermoplastic Polymer · IP66 · V0 UL94 · -40°C +140°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · NEMA 12 · NEMA 4X · c UL us File no. E535849 *

Cable entry system dimensions



Metal plate perforation dimensions

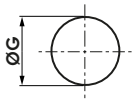


Diagram (grommets not included)



Marking/Approvals

RoHS COMPLIANT 2011/65/EU · CE · UK CA

Type	
Grey (RAL 7035)	**9100.M25**
Black (RAL 9005)	**9100.M25N**
Units in standard packaging	10
Units in minimum packaging	10
Dimensions and Weights	
A	50.0 mm
B	45.5 mm
C	40 mm
D	19 mm
E	18 mm
ØF	M25X1.5
ØG	25.4 mm
Weight	63 g
Material Specifications	
Frame material	Thermoplastic polymer + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x35) Class A2
Frame fastening nuts material	Stainless steel Class A2
Technical Specifications	
Silicon free	YES
Halogen free	YES
ISO 4892-2A	YES
ROHS compliant	YES
Self-extinguishing class (UL 94)	V0
Temperature range (static)	–40°C to +140°C
IP rating (EN 60529)	IP 66
Number of small grommets, type A	1
Number of large grommets, type B	-
Counter nut included	1143M25
Certifications	
NEMA performance	12, 4X
UL Standard	50E
UL file number	*Pending
Cable clamping according to EN 62444	YES
Accessories upon request	
Grommets	1 x type A
Drilling template CEMBRE**	RD25.4SS
Split bushing	9110.M25 ; 9110.M25N

**see page 289, 327

CIRCULAR SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

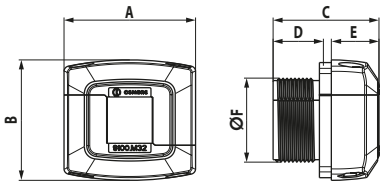
9100.M32

made of Reinforced thermoplastic polymer with fibreglass and overmoulded seal

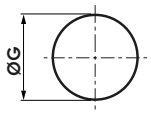
EWO® EASY WIRE ORGANIZER



Cable entry system dimensions



Metal plate perforation dimensions



NEW · Thermoplastic Polymer · IP66 · V0 UL94 · -40°C +140°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · NEMA 12 · NEMA 4X · c UL us File no. E535849 *

Diagram (grommets not included)



Marking/Approvals

RoHS COMPLIANT 2011/65/EU · CE · UK CA

Type	
Grey (RAL 7035)	**9100.M32**
Black (RAL 9005)	**9100.M32N**
Units in standard packaging	10
Units in minimum packaging	10
Dimensions and Weights	
A	50.0 mm
B	45.5 mm
C	40 mm
D	19 mm
E	18 mm
ØF	M32X1.5
ØG	32.5 mm
Weight	66 g
Material Specifications	
Frame material	Thermoplastic polymer + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x35) Class A2
Frame fastening nuts material	Stainless steel Class A2
Technical Specifications	
Silicon free	YES
Halogen free	YES
ISO 4892-2A	YES
ROHS compliant	YES
Self-extinguishing class (UL 94)	V0
Temperature range (static)	–40°C to +140°C
IP rating (EN 60529)	IP 66
Number of small grommets, type A	1
Number of large grommets, type B	-
Counter nut included	1143M32
Certifications	
NEMA performance	12, 4X
UL Standard	50E
UL file number	*Pending
Cable clamping according to EN 62444	YES
Accessories upon request	
Grommets	1 x type A
Drilling template CEMBRE**	RD32.5SS
Split bushing	9110.M32 ; 9110.M32N

**see page 289, 327

CEMBRE

9100.M50

CIRCULAR SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

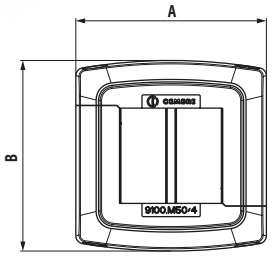
made of Reinforced thermoplastic polymer with fibreglass and overmoulded seal

EASY WIRE ORGANIZER



NEW · Thermoplastic Polymer · IP66 · V0 UL94 · -40°C +140°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · NEMA 12 · NEMA 4X · c UL us File no. E535849 *

Cable entry system dimensions



Metal plate perforation dimensions

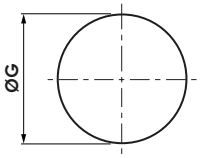


Diagram (grommets not included)





Marking/Approvals	RoHS COMPLIANT 2011/65/EU · CE · UK CA	RoHS COMPLIANT 2011/65/EU · CE · UK CA
Type		
Grey (RAL 7035)	**9100.M50/1**	**9100.M50/4**
Black (RAL 9005)	**9100.M50/1N**	**9100.M50/4N**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	72 mm	72 mm
B	72 mm	72 mm
C	40 mm	40 mm
D	19 mm	19 mm
E	18 mm	18 mm
ØF	M50X1.5	M50X1.5
ØG	50.5 mm	50.5 mm
Weight	118 g	120 g
Material Specifications		
Frame material	Thermoplastic polymer + GF	Thermoplastic polymer + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	-	4
Number of large grommets, type B	1	-
Counter nut included	1143M50	1143M50
Certifications		
NEMA performance	12, 4X	12, 4X
UL Standard	50E	50E
UL file number	*Pending	*Pending
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Grommets	1 x type B	4 x type A
Drilling template CEMBRE**	RD50.5SS	RD50.5SS
Split bushing	9110.M50 ; 9110.M50N	9110.M50 ; 9110.M50N

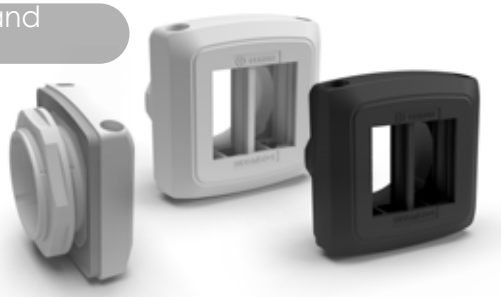
**see page 289, 327

CIRCULAR SPLIT CABLE ENTRY SYSTEMS FOR PREDETERMINED CABLES

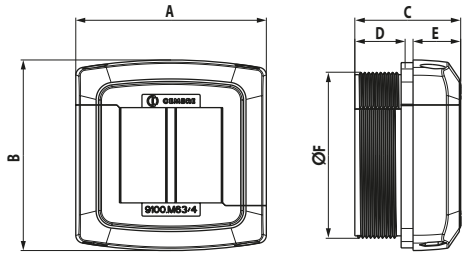
9100.M63

made of Reinforced thermoplastic polymer with fibreglass and overmoulded seal

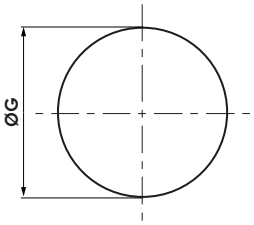
EWO® EASY WIRE ORGANIZER



Cable entry system dimensions



Metal plate perforation dimensions



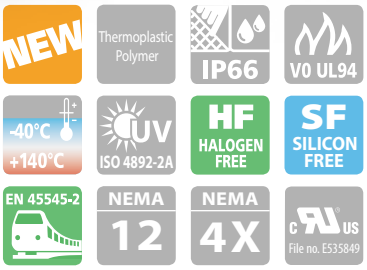


Diagram (grommets not included)		
Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type		
Grey (RAL 7035) ■	**9100.M63/1**	**9100.M63/4**
Black (RAL 9005) ■	**9100.M63/1N**	**9100.M63/4N**
Units in standard packaging	10	10
Units in minimum packaging	10	10
Dimensions and Weights		
A	72 mm	72 mm
B	72 mm	72 mm
C	40 mm	40 mm
D	19 mm	19 mm
E	18 mm	18 mm
ØF	M63X1.5	M63X1.5
ØG	64 mm	64 mm
Weight	126 g	128 g
Material Specifications		
Frame material	Thermoplastic polymer + GF	Thermoplastic polymer + GF
Light blue overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Frame fastening screws material	Stainless steel (M5x55) Class A2	Stainless steel (M5x55) Class A2
Frame fastening nuts material	Stainless steel Class A2	Stainless steel Class A2
Technical Specifications		
Silicon free	YES	YES
Halogen free	YES	YES
ISO 4892-2A	YES	YES
ROHS compliant	YES	YES
Self-extinguishing class (UL 94)	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66
Number of small grommets, type A	-	4
Number of large grommets, type B	1	-
Counter nut included	1143M63	1143M63
Certifications		
NEMA performance	12, 4X	12, 4X
UL Standard	50E	50E
UL file number	*Pending	*Pending
Cable clamping according to EN 62444	YES	YES
Accessories upon request		
Grommets	1 x type B	4 x type A
Drilling template CEMBRE**	RD64SS	RD64SS
Split bushing	9110.M63 ; 9110.M63N	9110.M63 ; 9110.M63N

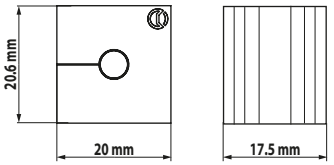
**see page 289, 327

9.A1D

GROMMETS FOR SPLIT CABLE ENTRY SYSTEMS

in Thermoplastic elastomer (TPE) - Type A small





EWO® EASY WIRE ORGANIZER

NEW · TPE ELASTOMER · IP66 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · NEMA 12 · NEMA 4X · cULus File no. E535849

RoHS COMPLIANT 2011/65/EU · CE · UK CA

Material: THERMOPLASTIC ELASTOMER (TPE)
self-extinguishing cl. V0 (UL 94)
Operating temperature range:
–40°C to +100°C (static)
Colour:
- grey RAL 7004
- black RAL 9005

Application range:
suitable for housing and clamping even pre-wired cables, ensuring that the system retains its **IP 66 (EN 60529) protection rating.**
To be inserted into the seats of the frames.

Certifications:
- NEMA performance: 12, 4X
- UL Standard: 50E
- UL file number: E535849
- Cable clamping according to EN 62444

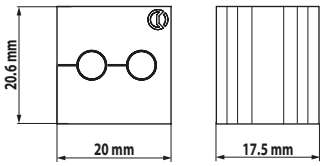
Diagram	Type A	Colour	No. Holes	Hole Position	Cable diameter mm	Weight g	*Standard/minimum* packaging
	**9.AD0**	Grey	0	-	-	7.0	*100/10*
	9.AD0N	Black	0	-	-	7.0	*100/10*
	**9.A1D1**	Grey	1	Central	1-2	7.0	*100/10*
	9.A1D1N	Black	1	Central	1-2	7.0	*100/10*
	9.A1D2	Grey	1	Central	2-3	6.9	*100/10*
	9.A1D2N	Black	1	Central	2-3	6.9	*100/10*
	**9.A1D3**	Grey	1	Central	3-4	6.9	*100/10*
	9.A1D3N	Black	1	Central	3-4	6.9	*100/10*
	9.A1D4	Grey	1	Central	4-5	6.8	*100/10*
	9.A1D4N	Black	1	Central	4-5	6.8	*100/10*
	**9.A1D5**	Grey	1	Central	5-6	6.6	*100/10*
	9.A1D5N	Black	1	Central	5-6	6.6	*100/10*
	9.A1D6	Grey	1	Central	6-7	6.4	*100/10*
	9.A1D6N	Black	1	Central	6-7	6.4	*100/10*
	**9.A1D7**	Grey	1	Central	7-8	6.2	*100/10*
	9.A1D7N	Black	1	Central	7-8	6.2	*100/10*
	9.A1D8	Grey	1	Central	8-9	6.0	*100/10*
	9.A1D8N	Black	1	Central	8-9	6.0	*100/10*
	**9.A1D9**	Grey	1	Central	9-10	5.8	*100/10*
	9.A1D9N	Black	1	Central	9-10	5.8	*100/10*
	9.A1D10	Grey	1	Central	10-11	5.5	*100/10*
	9.A1D10N	Black	1	Central	10-11	5.5	*100/10*
	**9.A1D11**	Grey	1	Central	11-12	5.2	*100/10*
	9.A1D11N	Black	1	Central	11-12	5.2	*100/10*
	9.A1D12	Grey	1	Central	12-13	4.8	*100/10*
	9.A1D12N	Black	1	Central	12-13	4.8	*100/10*
	**9.A1D13**	Grey	1	Central	13-14	4.4	*100/10*
	9.A1D13N	Black	1	Central	13-14	4.4	*100/10*
	9.A1D14	Grey	1	Central	14-15	4.0	*100/10*
	9.A1D14N	Black	1	Central	14-15	4.0	*100/10*
	**9.A1D15**	Grey	1	Central	15-16	3.6	*100/10*
	9.A1D15N	Black	1	Central	15-16	3.6	*100/10*
	9.A1D16	Grey	1	Central	16-16.5	3.4	*100/10*
	9.A1D16N	Black	1	Central	16-16.5	3.4	*100/10*
	**9.A1D17**	Grey	1	Central	16.5-17	3.2	*100/10*
	9.A1D17N	Black	1	Central	16.5-17	3.2	*100/10*

GROMMETS FOR SPLIT CABLE ENTRY SYSTEMS

9.A2D

in Thermoplastic elastomer (TPE) - Type A small

EWO® EASY WIRE ORGANIZER

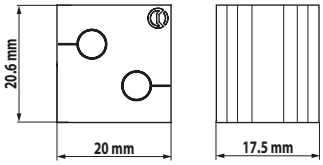




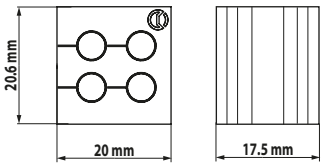
RoHS COMPLIANT 2011/65/EU CE UK CA

NEW | TPE ELASTOMER | IP66 | V0 UL94 | -40°C +100°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE | EN 45545-2 | NEMA 12 | NEMA 4X | c UL us File no. E535849

Diagram	Type A	Colour	No. Holes	Hole Position	Cable diameter mm	Weight g	*Standard/minimum packaging*
	**9.A2D2**	Grey	2	2 X Standard	2-3	6.9	*100/10*
	9.A2D2N	Black	2	2 X Standard	2-3	6.9	*100/10*
	9.A2D3	Grey	2	2 X Standard	3-4	6.7	*100/10*
	9.A2D3N	Black	2	2 X Standard	3-4	6.7	*100/10*
	**9.A2D4**	Grey	2	2 X Standard	4-5	6.5	*100/10*
	9.A2D4N	Black	2	2 X Standard	4-5	6.5	*100/10*
	9.A2D5	Grey	2	2 X Standard	5-6	6.2	*100/10*
	9.A2D5N	Black	2	2 X Standard	5-6	6.2	*100/10*
	**9.A2D6**	Grey	2	2 X Standard	6-7	5.9	*100/10*
	9.A2D6N	Black	2	2 X Standard	6-7	5.9	*100/10*



	**9.A2D7**	Grey	2	2 X Oblique	7-8	5.5	*100/10*
	9.A2D7N	Black	2	2 X Oblique	7-8	5.5	*100/10*
	9.A2D8	Grey	2	2 X Oblique	8-9	5.0	*100/10*
	9.A2D8N	Black	2	2 X Oblique	8-9	5.0	*100/10*



	**9.A4D2**	Grey	4	4 X Standard	2-3	6.7	*100/10*
	9.A4D2N	Black	4	4 X Standard	2-3	6.7	*100/10*
	9.A4D3	Grey	4	4 X Standard	3-4	6.4	*100/10*
	9.A4D3N	Black	4	4 X Standard	3-4	6.4	*100/10*
	**9.A4D4**	Grey	4	4 X Standard	4-5	6.0	*100/10*
	9.A4D4N	Black	4	4 X Standard	4-5	6.0	*100/10*
	9.A4D5	Grey	4	4 X Standard	5-6	5.4	*100/10*
	9.A4D5N	Black	4	4 X Standard	5-6	5.4	*100/10*
	**9.A4D6**	Grey	4	4 X Standard	6-7	4.7	*100/10*
	9.A4D6N	Black	4	4 X Standard	6-7	4.7	*100/10*

Material: THERMOPLASTIC ELASTOMER (TPE)
self-extinguishing cl. V0 (UL 94)
Operating temperature range: –40°C to +100°C (static)
Colour:
- grey RAL 7004
- black RAL 9005

Application range:
suitable for housing and clamping even pre-wired cables, ensuring that the system retains its **IP 66 (EN 60529) protection rating.**
To be inserted into the seats of the frames.

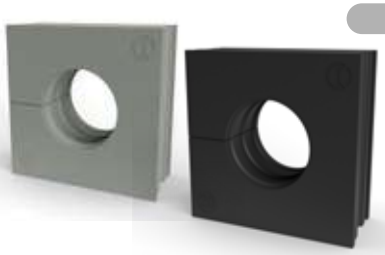
Certifications:
- NEMA performance: 12, 4X
- UL Standard: 50E
- UL file number: E535849
- Cable clamping according to EN 62444

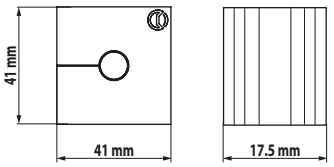
CEMBRE

9.B1D

GROMMETS FOR SPLIT CABLE ENTRY SYSTEMS

in Thermoplastic elastomer (TPE) - Type B large





EWO® EASY WIRE ORGANIZER

NEW · TPE ELASTOMER · IP66 · V0 UL94 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE · EN 45545-2 · NEMA 12 · NEMA 4X · c UL us File no. E535849

RoHS COMPLIANT 2011/65/EU · CE · UK CA

Material: THERMOPLASTIC ELASTOMER (TPE)
self-extinguishing cl. V0 (UL 94)
Operating temperature range:
–40°C to +100°C (static)
Colour:
- grey RAL 7004
- black RAL 9005

Application range:
suitable for housing and clamping even pre-wired cables, ensuring that the system retains its **IP 66 (EN 60529) protection rating.**
To be inserted into the seats of the frames.

Certifications:
- NEMA performance: 12, 4X
- UL Standard: 50E
- UL file number: E535849
- Cable clamping according to EN 62444

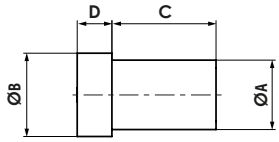
Diagram	Type B	Colour	No. Holes	Hole Position	Cable diameter mm	Weight g	*Standard/minimum packaging*
	**9.BD0**	Grey	0	-	-	30	*30/10*
	9.BD0N	Black	0	-	-	30	*30/10*
	**9.B1D16**	Grey	1	Central	16-17	26	*30/10*
	9.B1D16N	Black	1	Central	16-17	26	*30/10*
	9.B1D17	Grey	1	Central	17-18	25	*30/10*
	9.B1D17N	Black	1	Central	17-18	25	*30/10*
	**9.B1D18**	Grey	1	Central	18-19	25	*30/10*
	9.B1D18N	Black	1	Central	18-19	25	*30/10*
	9.B1D19	Grey	1	Central	19-20	24	*30/10*
	9.B1D19N	Black	1	Central	19-20	24	*30/10*
	**9.B1D20**	Grey	1	Central	20-21	24	*30/10*
	9.B1D20N	Black	1	Central	20-21	24	*30/10*
	9.B1D21	Grey	1	Central	21-22	23	*30/10*
	9.B1D21N	Black	1	Central	21-22	23	*30/10*
	**9.B1D22**	Grey	1	Central	22-23	22	*30/10*
	9.B1D22N	Black	1	Central	22-23	22	*30/10*
	9.B1D23	Grey	1	Central	23-24	22	*30/10*
	9.B1D23N	Black	1	Central	23-24	22	*30/10*
	**9.B1D24**	Grey	1	Central	24-25	21	*30/10*
	9.B1D24N	Black	1	Central	24-25	21	*30/10*
	9.B1D25	Grey	1	Central	25-26	20	*30/10*
	9.B1D25N	Black	1	Central	25-26	20	*30/10*
	**9.B1D26**	Grey	1	Central	26-27	20	*30/10*
	9.B1D26N	Black	1	Central	26-27	20	*30/10*
	9.B1D27	Grey	1	Central	27-28	19	*30/10*
	9.B1D27N	Black	1	Central	27-28	19	*30/10*
	**9.B1D28**	Grey	1	Central	28-29	18	*30/10*
	9.B1D28N	Black	1	Central	28-29	18	*30/10*
	9.B1D29	Grey	1	Central	29-30	17	*30/10*
	9.B1D29N	Black	1	Central	29-30	17	*30/10*
	**9.B1D30**	Grey	1	Central	30-31	16	*30/10*
	9.B1D30N	Black	1	Central	30-31	16	*30/10*
	9.B1D31	Grey	1	Central	31-32	15	*30/10*
	9.B1D31N	Black	1	Central	31-32	15	*30/10*
	**9.B1D32**	Grey	1	Central	32-33	14	*30/10*
	9.B1D32N	Black	1	Central	32-33	14	*30/10*
	9.B1D33	Grey	1	Central	33-34	13	*30/10*
	9.B1D33N	Black	1	Central	33-34	13	*30/10*
	**9.B1D34**	Grey	1	Central	34-35	12	*30/10*
	9.B1D34N	Black	1	Central	34-35	12	*30/10*

BLINDPLUGS

in Polyamide PA6.6

9005.D

EWO® EASY WIRE ORGANIZER





NEW · PA 6.6 · IP66 · V0 UL94 · -40°C +100°C

Type	Colour	ØA mm	ØB mm	C mm	D mm	Standard/minimum packaging
9005.D2	White	2	4	20	5	250/25
9005.D3	White	3	5	20	5	250/25
9005.D4	White	4	6	20	5	250/25
9005.D5	White	5	7	20	5	250/25
9005.D6	White	6	8	20	5	250/25
9005.D7	White	7	9	20	5	250/25
9005.D8	White	8	10	15	5	250/25
9005.D9	White	9	11	15	5	250/25
9005.D10	White	10	12	15	5	250/25
9005.D11	White	11	13	15	5	250/25
9005.D12	White	12	14	15	5	250/25
9005.D13	White	13	15	15	5	250/25
9005.D14	White	14	16	15	5	250/25
9005.D15	White	15	17	15	5	250/25
9005.D16	White	16	18	15	5	250/25
9005.D17	White	17	19	15	5	250/25

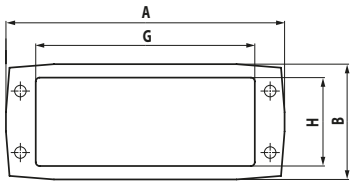
Material: POLYAMIDE PA6.6
Operating temperature range:
–40°C to +100°C (static)
Colour: White

Application range:
suitable for closing unused grommet holes, ensuring that the system retains its **IP 66 (EN 60529) protection rating.**

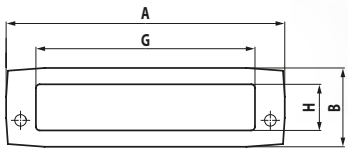
RECTANGULAR FLAT SEALS

in Nitrile butadiene NBR 70 sh

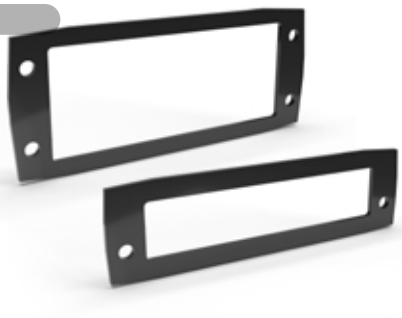
9006



4 holes



2 holes



NEW · NBR · IP66 · -30°C +100°C

Type	For Cable Entry system Type	Holes	Colour	A mm	B mm	G mm	H mm	Standard/minimum packaging
9006.Q	9000.Q	4	Black	72	60	45	45	100/10
9006.10	9000.10	4	Black	98	60	67	46	100/10
9006.16	9000.16	4	Black	118	60	88	46	100/10
9006.24	9000.24	4	Black	145	60	114	46	100/10
9006.R/2	9000.R/2	2	Black	72	41	45	24	100/10
9006.R/3	9000.R/3	2	Black	98	41	67	24	100/10
9006.R/4	9000.R/4	2	Black	118	41	88	24	100/10
9006.R/5	9000.R/5	2	Black	145	41	114	24	100/10

Material:
NITRILE BUTADIENE NBR 70 sh
Operating temperature range:
from –30°C to +100°C
Colour: black

Application range:
suitable for maintaining **IP 66 (EN 60529) protection rating on uneven walls.**

CEMBRE

9020

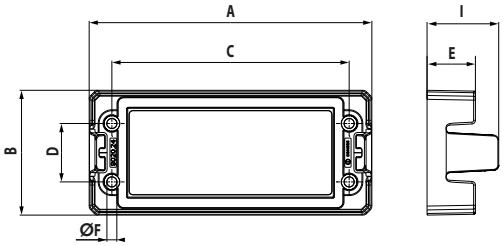
PUSH-FIT MOUNTS

in Polyamide PA6.6

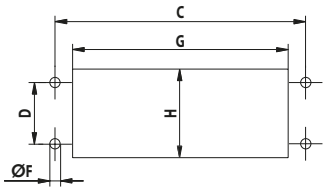


NEW | PA 6.6 | IP54 | V0 UL94 | -40°C +140°C | UV ISO 4892-2A | HF HALOGEN FREE | SF SILICON FREE

Dimensions of push-fit mounts



Metal plate perforation dimensions



Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA	RoHS COMPLIANT 2011/65/EU CE UK CA
Type				
Black (RAL 9005) ■	**9020.Q**	**9020.10**	**9020.16**	**9020.24**
Units in standard packaging	10	10	10	10
Units in minimum packaging	10	10	10	10
Dimensions and Weights				
A	83 mm	107 mm	128 mm	155 mm
B	68 mm	68 mm	68 mm	68 mm
C	58 mm	83 mm	103 mm	130 mm
D	32 mm	32 mm	32 mm	32 mm
E	26.5 mm	26.5 mm	26.5 mm	26.5 mm
ØF	5.5 mm	5.5 mm	5.5 mm	5.5 mm
G	43 mm	65 mm	86 mm	112 mm
H	43 mm	36/46 mm	36/46 mm	36/46 mm
I	39.3 mm	39.3 mm	39.3 mm	39.3 mm
Weight	60 g	72 g	80 g	91 g
Material Specifications				
Frame material	PA6.6 + GF	PA6.6 + GF	PA6.6 + GF	PA6.6 + GF
Integrated sale material	Nitrile butadiene NBR 70 sh	Nitrile butadiene NBR 70 sh	Nitrile butadiene NBR 70 sh	Nitrile butadiene NBR 70 sh
Technical Specifications				
Silicon free	YES	YES	YES	YES
Halogen free	YES	YES	YES	YES
ISO 4892-2A	YES	YES	YES	YES
ROHS compliant	YES	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 54	IP 54	IP 54	IP 54
Accessories upon request				
Stainless steel screws for wall attachment	9001.M5X20	9001.M5X20	9001.M5X20	9001.M5X20
Drilling template CEMBRE*	RD43X43	RD46X65 ; RD36X65	RD46X86 ; RD36X86	RD46X112 ; RD36X112

*see page 289, 327

CLOSING PLATES

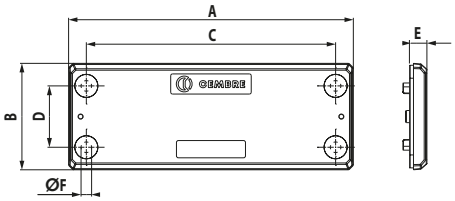
9010

made of glass-fibre reinforced Polypropylene

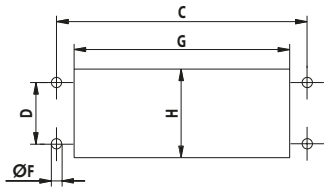
EWO® EASY WIRE ORGANIZER



Dimensions of closing plates



Metal plate perforation dimensions



NEW · PP · IP66 · V0 UL94 · -40°C +140°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE

Marking/Approvals	RoHS COMPLIANT 2011/65/EU CE UKCA	RoHS COMPLIANT 2011/65/EU CE UKCA	RoHS COMPLIANT 2011/65/EU CE UKCA	RoHS COMPLIANT 2011/65/EU CE UKCA
Type				
Black (RAL 9005) ■	**9010.Q**	**9010.10**	**9010.16**	**9010.24**
Units in standard packaging	10	10	10	10
Units in minimum packaging	10	10	10	10
Dimensions and Weights				
A	76.5 mm	101.5 mm	121.5 mm	148.5 mm
B	55.5 mm	55.5 mm	55.5 mm	55.5 mm
C	58 mm	83 mm	103 mm	130 mm
D	32 mm	32 mm	32 mm	32 mm
E	7 mm	7 mm	7 mm	7 mm
ØF	5.5 mm	5.5 mm	5.5 mm	5.5 mm
G	43 mm	65 mm	86 mm	112 mm
H	43 mm	36/46 mm	36/46 mm	36/46 mm
Weight	27 g	34 g	40 g	48 g
Material Specifications				
Frame material	PP + GF	PP + GF	PP + GF	PP + GF
Black overmoulded seal material	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)	Thermoplastic elastomer (TPE)
Technical Specifications				
Silicon free	YES	YES	YES	YES
Halogen free	YES	YES	YES	YES
ISO 4892-2A	YES	YES	YES	YES
ROHS compliant	YES	YES	YES	YES
Self-extinguishing class (UL 94)	V0	V0	V0	V0
Temperature range (static)	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C	–40°C to +140°C
IP rating (EN 60529)	IP 66	IP 66	IP 66	IP 66
Accessories upon request				
Stainless steel screws for wall attachment	9001.M5X20	9001.M5X20	9001.M5X20	9001.M5X20
Drilling template CEMBRE*	RD43X43	RD46X65 ; RD36X65	RD46X86 ; RD36X86	RD46X112 ; RD36X112

*see page 289, 327

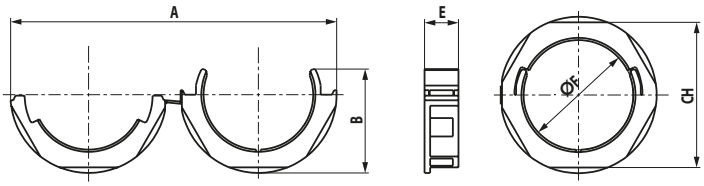
9110

SPLIT BUSHING FOR CIRCULAR SPLIT CABLE ENTRY SYSTEMS

in Polyamide PA6

EWO EASY WIRE ORGANIZER





NEW · PA 6 · -40°C +100°C · UV ISO 4892-2A · HF HALOGEN FREE · SF SILICON FREE

Type	Colour	ØF mm	A mm	B mm	E mm	CH mm	Weight g	*Standard/minimum* packaging
9110.M25	Grey	M25x1.5	74	23	9	32	3	*100/10*
9110.M25N	Black	M25x1.5	74	23	9	32	3	*100/10*
9110.M32	Grey	M32x1.5	92	29	12	40	6	*50/10*
9110.M32N	Black	M32x1.5	92	29	12	40	6	*50/10*
9110.M50	Grey	M50x1.5	144	46	15	64	18	*20/10*
9110.M50N	Black	M50x1.5	144	46	15	64	18	*20/10*

MECHANICAL AND PNEUMATIC TOOLS



SYMBOL DESCRIPTION

professional mechanical tools - hydraulic bench press



Can be operated with one hand



Manual pressure release button



Ergonomically designed with a sculptured body for operator comfort



Lightweight and balanced for greater control



Dual-compound plastic handles
Greater safety and comfort in handling, thanks to the rubber inserts



Durable moulded body offering high resistance to wear and damage in all operating conditions



Extremely quiet in operation



Protected against accidental intrusions



Max cutting section



Max cutting diameter



High hardness blades



Stainless steel blades



High tensile steel blades



Micro-serrated blades for anti-slip purpose



Special Steel frame for high resistance and a long life

SYMBOL DESCRIPTION

professional mechanical tools - hydraulic bench press

HEXAGONAL — Hexagonal crimp

RADIAL — Radial crimp

INDENT — Indent crimp

INDENT — Indent crimp

W INDENT — W crimp

OVAL — Oval crimp

TRAPEZIUM — Trapezium crimp

RHOMBUS — Rhomboidal crimp

SQUARE — Square crimp

CE marking

UKCA marking



CEMBRE

CRIMPSTAR®

Manual tool, compact and easy to use, equipped with:
- treated steel crimp jaws with high mechanical properties.
- factory-set ratchet for crimping control (automatic handle opening upon completion of crimping operation).
- Emergency release lever which, if necessary, opens the crimp jaws before their complete closure.
- Ergonomically designed non-slip moulded plastic grips.

HP1

MECHANICAL TOOLS CRIMPSTAR® RANGE

for insulated terminals and connectors

Crimpstar®



c UL us File no. E125401

The tool HP1 provide cUL® and UL® certified compression when used with CEMBRE VP.



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · RADIAL



TECHNICAL FEATURES:

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 0,2 to 2,5 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*512*
Package Dimensions	*240 x 81 x 25*

HP5

MECHANICAL TOOLS CRIMPSTAR® RANGE

for insulated terminals and connectors

CLASSIFIED c UL us E530816

Crimpstar®



c UL us File no. E125401

c UL us File no. E212000

The tool HP5 provide cUL® and UL® certified compression when used with CEMBRE RF, BF, GF, RF-F/M/FM, BF-F/M/FM, GF-F/M, RP, BP, GP, PL.



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · RADIAL



TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 0,5 to 6 sqmm (for both right and left handed operators)*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*498*
Package Dimensions	*240 x 81 x 25*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HP3

for insulated terminals and connectors

Crimpstar®





TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 0,25 to 6 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*498*
Package Dimensions	*240 x 81 x 25*



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · RADIAL

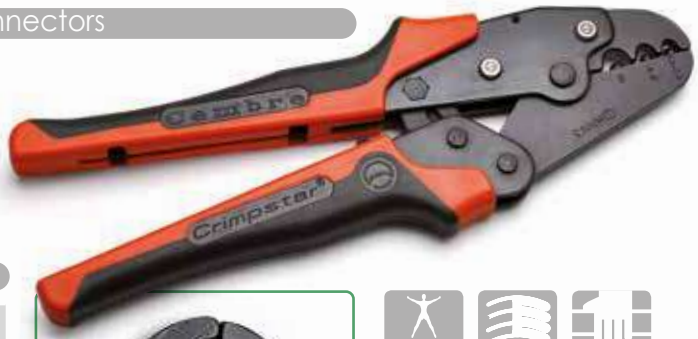
MECHANICAL TOOLS CRIMPSTAR® RANGE

HNN3

for insulated terminals and connectors

Crimpstar®





TECHNICAL FEATURES

Crimping Range	*PA6.6 insulated terminals and connectors for conductor sizes 1,5 to 10 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*491*
Package Dimensions	*240 x 81 x 25*



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT

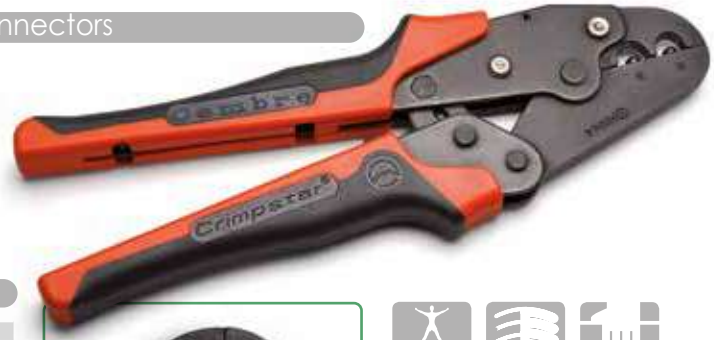
MECHANICAL TOOLS CRIMPSTAR® RANGE

HNN4

for insulated terminals and connectors

Crimpstar®





TECHNICAL FEATURES

Crimping Range	*PA6.6 insulated terminals and connectors for conductor sizes 10 and 16 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*492*
Package Dimensions	*240 x 81 x 25*



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT

HPH1

MECHANICAL TOOLS CRIMPSTAR® RANGE

for through connectors PE HD insulated, heat shrinkable



Crimpstar®



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · RADIAL



TECHNICAL FEATURES

Crimping Range	*Through connectors PE HD insulated, heat shrinkable. for conductor sizes 0,5 to 6 sqmm and PA6.6 connectors NL-M, NL-P for conductor sizes 0,25 to 6 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*512*
Package Dimensions	*240 x 81 x 25*

HNKE4

MECHANICAL TOOLS CRIMPSTAR® RANGE

for end sleeves



Crimpstar®



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · TRAPEZIUM



TECHNICAL FEATURES

Crimping Range	*End sleeves for conductor sizes 0,5 to 4 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*498*
Package Dimensions	*240 x 81 x 25*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HNKE16

for end sleeves

Crimpstar®





TECHNICAL FEATURES

Crimping Range	*End sleeves for conductor sizes 4 to 16 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*491*
Package Dimensions	*240 x 81 x 25*



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · TRAPEZIUM

MECHANICAL TOOLS CRIMPSTAR® RANGE

HNKE50

for end sleeves

Crimpstar®





TECHNICAL FEATURES

Crimping Range	*End sleeves for conductor sizes 25 - 35 - 50 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*590*
Package Dimensions	*240 x 81 x 25*



ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · TRAPEZIUM

HN1

MECHANICAL TOOLS CRIMPSTAR® RANGE

for uninsulated terminals and connectors

Crimpstar®





ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors for conductor sizes 0,25 to 10 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*480*
Package Dimensions	*240 x 81 x 25*

HN5

MECHANICAL TOOLS CRIMPSTAR® RANGE

for uninsulated terminals and connectors

Crimpstar®





ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors for conductor sizes 10 and 16 sqmm*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*489*
Package Dimensions	*240 x 81 x 25*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HN-A25

for uninsulated terminals and connectors A-M, L-M and L-P series

Crimpstar®







HN-D25

for Cu tube lugs DR (DIN 46235) and through connectors DSV (DIN 46267)

Crimpstar®







HN-H25

for Cu tube lugs HR and through connectors HSV

Crimpstar®







HN-T25

for Cu tube lugs T-M, T-L and through connectors L-T

Crimpstar®







HN-A25 TECHNICAL FEATURES:

Crimping Range	*Uninsulated terminals and connectors A-M, L-M and L-P series for conductor sizes 10 to 25 sqmm*

HN-D25 TECHNICAL FEATURES:

Crimping Range	*Cu tube lugs DR (DIN 46235) and through connectors DSV (DIN 46267) for conductor sizes 10 to 25 sqmm*

HN-H25 TECHNICAL FEATURES:

Crimping Range	*Cu tube lugs HR and through connectors HSV for conductor sizes 10 to 25 sqmm*

HN-T25 TECHNICAL FEATURES:

Crimping Range	*Cu tube lugs T-M, T-L and through connectors L-T for conductor sizes 10 to 25 sqmm*



Dimensions mm	
Length	*230*
Width	*78*
Height	*19*
Weight g	*500*
Package Dimensions	*240 x 81 x 25*

CEMBRE

HF1

MECHANICAL TOOLS CRIMPSTAR® RANGE

for open barrel brass terminals

Crimpstar®





ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT



TECHNICAL FEATURES

Crimping Range	*Open barrel brass terminals for conductors sizes 0,5 to 4 sqmm (not BN-FAB/FAR type)*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*509*
Package Dimensions	*240 x 81 x 25*

HF2

MECHANICAL TOOLS CRIMPSTAR® RANGE

for open barrel brass terminals

Crimpstar®





ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE · INDENT



TECHNICAL FEATURES

Crimping Range	*Open barrel brass terminals for conductors sizes 0,08 to 1,3 sqmm (28 to 16 AWG)*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*497*
Package Dimensions	*240 x 81 x 25*

MECHANICAL TOOLS CRIMPSTAR® RANGE

HX1

for coaxial connectors

Crimpstar®





TECHNICAL FEATURES

Crimping Range	*Coaxial connectors type RG58, RG59, RG62 and RG 71*
Dimensions mm	
Length	*235*
Width	*78*
Height	*19*
Weight g	*481*
Package Dimensions	*240 x 81 x 25*



ERGONOMIC
BI-COMPONENT
ONE HAND
MANUAL RELEASE
BALANCED
DURABLE
HEXAGONAL

CEMBRE

ERGONOMIC · BI-COMPONENT · ONE HAND · MANUAL RELEASE · BALANCED · DURABLE

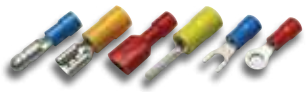


MLRJ1



TECHNICAL FEATURES

Crimping Range	*For crimping plugs RJ 11; RJ 12; RJ 14; RJ 22; RJ 45. With cutting and wire-stripping blades*
Dimensions mm	
Length	*211*
Width	*75*
Height	*23*
Weight g	*526*



MLL1

RADIAL



TECHNICAL FEATURES

Crimping Range	*For crimping insulated terminals, 0,25 to 6 sqmm side insertion*
Dimensions mm	
Length	*252*
Width	*78*
Height	*23*
Weight g	*556*



MLL90

INDENT



TECHNICAL FEATURES

Crimping Range	*Single aperture, ratchet controlled tool for crimping female connectors, open barrel, flag type 1 to 2,5 sqmm - side insertion*
Dimensions mm	
Length	*252*
Width	*78*
Height	*23*
Weight g	*558*

ML

ERGONOMIC · ONE HAND · BALANCED · DURABLE



MLS1

TRAPEZIUM



TECHNICAL FEATURES

Crimping Range	*For crimping end sleeves 0,25 to 6 sqmm*
Dimensions mm	
Length	*198*
Width	*77*
Height	*18*
Weight g	*350*



MLS2

W INDENT



TECHNICAL FEATURES

Crimping Range	*For crimping end sleeves 6 to 16 sqmm*
Dimensions mm	
Length	*198*
Width	*77*
Height	*18*
Weight g	*350*

ZP2



TECHNICAL FEATURES

Crimping Range	*For crimping insulated and uninsulated connectors, 0,25 to 6 sqmm*
Dimensions mm	
Length	*234*
Width	*65*
Height	*15*
Weight g	*228*

ND

MECHANICAL TOOLS ND® RANGE

for insulated and uninsulated end sleeves

ERGONOMIC · ONE HAND · BALANCED · DURABLE · TRAPEZIUM

A generation of tools, with a unique mechanism to reduce operator effort. Small and compact, with ergonomically designed handles for ease of operation.

High quality materials combined with advanced design and manufacturing technology, produce a reliable tool with a guaranteed consistent, crimping operation.

nd®

ND1





TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 0,3 to 1,5 sqmm*
Dimensions mm	
Length	*190*
Width	*72*
Height	*21*
Weight g	*470*

ND2





TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 1 to 6 sqmm*
Dimensions mm	
Length	*190*
Width	*72*
Height	*21*
Weight g	*470*

ND3





TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 6 to 16 sqmm*
Dimensions mm	
Length	*190*
Width	*72*
Height	*21*
Weight g	*470*

ND4





TECHNICAL FEATURES

Crimping Range	*Insulated and uninsulated end sleeves for conductors sizes 0,5 to 4 sqmm*
Dimensions mm	
Length	*190*
Width	*72*
Height	*21*
Weight g	*470*

Package Dimensions mm	*195 x 76 x 20*

MECHANICAL TOOLS ZKE RANGE

ZKE

for insulated and uninsulated end sleeves

UL CERTIFIED SAFETY US-CA E481745

The ZKE610N and ZKE616N pliers provide cUL® and UL® certified compression when used with CEMBRE PKE, PKC, PKD and PKT end sleeves.

ERGONOMIC · ONE HAND · BALANCED · DURABLE



ZKE610N

CLASSIFIED C UL US E530816

SQUARE



TECHNICAL FEATURES

Crimping Range	*Single aperture, ratchet controlled tool for crimping end sleeves, 0,1 to 10 sqmm side insertion*
Dimensions mm	
Length	*184*
Width	*80*
Height	*26*
Weight g	*375*



ZKE616N

CLASSIFIED C UL US E530816

SQUARE



TECHNICAL FEATURES

Crimping Range	*Single aperture, ratchet controlled tool for crimping end sleeves, 0,1 to 16 sqmm side insertion*
Dimensions mm	
Length	*184*
Width	*80*
Height	*30,5*
Weight g	*380*



ZKE2

INDENT



TECHNICAL FEATURES

Crimping Range	*For end sleeves 0,5 to 16 sqmm*
Dimensions mm	
Length	*190*
Width	*62*
Height	*11*
Weight g	*240*

HP4-R

MECHANICAL TOOLS HP4 RANGE

for insulated terminals and connectors



The tool HP4-R provide cUL® and UL® certified compression when used with CEMBRE RF, RF-F/M/FM, RP, PL03-M.



ERGONOMIC · ONE HAND · BALANCED · DURABLE · RADIAL



TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 0,25 to 1,5 sqmm*
Dimensions mm	
Length	*265*
Width	*80*
Height	*24*
Weight g	*500*
Package Dimensions	*330 x 110 x 50 mm*

Professional manual mechanical tool with ratchet mechanism that prevents the handles from opening again before reaching the ratchet. Equipped with a positioning device to reduce the operator's effort and facilitate proper crimping of the conductor.

According to the different thicknesses of the conductor insulation, the crimping on the insulation can be carried out by adjusting the jaws through three different settings:
1) strong, 2) medium, 3) light.
The tool is particularly easy to use thanks to its shape and handle coating.
At the end of the crimping the outer surface of the conductor is automatically stamped with the following crimping code:
one point for red conductor sizes from 0.25 to 1.5 mm^2

Construction features:
- Special treated and externally protected steel body, ratchet and handles.
- Handle coating in soft red PVC plastic.

HP4-B

MECHANICAL TOOLS HP4 RANGE

for insulated terminals and connectors



The tool HP4-B provide cUL® and UL® certified compression when used with CEMBRE BF, BF-F/M/FM, BP, PL06-M.



ERGONOMIC · ONE HAND · BALANCED · DURABLE · RADIAL



TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 1,5 to 2,5 sqmm*
Dimensions mm	
Length	*265*
Width	*80*
Height	*24*
Weight g	*500*
Package Dimensions	*330 x 110 x 50 mm*

Professional manual mechanical tool with ratchet mechanism that prevents the handles from opening again before reaching the ratchet. Equipped with a positioning device to reduce the operator's effort and facilitate proper crimping of the conductor.

According to the different thicknesses of the conductor insulation, the crimping on the insulation can be carried out by adjusting the jaws through three different settings:
1) strong, 2) medium, 3) light.
The tool is particularly easy to use thanks to its shape and handle coating.
At the end of the crimping the outer surface of the conductor is automatically stamped with the following crimping code:
two points for blue conductor sizes from 1.5 to 2.5 mm^2

Construction features:
- Special treated and externally protected steel body, ratchet and handles.
- Handle coating in soft blue PVC plastic.

MECHANICAL TOOLS HP4 RANGE

HP4-G

for insulated terminals and connectors

File no. E125401

File no. E212000

The tool HP4-G provide cUL® and UL® certified compression when used with CEMBRE GF, GF-F/M/FM, GP, PL1-M.





TECHNICAL FEATURES

Crimping Range	*PVC, PC and PA6.6 insulated terminals and connectors for conductor sizes 4 to 6 sqmm*
Dimensions mm	
Length	*320*
Width	*105*
Height	*25*
Weight g	*810*
Package Dimensions	*330 x 110 x 50 mm*



ERGONOMIC ONE HAND BALANCED DURABLE RADIAL

Professional manual mechanical tool with ratchet mechanism that prevents the handles from opening again before reaching the ratchet. Equipped with a positioning device to reduce the operator's effort and facilitate proper crimping of the conductor.

According to the different thicknesses of the conductor insulation, the crimping on the insulation can be carried out by adjusting the jaws through three different settings:
1) strong, 2) medium, 3) light.
The tool is particularly easy to use thanks to its shape and handle coating.

At the end of the crimping the outer surface of the conductor is automatically stamped with the following crimping code:
three points for yellow conductor from 4 to 6 sqmm

Construction features:
- Special treated and externally protected steel body, ratchet and handles.
- Handle coating in soft yellow PVC plastic.

MECHANICAL TOOLS HP4 RANGE

HP4-C10

for sleeve connectors





TECHNICAL FEATURES

Crimping Range	*For sleeve connectors type C6-C6 and C10-C10*
Dimensions mm	
Length	*325*
Width	*105*
Height	*21*
Weight g	*730*
Package Dimensions	*330 x 110 x 50 mm*



ERGONOMIC ONE HAND BALANCED DURABLE OVAL

Professional manual mechanical tool with ratchet mechanism that prevents the handles from opening again before reaching the ratchet. The tool is particularly easy to use thanks to its shape and handle coating.

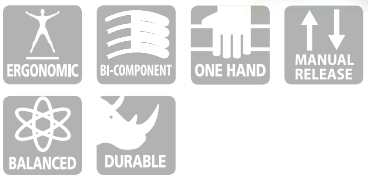
Construction features:
- Special treated and externally protected steel body, ratchet and handles.
- Handle coating in soft yellow PVC plastic.

HWE1N

MECHANICAL TOOL HWE1N

with interchangeable dies







TECHNICAL FEATURES

Dimensions mm	
Length	240
Width	79
Height	32,5
Weight g	590

A robust and reliable tool designed to optimise the installers time and effort. A single tool body with a range of interchangeable dies allows a quick and simple transfer from one cable/connector combination to another, across a range of applications.

N.B .: the tool is supplied without dies, for their choice consult the table on the side.

TECHNICAL FEATURES:

- Automatic opening of handles following completion of the crimping operation
- Dull Nickel finish
- Anti-slip handle grips

KIT AVAILABLE ON REQUEST



NEW

VALSTAR-N5
comprising:

- **HWE1N** Manual mechanical tool
- **KE16-WE** die
- **RBY-WE**
- all contained in a sturdy plastic case with extra compartments for interchangeable dies

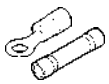


NEW

VALSTAR-N6
comprising:

- **HWE1N** Manual mechanical tool
- **HB11** wire stripper
- **MC4-WE** die
- all contained in a sturdy plastic case with extra compartments for interchangeable dies

INTERCHANGEABLE DIES TO ORDER SEPARATELY



INSULATED CONNECTORS RED, BLUE AND YELLOW

RBY-WE
Size 0,5 to 6 mm²

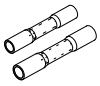


INSULATED AND UNINSULATED END SLEEVES

KE6-WE
Size 0,5 to 6 mm²

KE16-WE
Size 0,5 to 16 mm²

KE35-WE
Size 16 to 35 mm²



CONNECTORS WITH HEAT SHRINKABLE INSULATION

WLM-WE
Size 0,5 to 6 mm²



UNINSULATED CABLE LUGS

N10-WE
Size 0,5 to 10 mm²



OPEN BARREL BRASS CONNECTORS

F050-WE
Size 0,08 and 0,5 mm²

F075-WE
Size 0,05 and 0,75 mm²

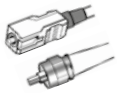
F2.5-WE
Size 0,5 and 2,5 mm²



PHOTOVOLTAIC CONNECTORS (MULTI-CONTACT)

MC3-WE
Size 4 to 6 mm²

MC4-WE
Size 4 to 6 mm²



FIBER OPTIC CONNECTOR

ST-WE
SMA, SMB, SFR, ST, SC

SMA-WE
SMA

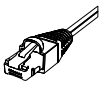


COAXIAL CONNECTORS

RG71-WE
RG58, RG59, RG62

RG174-WE
RG58, RG174

RG179-WE
RG174, RG179



SHIELDED WE CONNECTOR

RJ45-WE
RJ45

MECHANICAL TOOL IDT

with modular interchangeable dies

Dies for photovoltaic connectors



4300-3541
Tyco Solarlok

4300-3539
MC4 Multi Contact

4300-3540
MC3 Multi Contact



ERGONOMIC · ONE HAND · BALANCED · DURABLE

A robust and reliable tool designed to optimise the installers time and effort.
A single tool body with a range of interchangeable dies allows a quick and simple transfer from one cable/connector combination to another, across a wide range of applications.
Modular dies may be inserted/extracted without using any tools and are connected in pairs for speed and convenience.
To assist correct die selection, the type of connector is illustrated on each die.
Each die also carries an illustration of the steps in each crimping process, to assist in achieving the best result.







TECHNICAL FEATURES

Dimensions mm	
Length	*234*
Width	*64*
Height	*24*
Weight g	*460*

INTERCHANGEABLE DIES TO ORDER SEPARATELY

INSULATED CONNECTORS RED, BLUE, YELLOW and GREEN

4300-3129	***4300-3128***
Size 0,5 ÷ 2,5 mm² (Red - Blue)	*Size 4 ÷ 6 mm² (Yellow)* *Size 0,1 ÷ 0,4 mm² (Green)*

CONNECTORS WITH HEAT SHRINKABLE INSULATION

4300-3258	***4300-3262***
Size 0,5 ÷ 2,5 mm² (Red - Blue)	*Size 4 ÷ 6 mm² (Yellow)* *Size 0,32 ÷ 0,75 mm² (Green)*

UNINSULATED CONNECTORS

4300-3137	***4300-3241***
Size 0,75 ÷ 2,5 mm²	*Size 4 ÷ 10 mm²*

CONTACTS FOR MULTI POLAR CONNECTORS (eg. ILME, HTS, CONTACT)

4300-3147	***4300-3148***
Size 0,14 ÷ 4 mm²	*Size 6 ÷ 10 mm²*

INSULATED AND UNINSULATED END SLEEVES

4300-3127	***4300-3153***	***4300-3154***
Size 0,25 ÷ 10 mm²	*Size 16 ÷ 25 mm²*	*Size 35 ÷ 50 mm²*

OPEN BARREL CONNECTORS

4300-3146
Size 0,5 ÷ 6 mm²

BNC/TNC CONNECTORS FOR COAXIAL CABLES

4300-3136	***4300-3140***
RG 58, 59, 62, 71	*RG 174, 179*

TV - SATELLITE RECEIVER CONNECTORS

4300-3138
RG 6, 59

PHONE CONNECTORS

4300-3144	***4300-3132***
RJ 45 (LARGE)	*RJ 11 (SMALL)*

PHOTOVOLTAIC CONNECTORS (MULTI-CONTACT)

4300-3540	***4300-3539***	***4300-3541***
MC3 *Size 2,5 - 4/6 mm²*	*MC4* *Size 2,5/4/6 mm²*	*Tyco Solarlok* *Size 2,5/4/6 mm²*



VALSTAR R3 IDT
To order separately - sturdy plastic case designed to store an IDT tool and up to 10 modular dies.

Modular die storage housings are easily combined for convenient transportation





Modular die pack

CEMBRE

TN60C

NEW · 60kN · 360° · HEAD OPENING · ERGONOMIC · BALANCED · DURABLE · HEXAGONAL · INDENT · TRAPEZIUM

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Cu DIN lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
End sleeves			■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364





Professional manual mechanical tool suitable for crimping connectors up to 300 mm².

It can use all dies common to CEMBRE 60kN heads and tools.

The head rotates 360°, the operator can always crimp in the best position.

Telescopic extendable handles to reduce operator effort during compression.
Ergonomic shape of the two-component non-slip plastic handle.



TECHNICAL FEATURES

Dimensions mm	
Length (Handles closed)	*573*
Length (Extended handles)	*1.260*
Width	*168*
Height	*49*
Weight kg	*3,7*

MECHANICAL TOOLS TN RANGE

for uninsulated terminals and connectors

A-M SERIES

TN70SE
TN70
TN120SE
TN120S





DURABLE INDENT

TECHNICAL FEATURES

TN70SE TN70 Crimping Range	*Uninsulated terminals and connectors for conductor sizes 6 R/F to 70 R/F sqmm
Dimensions mm	
Length	450
Width	127
Height	47
Weight kg	2

*R= Rigid conductor F= Flexible conductor



Professional manual mechanical tool suitable for crimping A-M Cu lugs and non-insulated L-M and L-P connectors.
Heat treated steel crimp jaws.
Easily adjustable die positioning by knurled screw and reference vernier scale.
Handles made from anti-slip plastic with hilt.

TN70SE: vernier scale with section of conductors
TN70: vernier scale with connector sizes

TECHNICAL FEATURES

TN120SE TN120S Crimping Range	*Uninsulated terminals and connectors for conductor sizes 10 R/F to 120 R/150 F sqmm
Dimensions mm	
Length	700
Width	170
Height	47
Weight kg	3

*R= Rigid conductor F= Flexible conductor



TN120SE: vernier scale with section of conductors
TN120S: vernier scale with connector sizes

MECHANICAL TOOLS TN RANGE

for insulated terminals and connectors

ANE SERIES

TNN70
TNN120





DURABLE INDENT

TECHNICAL FEATURES

TNN70 Crimping Range	*Polyamide PA6.6 insulated terminals and connectors for conductor sizes 10 F to 70 F sqmm
Dimensions mm	
Length	450
Width	127
Height	47
Weight kg	2

*F= Flexible conductor



Professional manual mechanical tool suitable for the crimping of wire terminals and PA 6.6 insulated connectors.
Heat treated steel crimp jaws.
Easily adjustable die positioning by knurled screw and reference vernier scale.
Handles made from anti-slip plastic with hilt.

TECHNICAL FEATURES

TNN120 Crimping Range	*Polyamide PA6.6 insulated terminals and connectors for conductor sizes 10 F to 120 F sqmm
Dimensions mm	
Length	700
Width	170
Height	47
Weight kg	3

*F= Flexible conductor



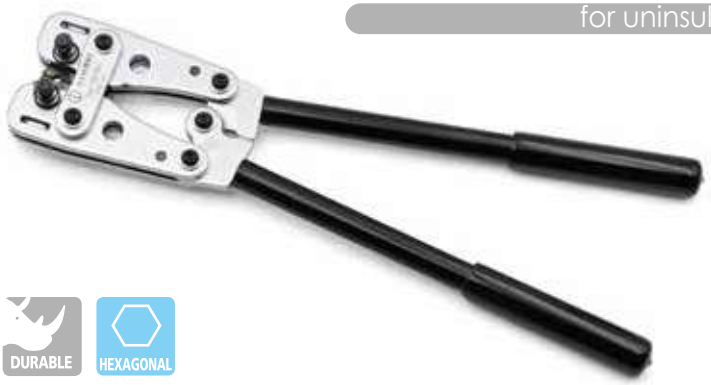
CEMBRE

TNE-A50

MECHANICAL TOOLS TNE RANGE

for uninsulated terminals and connectors

A-M SERIES





DURABLE HEXAGONAL

Mechanical tools equipped with rotating dies with hexagonal imprint, suitable for crimping A-M Cu lugs and non-insulated L-M connectors, particularly sturdy and easy to handle.



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors for conductor sizes 6 to 50 sqmm*
Dimensions mm	
Length	*386*
Width	*94*
Height	*40,5*
Weight kg	*1,45*

TNE-A120

MECHANICAL TOOLS TNE RANGE

for uninsulated terminals and connectors

A-M SERIES





DURABLE HEXAGONAL

Mechanical tools equipped with rotating dies with hexagonal imprint, suitable for crimping A-M Cu lugs and non-insulated L-M connectors, particularly sturdy and easy to handle.



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors for conductor sizes 10 to 120 sqmm*
Dimensions mm	
Length	*650,5*
Width	*152*
Height	*53,5*
Weight kg	*3,82*

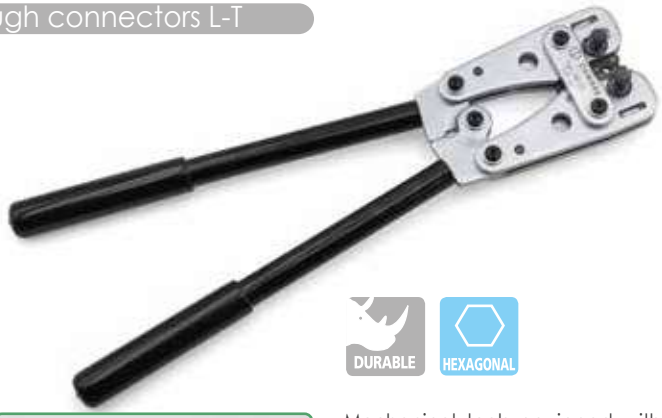
MECHANICAL TOOLS TNE RANGE

TNE-T50

for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T

T-M
SERIES





DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T for conductor sizes 6 to 50 sqmm*
Dimensions mm	
Length	*386*
Width	*94*
Height	*40,5*
Weight kg	*1,45*



Mechanical tools equipped with rotating dies with hexagonal imprint, suitable to crimp Copper lugs T-M series according to (NFC 20-130), T-L and and through connectors L-T (refer to page 56-57), particularly sturdy and easy to handle.

MECHANICAL TOOLS TNE RANGE

TNE-T120

for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T

T-M
SERIES





DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*for Cu tube lugs T-M (NFC 20-130), T-L and through connectors L-T for conductor sizes 10 to 120 sqmm*
Dimensions mm	
Length	*650,5*
Width	*152*
Height	*53,5*
Weight kg	*3,82*



Mechanical tools equipped with rotating dies with hexagonal imprint, suitable to crimp Copper lugs T-M series according to (NFC 20-130), T-L and and through connectors L-T (refer to page 56-57), particularly sturdy and easy to handle.

TNE-D50

MECHANICAL TOOLS TNE RANGE

for uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1

DR SERIES



DURABLE HEXAGONAL



Mechanical tools equipped with rotating dies with hexagonal imprint compliant with DIN 480863 suitable to crimp Copper lugs according to DIN 46235 and through connectors according to DIN 46267 T.1 (refer to page 48-49), particularly sturdy and easy to handle.



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1 for conductor sizes 6 to 50 sqmm*
Dimensions mm	
Length	*386*
Width	*94*
Height	*40,5*
Weight kg	*1,45*

TNE-D120

MECHANICAL TOOLS TNE RANGE

for uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1

DR SERIES



DURABLE HEXAGONAL



Mechanical tools equipped with rotating dies with hexagonal imprint compliant with DIN 480863 suitable to crimp Copper lugs according to DIN 46235 and through connectors according to DIN 46267 T.1 (refer to page 48-49), particularly sturdy and easy to handle.



TECHNICAL FEATURES

Crimping Range	*Uninsulated terminals and connectors according to DIN 46235 and DIN 46267 T.1 for conductor sizes 10 to 120 sqmm*
Dimensions mm	
Length	*650,5*
Width	*152*
Height	*53,5*
Weight kg	*3,82*

MECHANICAL TOOLS TNE RANGE

TNE-H50

for uninsulated copper tube lugs HR and through connectors HSV

HR SERIES





DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*for uninsulated Copper tube lugs HR and through connectors HSV for conductor sizes 6 to 50 sqmm*
Dimensions mm	
Length	*386*
Width	*94*
Height	*40,5*
Weight kg	*1,45*



Mechanical tools equipped with rotating dies with hexagonal imprint suitable to crimp Copper tube lugs HR and through connectors HSV (refer to page 50-55), particularly sturdy and easy to handle.

MECHANICAL TOOLS TNE RANGE

TNE-H120

for uninsulated copper tube lugs HR and through connectors HSV

HR SERIES





DURABLE HEXAGONAL

TECHNICAL FEATURES

Crimping Range	*for uninsulated Copper tube lugs HR and through connectors HSV for conductor sizes 10 to 120 mm²*
Dimensions mm	
Length	*650,5*
Width	*152*
Height	*53,5*
Weight kg	*3,82*



Mechanical tools equipped with rotating dies with hexagonal imprint suitable to crimp Copper tube lugs HR and through connectors HSV (refer to page 50-55), particularly sturdy and easy to handle.

HB14

WIRE STRIPPERS HB RANGE

for insulated cables

NEW



STRIPPING CUTTING LENGHT ADJUSTMENT FORCE ADJUSTMENT







Automatic wire stripper HB14
Automatic stripping force adjustment according to the cable section; the stripping force can be manually adjusted even for very soft or tough insulation for cables from 0,2 to 6,0 sqmm.
Stripping length adjustable from 6 to 18 mm.
Conductor cut from 0,2 to 2,5 sqmm.

TECHNICAL FEATURES

Dimensions mm	
Length	*200*
Width	*165*
Height	*28*
Weight g	*155*

HB6

STRIPPING LENGHT ADJUSTMENT

Wire strippers,
including stripping die for PVC insulated cables 0,02 to 10 sqmm



TECHNICAL FEATURES

Dimensions mm	
Length	*191*
Width	*90*
Height	*20*
Weight g	*136*

Interchangeable stripping dies available upon request:



4320-0866, rounded blades
suitable for:
PVC from 4 to 16 sqmm



4320-0864, flat blade
suitable for:
PVC from 0,02 to 10 sqmm



4320-0865, 'V' blades
suitable for:
PTFE from 0,1 to 4 sqmm

PTS4

STRIPPING



Wire stripping tool for PVC insulated cables from 0.2 to 6 mm^2

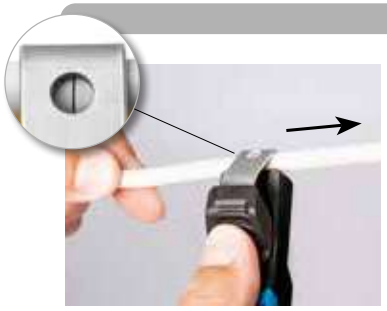
TECHNICAL FEATURES

Dimensions mm	
Length	*175*
Width	*90*
Height	*22*
Weight g	*200*

WIRE STRIPPERS HB RANGE

HB23

for insulated cables









STRIPPING

NEW



TECHNICAL FEATURES

Dimensions mm	
Length	*167*
Width	*32*
Height	*38*
Weight g	*124*

Bracket Type	Application range	Replacement No.
CB16-HB23	Ø 4-16 mm	No.16
CB28-HB23	Ø 8-28 mm	No.28
CB35-HB23	Ø 27-35 mm	No.35
CB50-HB23	Ø 35-50 mm	No.50
CB70-HB23	Ø 50-70 mm	No.70



Round cable stripper HB23
Round cable cutting system with intelligent, interchangeable bracket. Supplied as standard with brackets for cables No. 28 and 35, for the most common cable types from 8 to 35 mm Ø.

Thanks to this system, all the most common types of cables, from 4 to 70 mm in diameter, can be stripped with just one tool.

Intelligent bracket change according to stripping diameter
blade length: 3.5 mm

Cutting depth adjustment sliding stop to set the height of the hook blade according to insulation Thickness knife length:
2.8 to 4.6 mm

HB2



Cable stripping tool for circular cables Ø 4,5 to 28,5 mm

TECHNICAL FEATURES

Dimensions mm	
Length	*135*
Width	*-*
Height	*-*
Weight g	*107*

HB3



Wire stripping tool for circular diameters from 4.5 to 40 mm, insulation thickness up to 4.5 mm

TECHNICAL FEATURES

Dimensions mm	
Length	*167*
Width	*37*
Height	*40*
Weight g	*116*

HB17

WIRE STRIPPERS HB RANGE

for all standard insulated round cables

NEW



STRIPPING CUTTING

	Ø	8-13 mm			5/16-1/2"		
	mm²	0,2	0,3	0,8	1,5	2,5	4,0
	AWG	24	22	18	16	14	12



Stripper for all standard insulated round cables HB17

Stripper for all standard insulated round cables, including NYM 3x1,5 bis 5x2,5mm², NHXMH 3x1,5 bis 5x2,5mm² halogenfree.
No cutting depth adjustment required. TiN-coated blades.
Extra blade for longitudinal cut. 6 stripping blades from 0.2 to 4.0 mm².
Dual-compound handle for better grip and more safety.
Pocket clip.

TECHNICAL FEATURES

Dimensions mm	
Length	*124*
Width	*25*
Height	*35*
Weight g	*42*



HB19

WIRE STRIPPERS HB RANGE

for solar cables

NEW



STRIPPING



TECHNICAL FEATURES

Dimensions mm	
Length	*124*
Width	*25*
Height	*35*
Weight g	*50*



Stripper for solar cables HB19

Quick and precise stripping of all standard energy and security cables from 2.5-6mm², double shielded solar cables, shortcut and grounding-proof, flameretardant, halogen-free cables (e. g. NSGAFÖU, VER H07RN-F), with integrated, rotatable length stop for 8.5mm and 15mm stripping length.

WIRE STRIPPERS HB RANGE

for pvc-insulated data cables

HB20

NEW





STRIPPING



TECHNICAL FEATURES

Dimensions mm	
Length	*100*
Width	*18*
Height	*18*
Weight g	*24*

Stripper for pvc-insulated data cables HB20
The CEMBRE HB20 is a powerful stripping tool for PVC-insulated data cables (incl. Cat 5, Cat 6, and Cat 7 cables, Twisted-Pair cables) with diameters from 4.5 to 10mm (Ø 0.18-0.39 in.).

No adjustment to the cutting depth to the cable thickness is required, since the unique blade layout lifts the outer insulation carefully and strips the foil shielding. All stripper blades are titanium-nitride coated.

WIRE STRIPPERS HB RANGE

for coaxial cables

HB21

NEW





STRIPPING



TECHNICAL FEATURES

Dimensions mm	
Length	*100*
Width	*18*
Height	*18*
Weight g	*21*

Stripper for coaxial cables HB21
For quick and easy stripping of most common coaxial-cable types e.g. TV antenna cable types Ø 4,8-7,5mm (Ø 0.19-0.30 in.) and 3x0,75mm² (3x18 AWG) round PVC sheathed cable.

HB22

WIRE STRIPPERS HB RANGE

for insulated round cables

NEW



STRIPPING



Stripper for insulated round cables HB22
For all common round cables Ø 4-15mm (5/32"-19/32") with PVC-sheathing (e. g. type NYM or flexible cable), rubber or hard plastic sheathing.

For PVC-sheathed flat cables up to 15mm (19/32") width.

TECHNICAL FEATURES

Dimensions mm	
Length	*130*
Width	*25*
Height	*38*
Weight g	*49*



HB16

WIRE STRIPPERS HB RANGE

for sensor/actuator cables

NEW



STRIPPING

AUTOMATIC ADJUSTMENT





Automatic wire stripper HB16
Is tightly focussed to the needs of stripping the sheathing of sensor/actuator cables. With their new blade design the tools strip PVC/PUR cable sheathings precisely without damages to the individual conductors or shieldings inside.

The innovative cable scanning system adjusts the stripping blades automatically to the various cable diameters.

So the stripping of the outer sheathing of cables for connecting Sensor/Actuator boxes or bus couplers is being done quickly and safely.

TECHNICAL FEATURES

Dimensions mm	
Length	*172*
Width	*98*
Height	*30*
Weight g	*152*

CABLE STRIPPING TOOLS HB RANGE

for external sleeves of Low/Medium Voltage cables



HB13UE

Universal cable stripping tool for external sleeves of Low/Medium Voltage cables Ø 12,7 to 63,5 mm and primary insulator in XLPE max Ø 38,1 mm



Per semiconduttore estruso vulcanizzato



The HB12N kit includes:
- HB12N cable stripping tool
- sturdy plastic case



HB12N

HB12N cable stripping tool removes the semiconductor layer by being manually rotated around the cable while lateral advancement is achieved automatically. Safe and convenient, it can be used on cables with a semi-con diameter between 18 - 60 mm.

- Sturdy frame in anodised Aluminium alloy and Steel.
- Special Steel blade with precise cutting depth regulation.
- Stripping operation can start at any point along the conductor.
- Bearing mounted rollers provide smooth cutting action.
- With "REVERSE" function, which allows the removal of semiconductor up to 7 mm thick from the sheath of the cable.
- Double speed for each direction.





HB9

Insulated knife, with curved blade and protective cover.
Suitable for insulation and screen removal, equipped with blade guide to avoid damage to strands.
Handle is made of a bi-component plastic material.



HB10

Insulated knife has an interchangeable straight blade and plastic blade protector that folds into the handle.
Ergonomic handle made of anti shock plastic material

CEMBRE

CABLE CUTTERS KT RANGE FOR SMALL SECTIONS

for cutting cables Cu and Al

KT1R

NEW · DURABLE · Ø 12mm



TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø Max 12 mm
Dimensions mm	
Length	170
Width	65
Height	20
Weight g	230

KT1N

NEW · DURABLE · Ø 15mm



TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø Max 15 mm
Dimensions mm	
Length	170
Width	65
Height	28
Weight g	264

KT2N

NEW · DURABLE · Ø 20mm



TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø Max 20 mm
Dimensions mm	
Length	220
Width	65
Height	28
Weight g	350

KT5

DURABLE · Section 25mm²



TECHNICAL FEATURES

Cutting Capacity	for cutting cables Cu and Al up to max section 25 sqmm
Dimensions mm	
Length	170
Width	52
Weight g	108

RATCHET CABLE CUTTERS KT RANGE

for cutting cables Cu and Al

KT3N

TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø max 34 mm
Dimensions mm	
Length	260
Weight g	600



KT4N

TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø max 62 mm
Dimensions mm	
Length	297
Weight g	800



KT45

TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø Max 45 mm
Dimensions mm	
Length	250
Width	110
Weight g	950



KT6

TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø Max 100 mm
Dimensions mm	
Length	650
Width	250
Weight g	4



CABLE CUTTERS KT RANGE FOR LARGE SECTIONS

for cutting cables Cu and Al

KT7

NEW DURABLE Ø 27mm





TECHNICAL FEATURES

Cutting Capacity	*For cutting cables Cu and Al Ø Max 27 mm*
Dimensions mm	
Length	*500*
Width	*170*
Height	*50*
Weight g	*1.260*

KT8

NEW DURABLE Ø 38mm





TECHNICAL FEATURES

Cutting Capacity	*For cutting cables Cu and Al Ø Max 38 mm*
Dimensions mm	
Length	*570*
Weight g	*2.300*

CABLE CUTTERS KT RANGE FOR LARGE SECTIONS

for cutting cables Cu and Al

5116660250



TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø max 18 mm
Dimensions mm	
Length	600
Width	140
Weight kg	1,5

5116660500



TECHNICAL FEATURES

Cutting Capacity	For cutting cables Cu and Al Ø max 25,4 mm
Dimensions mm	
Length	800
Width	160
Weight kg	3,0

KTS1632

for cutting and sealing flexible plastic conduit

Cuts and seals flexible plastic conduit in a single operation.
Lightweight and easy to operate.
Suitable for flexible conduits from Ø16 to Ø32 mm.



TECHNICAL FEATURES

Dimensions mm	
Length	*230*
Width	*58*
Thickness	*32*
Weight kg	*0,32*





PC1

for cutting plastic pipe

Plastic pipe cutting tool
Cutting capacity: Ø 6 to Ø 42 mm.

Body: die-cast aluminium alloy
Blade material: hardened Carbon Steel



TECHNICAL FEATURES

Dimensions mm	
Length	*195*
Width	*96*
Thickness	*27*
Weight kg	*0,32*



5313022048

Automatic cutting



TECHNICAL FEATURES

Application Range	*For plastic cable ties from 2,2 to 4,8 mm*
Dimensions mm	
Length	*162*
Width	*133*
Height	*23*
Weight g	*208*

5527030079

With cutting device



TECHNICAL FEATURES

Application Range	*For stainless steel cable ties width up to 7,9 mm*
Dimensions mm	
Length	*180*
Width	*141*
Height	*30*
Weight g	*558*

5523036090

Manual cutting



TECHNICAL FEATURES

Application Range	*For plastic cable ties from 4,8 to 9 mm*
Dimensions mm	
Length	*194*
Width	*100*
Height	*25*
Weight g	*324*

VALSTAR-N

ASSORTMENT CASE

for storing connecting material and hand tools



VALSTAR-N0 (empty)

Robust plastic case with compartments

- **1 storage compartment**
  for mechanical tools, type Crimpstar® /ZKE-N/etc.
- **8 storage compartments**
  for connecting material

Dimensions (LxWxH): 340 x 274 x 71 mm
Weight: 698 g



VALSTAR-N1

Robust plastic case with compartments, containing:

- Tool type **ZKE610N**
- a selection of end sleeves PKC conductor size from 1 to 6 mm²
- Cable ties type G100X2.5

VALSTAR-N1 Material included:

Q.ty	Cond. Size mm²	Length mm	Color	Type
500	1	14	Yellow	**PKC108**
500	1.5	14	Red	**PKC1508**
500	2.5	14	Blue	**PKC2508**
200	4	18	Grey	**PKC410**
100	6	20	Black	**PKC612**
100	-	100 x 2,5	White	**G100X2.5**

VALSTAR-N2

Robust plastic case with compartments, containing:

- Tool type **ZKE610N**
- a selection of end sleeves PKE conductor size from 1 to 6 mm²
- Cable ties type G100X2.5

VALSTAR-N2 Material included:

Q.ty	Cond. Size mm²	Length mm	Color	Type
500	1	14	Red	**PKE108**
500	1.5	14	Black	**PKE1508**
500	2.5	14	Grey	**PKE2508**
200	4	18	Orange	**PKE410**
100	6	20	Green	**PKE612**
100	-	100 x 2,5	White	**G100X2.5**

VALSTAR-N3

Robust plastic case with compartments, containing:

- Tool type **ZKE610N**
- a selection of end sleeves PKD conductor size from 1 to 6 mm²
- Cable ties type G100X2.5

VALSTAR-N3 Material included:

Q.ty	Cond. Size mm²	Length mm	Color	Type
500	1	14	Red	**PKD108**
500	1.5	14	Black	**PKD1508**
500	2.5	14	Blue	**PKD2508**
200	4	18	Grey	**PKD410**
100	6	20	Yellow	**PKD612**
100	-	100 x 2,5	White	**G100X2.5**



VALSTAR-N4 Material included:

Q.ty	Cond. Size mm²	Description	Type
100	0,25÷1,5	ring terminals	**RF-M4**
100	1,5÷2,5	ring terminals	**BF-M5**
100	4÷6	ring terminals	**GF-M6**
100	0,25÷1,5	female disconnect terminals	**RF-F608P**
100	1,5÷2,5	female disconnect terminals	**BF-F608P**
100	0,25÷1,5	butt connectors	**PL03-M**
	Length mm		
100	100 x 2,5	cable ties	**G100X2.5**

VALSTAR-N4

Robust plastic case with compartments, containing:
- Tool type **Crimpstar® HP3**.
- An assortment of PVC insulated crimp terminals for conductor sizes from 0,25 to 6 mm².
- Cable ties



VALSTAR-N11 **NEW**

Robust plastic case with compartments, containing:
- Tool type **Crimpstar® HP5**.

VALSTAR-N

ASSORTMENT CASE

for storing connecting material and hand tools



VALSTAR-N5

Robust plastic case with compartments, containing:
- Tool type **HWE1N**
- KE16-WE die
- RBY-WE die

VALSTAR-N5 Dies included:

Q.ty	Cond. Size mm²	Description	Type
1	0,5÷16	Insulated and uninsulated end sleeves	**KE16-WE**
1	0,5÷6	Insulated connectors red, blue and yellow	**RBY-WE**



VALSTAR-N6 NEW

Robust plastic case with compartments, containing:
- Tool type **HWE1N**
- Tool type **HB11**
- MC4-WE die

VALSTAR-N6 Dies included

Q.ty	Cond. Size mm²	Description	Type
1	4 ÷ 6	Dies for Multi-Contacts MC4 connectors	**MC4-WE**

BENCH PRESS TOOLS



PNB-1

BENCH PRESS TOOL

Pneumo-hydraulic with interchangeable dies



Pneumo-hydraulic, production bench press, operated by a manual control, provides a consistent and reliable crimped connection. Extensive range of interchangeable dies available for crimping a wide variety of connectors.

NOTE: for applications not listed, please contact CEMBRE.



PNB-1 detail of the crimping zone with PU-1 guard.

TECHNICAL FEATURES

Nominal operating pressure	*6 bar*
Dimensions mm	
Width	*180*
Depth	*320*
Height	*700*
Weight kg (without dies)	*23*

INTERCHANGEABLE DIES (to be ordered separately)

Die Set	Guard*	Connector Type			Nominal Conductor Size sqmm
PV-1	PU-1	Insulated Connectors		green	0,2÷0,5
PR-1				red	0,25÷1,5
PB-1				blue	1,5÷2,5
PG-1				yellow	4÷6
PH1-1	PH-1**	Butt connectors PVC insulated		PL03-M	0,25÷1,5
				PL06-M	1,5÷2,5
				PL1-M	4÷6
PH1-1	PH-1**	Through connectors PE HD insulated			0,5÷6
		NL-M, NL-P connectors PA6.6 insulated			0,25÷6
KE0.75-1	PK-1	End Sleeves		KE, PK...	0,3 - 0,5 - 0,75
KE2.5-1					1 - 1,5 - 2,5
KE10-1					4 - 6 - 10
MTT16-50	ME-1				16
MTT25-50					25
N1-1	PU-1	A 03-M..	S 1.5-..	RN-..	0,25 - 1,5
		A 06-M..	S 2.5-..	BN-..	1,5 - 2,5
		A 1-M..	S 6-..	GN-..	4 - 6
ME1-50	PU-1	Uninsulated Copper Lugs		A1-M..	4 - 6
ME2-50	ME-1			A2-M.. S10-M..	10
ME3-50				A3-M..	16
ME5-50				A5-M..	25
ME7-50				A7-M..	35
ME9-50				A9-M..	
ME10-50				A10-M..	50
ME12-50				A12-M..	
MS6-50	ME-1	Uninsulated Copper Lugs		T6-M	4 - 6
MS10-50				T10-M	10
MS16-50				T16-M	16
MS25-50				T25-M	25
MS35-50				T35-M	35
MS50-50				T50-M	50
MN2RF-50	MN RF-1	Polyamide Insulated Lugs		ANE2-M..	10
MN3RF-50				ANE3-M..	16
MN5RF-50				ANE5-M..	25
MN7RF-50				ANE7-M..	35
				ANE9-M..	

** Supplied as standard with the machine ** Supplied as standard with the die*

BENCH PRESS TOOL

PNB-3

Pneumatic

TECHNICAL FEATURES

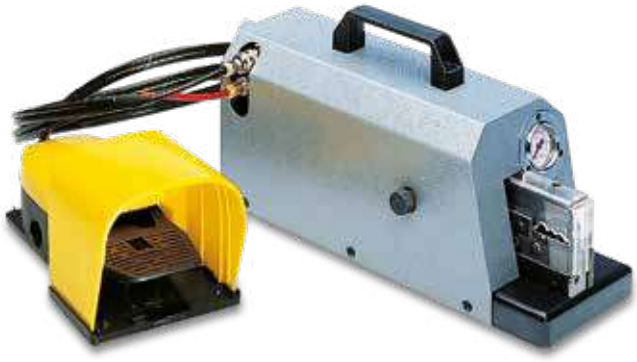
Nominal operating pressure	*6÷7 bar*
Dimensions mm	
Width	*130*
Depth	*370*
Height	*195*
Weight kg	*10,3*



PNB-3P detail of the crimping zone.

Pneumatic bench press operated by foot pedal for crimping terminals and connectors 0,25 to 16 sqmm.





BENCH PRESS RANGE

Type	Connector Type	Conductor Size sqmm
PNB-3P*	Insulated connectors red, blue and yellow	0,25÷6
PNB-3PD	Insulated terminals and butt connectors - frontal insertion	0,25÷6
PNB-3N1	Uninsulated terminals	0,25÷10
PNB-3N5	Uninsulated terminals	10÷16
PNB-3NN3	Polyamide insulated terminals	1,5÷10
PNB-3NN4	Polyamide insulated terminals	10÷16
PNB-3F/M	Bullet connectors	0,5÷2,5

** Will also crimp Polycarbonate fully-insulated terminals if fitted with PNB3F/M positioner, available as an optional accessory (Cod. 6240145)*

BENCH PRESS TOOL

PNB-4KE

Pneumatic with multi-aperture die

TECHNICAL FEATURES

Nominal operating pressure	*6 bar*
Dimensions mm	
Width	*120*
Depth	*160*
Height	*300*
Weight kg	*6*



PNB-4KE detail of the crimping zone.

Pneumatic bench press, operated by a manual control.
Supplied with a multi-aperture die suitable for crimping insulated and uninsulated end sleeves from 0,3 to 10 sqmm.
Compact and efficient. Easy to operate, producing a secure and reliable crimped connection.





MULTI DIES

Type	Connector Type	Conductor Size sqmm
PNB-4KE	End Sleeves type PK.. and type KE	0,3÷10

CEMBRE

EPB-1N

ELECTRO-PNEUMATIC BENCH PRESS

automatic stripping / crimping machine for insulated end sleeves

DURABLE ERGONOMIC PROTECTED SILENT TRAPEZIUM CE

Bench press type EPB-1N, electro-pneumatically operated, is designed for stripping and crimping insulated end sleeves CEMBRE type PKC, PKD and PKE.
The basic configuration processes connectors of c.s.a 0,5/0,75/1,0 and 1,5 mm^2 with a sleeve lengths of 6, 8, 10 and 12 mm.
Adapter kits are available:
KIT-2.5-EPB1N
for insulated end sleeves c.s.a 2,5 sqmm with a sleeve length of 8, 10 and 12 mm
KIT-4-EPB1N
for insulated end sleeves c.s.a 4,0 sqmm with a sleeve length of 10 mm
Stripping and crimping operations are carried out in quick succession. Adjustable loading speed of vibrating charger.
Quick and easy change of configuration for different connector sizes. Automatic adjustment of operating perameters to suit each configuration.
Modular structure and wear-free components guarantee excellent reliability.





Adapter Kit for insulated end sleeves c.s.a 2,5 sqmm
(KIT-2.5-EPB1N)
(KIT-4-EPB1N)



TECHNICAL FEATURES

Crimping Range	*0,5-1,5 mm^2 (basic configuration)*
Dimensions mm	
Length	*390*
Width	*240*
Height	*490*
Weight kg	*29*
Power Supply	*230 V/50 Hz (110 V/60 Hz)*
Current	*0,5 A*
Length of crimp	*6, 8, 10 and 12 mm*
Geometry of crimp	*Trapezoidal*
Cycle time	*2 s*
Compressed Air supply	*Min. 4 - Max 6 bar*
Air consumption	*1,2 l / cycle*
Cycle controller	*Electro-pneumatic, with microprocessor*
Counter	*Digital*



PNEUMATIC CRIMPING TOOLS

Hand held - PNB series

PNB-6KE
PNB-7KE

PNB-6KE TECHNICAL FEATURES

Crimping Range	*0,25 ÷ 2,5 sqmm / 24 ÷ 14 AWG*
Dimensions mm	
Length	*190*
Width Ø	*44*
Length with spiral hose	*2 m*
Weight g	*450*

PNB-7KE TECHNICAL FEATURES

Crimping Range	*4 ÷ 10 sqmm / 12 ÷ 8 AWG*
Dimensions mm	
Length	*190*
Width Ø	*44*
Length with spiral hose	*2 m*
Weight g	*450*

PNB-6KE and PNB-7KE hand tools facilitate the rapid crimping of insulated end sleeves while avoiding the operator discomfort associated with ordinary manual tools.
Lightweight and easy to use, these tools are ideal for panel building applications and component assembly.

Both tools are designed to be maintenance-free and need no routine calibration. A 4-6 bar air supply is required for connection via the quick coupler fitted to the hose supplied with the tool.







PNEUMATIC CRIMPING TOOLS

Bench mounted tools with foot pedal - PNB series

PNB-6KE-T
PNB-7KE-T

PNB-6KE-T TECHNICAL FEATURES

Crimping Range	*0,25 ÷ 2,5 sqmm / 24 ÷ 14 AWG*
Dimensions mm	
Length	*200*
Width Ø	*135*
Height	*75*
Length with spiral hose	*2 m*
Weight g	*1000*

PNB-7KE-T TECHNICAL FEATURES

Crimping Range	*4 ÷ 10 sqmm / 12 ÷ 8 AWG*
Dimensions mm	
Length	*200*
Width Ø	*135*
Height	*75*
Length with spiral hose	*2 m*
Weight g	*1000*

PNB-6KE-T and PNB-7KE-T have bench mounts with storage and are foot pedal operated to allow operators to have both hands free when assembling cable harnesses. Both tools are designed to be maintenance-free and need no routine calibration.



A 4-6 bar air supply is required for connection via the quick coupler fitted to the hose supplied with the tool.





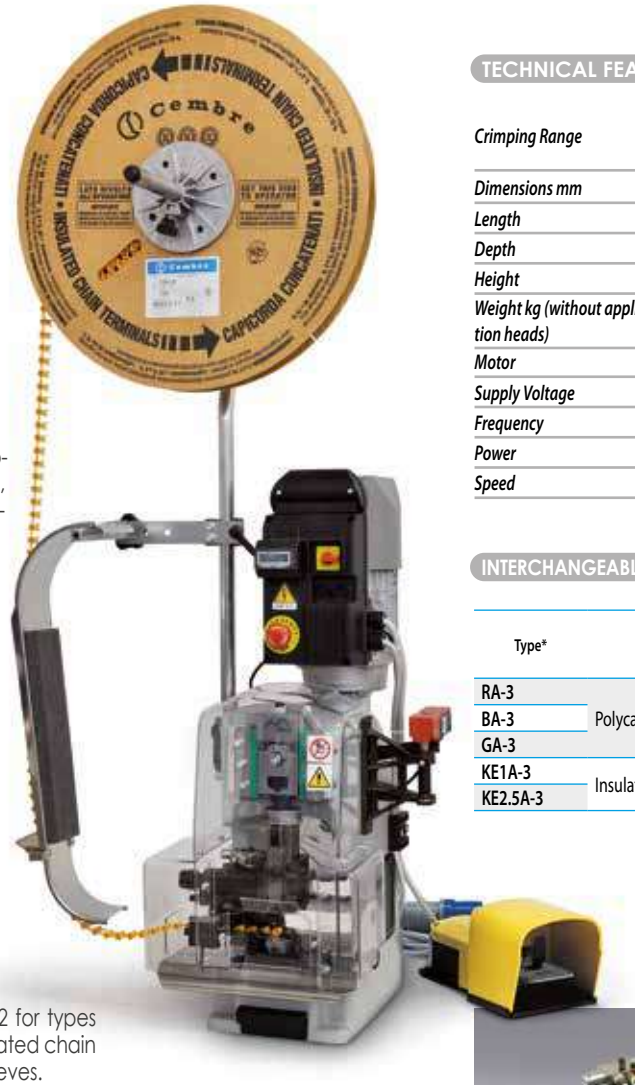
CEMBRE

ELB-3

BENCH PRESS

for Polycarbonate insulated chain connectors

DURABLE · ERGONOMIC · SILENT · PROTECTED · RADIAL · TRAPEZIUM · CE



Electro-pneumatic, production bench press, controlled by a foot operated pedal.
Producing a consistent and reliable crimped connection.
Interchangeable application heads available to suit the complete range of Polycarbonate insulated connectors.

See pages 12-13 and 22 for types and features of the insulated chain connectors and end sleeves.

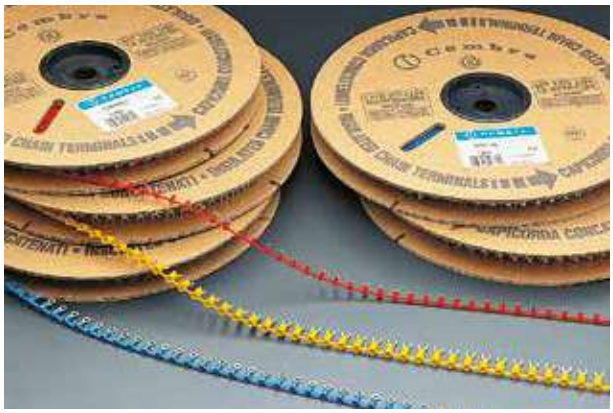
TECHNICAL FEATURES

Crimping Range	*Polycarbonate insulated chain terminals 0,25 ÷ 6 mm² and insulated chain end sleeves 0,5 ÷ 2,5 mm²*
Dimensions mm	
Length	*180*
Depth	*250*
Height	*620*
Weight kg (without application heads)	*41*
Motor	
Supply Voltage	*220 V*
Frequency	*50 Hz*
Power	*0,55 kW/0,75 HP*
Speed	*2.800 g/1'*

INTERCHANGEABLE APPLICATION HEADS, SIDE ENTRY WITH PNEUMATIC FEED

Type*	Connectors	Conductor Size sqmm
RA-3	Polycarbonate insulated chain terminals	0,25÷1,5
BA-3		1,5÷2,5
GA-3		4÷6
KE1A-3	Insulated chain end sleeves	0,3÷0,75
KE2.5A-3		1÷2,5

** order as required*







Conforms to DIN Standard 46 228/4



PROFESSIONAL EQUIPMENT



CEMBRE

SYMBOL DESCRIPTION

professional equipment



Can be operated with one hand



Ergonomically designed with a sculptured body for operator comfort



Lightweight and balanced for greater control



Dual-compound plastic handles
Greater safety and comfort in handling, thanks to the rubber inserts



Durable moulded body offering high resistance to wear and damage in all operating conditions



Max cutting section



High hardness blades



Stainless steel blades



High tensile steel blades



Micro-serrated blades for anti-slip purpose



Special Steel frame for high resistance and a long life



Chrome Steel Tools



Chrome Vanadium Steel Tools



Aluminum frame



ABS structure



Luminous flux intensity



Equipped with USB charging



Equipped with wireless charging



Equipped with magnetic support



Equipped with power plug

SYMBOL DESCRIPTION

professional equipment

DIMMER — Equipped with dimmer switch

MOTION SENSOR — Equipped with an ON / OFF motion sensor

POWER BANK — Can be used as an power bank

IP65 — Degree of Protection

DURATION FRONT/TORCH 3/5h — Lamp life in Front / Flashlight mode

DURATION MAX/MIN 1/22h — Autonomy of the lamp at Maximum / Minimum intensity

TRIPOD READY — The light can be tripod mounted

APP — Control with App

CE — CE marking

UKCA — UKCA marking

-10°C +40°C — Operating temperature range



PROFESSIONAL SCISSORS SC5X

For flexible conductors Cu-Al

Robust-A

Professional scissors with a Special Steel frame for high resistance and long life.
Ergonomic and dual-compound plastic handles: glass fibre reinforced Polyamide and inserts of soft Rubber.
The anti-loosening pivot and bevelled profile allow the accurate and consistent alignment of the blades.
High hardness blades (58 HRC) and an anti-slip serrated edge for making precise cuts even on more difficult materials.
Shaped groove for cutting conductor up to 50 mm².

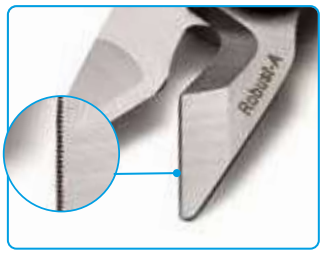
Supplied with carry case and swivel belt hook.

Special Steel frame for high resistance and a long life



DESIGN REGISTERED





Micro serrated blade



Anti-loosening pivot



Dual-compound material



Case with swivel belt hook

PROFESSIONAL SCISSORS SC6X

SC6X

For flexible conductors Cu-Al

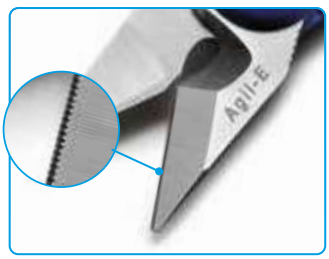
Weighing only 86 grams these lightweight scissors feature tapered blades and ergonomically shaped handles to aid speed of operation and consistent results.
The design of the blades allows the scissors to be used in confined spaces and affords the user minimum effort when cutting conductors.
Handles have an integrated crimping system for end sleeves.
The anti-loosening pivot and bevelled profile allow the accurate and consistent alignment of the blades.
High hardness blades (58 HRC) and an anti-slip serrated edge for making precise cuts even on more difficult materials.
Shaped groove for cutting conductor up to 50 mm².

Supplied with carry case and belt fastening system.

lightweight design only 86 grams







Micro serrated blade



Anti-loosening pivot



Dual-compound material



Case with belt fastening system

CEMBRE

SC5X

PROFESSIONAL SCISSORS SC RANGE

For flexible conductors Cu-Al



Professional scissors with a Special Steel frame for high resistance and a long life.
Extremely lightweight and robust for safe, easy handling and comfort. Easy cutting of conductors upto 50 sqmm using the shaped grooves in each blade.
Safe and easy operation even when wearing work gloves.

Main Features

Cutting Capacity	*for flexible conductors Cu - Al up to max section 50 sqmm*
Dimensions mm	
Length	*162*
Width	*77*
Height	*18*
Weight g	*121*



SC6X

PROFESSIONAL SCISSORS SC RANGE

For flexible conductors Cu-Al



Weighing only 86 grams these lightweight scissors feature tapered blades and ergonomically shaped handles to aid speed of operation and consistent results.
The design of the blades allows the scissors to be used in confined spaces and affords the user minimum effort when cutting conductors.
Handles have an integrated crimping system for end sleeves.

Main Features

Cutting Capacity	*for flexible conductors Cu - Al up to max section 50 sqmm*
Dimensions mm	
Length	*153*
Width	*73,6*
Height	*18*
Weight g	*86*



PROFESSIONAL SCISSORS SC RANGE

SC3X

For flexible conductors Cu-Al

Main Features

Cutting Capacity	for flexible conductors Cu - Al up to max section 35 sqmm
Dimensions mm	
Length	150
Width	75
Height	20
Weight g	86

Multi-purpose scissors with high hardness blades (56 HRC) and anti slide serrations.
The moulded plastic handles combine a rigid structure with a softer material for finger comfort.
Cutting of flexible conductors up to 35 sqmm





PROFESSIONAL SCISSORS SC RANGE

SC1

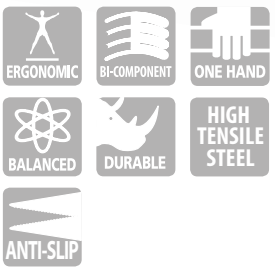
For flexible conductors Cu-Al

Main Features

Cutting Capacity	for flexible conductors Cu - Al
Dimensions mm	
Length	145
Width	76
Height	17
Weight g	78

Electricians scissors with high tensile steel blades allowing for excellent strength and performance. Specially micro-serrated blades for anti-slip purpose. Handles are made from dual component materials.





CEMBRE

CBL01

150 LUMEN · MAGNETIC · IP20 · USB CHARGE · DURATION FRONT/TORCH 2,5/3,5h · CE · UK CA

CBLIGHT

pocket torch



Pocket torch CBL01

The handy CBL01 torch is the size of a pen and is equipped with a double light point to illuminate small work areas. The side light allows you to illuminate the area while leaving it in your pocket, while the front light allows you to inspect less accessible areas. The clip is equipped with a magnet allowing it to be attached to any metal surface, freeing the operator's hands. Supplied with USB charging cable.

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL01	*150 / 70*	*2.5 / 3.5 h*	*A++*	*Yes*	*USB*	*IP20*	*-10 / +40*	*ABS*	*PC*	*160 x 15 x 20*	*38*

CBL02-W

Tool Type	Plug Type	Supplied Battery Charger Type
CBL02-W	PLUG EU	ASC55-EU with EUROPEAN plug
CBL02-WE	PLUG UK	ASC55-UK with UK plug
CBL02-WA	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug

400 LUMEN · MAGNETIC · IP54 · WIRELESS CHARGE · USB CHARGE · MOTION SENSOR · DURATION FRONT/TORCH 3/5h · CE · UK CA

CBLIGHT

head torch



Head torch CBL02-W

Ideal for any indoor or outdoor activity requiring localised lighting and freedom of action, the CBL02-W head torch is equipped with a touch sensor allowing operation even while wearing gloves. The light intensity can be modulated via the dimmer function helping to preserve battery life.
The CBL02-W is a versatile head torch adjustable by means of an elastic band to fit work helmets of various sizes.
Supplied with USB charging cable and charger.

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL02-W	*400 / 80*	*3 / 5 h*	*A++*	*Yes*	*USB / Wireless*	*IP54*	*-10 / +40*	*ABS+PC*	*PC*	*78 x 39 x 36*	*105*

CBL03-W

Tool Type	Plug Type	Supplied Battery Charger Type
CBL03-W	PLUG EU	ASC55-EU with EUROPEAN plug
CBL03-WE	PLUG UK	ASC55-UK with UK plug
CBL03-WA	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug

300 LUMEN · MAGNETIC · IP65 · WIRELESS CHARGE · USB CHARGE · DIMMER · DURATION FRONT/TORCH 3/6h · CE · UK CA

CBLIGHT

multi-purpose lamp



Multi-purpose lamp CBL03-W

The CBL03-W multi-purpose lamp is a mini-lamp that can be used on a table or hung on metal surfaces thanks to the handy magnet or the suspension hook.

It is equipped with an ergonomic non-slip handle to make it easy to use.
The 2 light points with dimmer function allow you to modulate the intensity and battery life as needed.
The compact design makes it ideal as a pocket lamp for storage in a jacket pocket or work trousers.
Supplied with USB charging cable and charger.

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL03-W	*300 / 100*	*3 / 6 h*	*A++*	*Yes*	*USB / Wireless*	*IP65*	*-10 / +40*	*ABS*	*PC*	*133 x 68 x 25*	*190*

CBLIGHT

space-saving floor lamp

CBL04-W

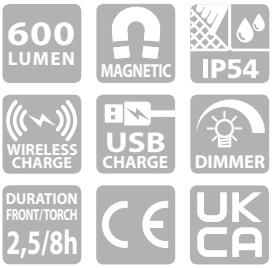
The most versatile of the family is the CBL04-W, which has a double light point, 2 dimmable light intensities, a rotatable and foldable stem and allows ideal lighting in all conditions.
The double magnetic support and the suspension hook allow the lamp to be secured anywhere with ease.

Designed to be easy to carry in a bag or trouser pocket while also offering excellent battery life and low weight portability.
The compact design ensures the CBL04-W is the ideal solution for inspecting difficult to reach areas.
Supplied with USB charging cable and charger.

Tool Type	Plug Type	Supplied Battery Charger Type
CBL04-W	PLUG EU	ASC55-EU with EUROPEAN plug
CBL04-WE	PLUG UK	ASC55-UK with UK plug
CBL04-WA	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug



Space-saving floor lamp CBL04-W



Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL04-W	*600 / 100*	*2.5 / 8 h*	*A++*	*Yes*	*USB / Wireless*	*IP54*	*-10 / +40*	*ABS*	*PC*	*175 (325 max) x 44 x 38*	*246*

CBLIGHT

portable lamps

CBL05-W

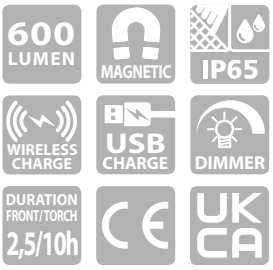
An ergonomic bi-component plastic handle makes the CBL05-W the most comfortable and robust lamp in the series, particularly suited to lengthy inspection work.
Featuring two light points, dimmer function and a long battery life.

Equipped with magnetic table support with retractable suspension hook.
Supplied with USB charging cable and charger.

Tool Type	Plug Type	Supplied Battery Charger Type
CBL05-W	PLUG EU	ASC55-EU with EUROPEAN plug
CBL05-WE	PLUG UK	ASC55-UK with UK plug
CBL05-WA	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug



Portable lamps CBL05-W



Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL05-W	*600 / 100*	*2.5 / 10 h*	*A++*	*Yes*	*USB / Wireless*	*IP65*	*-10 / +40*	*PC*	*PC*	*205 x 55 x 40*	*300*

CBL06

CBLIGHT

portable spotlight for small-medium work environments

Tool Type	Plug Type	Supplied Battery Charger Type
CBL06	PLUG EU	ASC55-EU with EUROPEAN plug
CBL06E	PLUG UK	ASC55-UK with UK plug
CBL06A	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug

2000 LUMEN · MAGNETIC · IP65 · USB CHARGE · POWER BANK · DURATION FRONT/TORCH 3,5/7h · CE · UKCA



The CBL06 portable spotlight meets the requirement of those who need to illuminate small-medium work environments.

The magnetic table mount allows the spotlight to be secured to metal surfaces.
The power bank function allows small devices to be charged via the USB output, useful for emergency situations.
Supplied with USB charging cable and charger.

Portable spotlight for small-medium work environments CBL06

Main Features

Type	Lumen Front / Flashlight	Duration Front / Flashlight	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL06	*2000*	*3.5 / 7 h*	*A++*	*Yes*	*USB*	*IP65*	*-10/+40*	*ABS*	*PC*	*195 x 125 x 48*	*800*

CBL07

CBLIGHT

portable spotlight for large work environments

Tool Type	Plug Type	Supplied Battery Charger Type
CBL07	PLUG EU	ASC55-EU with EUROPEAN plug
CBL07E	PLUG UK	ASC55-UK with UK plug
CBL07A	PLUG USA CAN	ASC30-36-USA/CA (115V) with USA/ CANADA plug

3000 LUMEN · IP65 · POWER BANK · POWER PLUG CHARGE · DURATION FRONT/TORCH 3/6h · CE · UKCA



The diffused light emitted by the CBL07 spotlight enables the illumination of large areas.
Light, practical and sturdy, this spotlight is quick to install.
The power bank function allows small devices to be charged via the USB output, useful for emergency situations.
Supplied with charger.

Portable spotlight for large work environments CBL07

Main Features

Type	Lumen	Duration	Energy Class	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL07	*3000 / 1500*	*3 / 6 h*	*A+*	*No*	*Power Plug*	*IP65*	*-10/+40*	*ABS*	*PC*	*277 x 213 x 86*	*1400*

CBLIGHT

wireless charging bases

BCB1-W
BCB2-W

The BCB1-W and BCB2-W charging bases make it possible to keep the lamps fully charged meaning they are always ready for use.
The magnetic construction allows quick attachment to metal surfaces along with holding the lamps in place during charging.

The BCB1-W single base is designed to recharge a single lamp. The BCB2-W allows 2 lamps to be charged at the same time.
Supplied with USB charging cable and charger.

IP20 · MAGNETIC · WIRELESS CHARGE · USB CHARGE · CE · UKCA



BCB2-W

BCB1-W

Wireless charging bases

Tool Type	Plug Type	Supplied Battery Charger Type
BCB1-W	PLUG EU	**ASC55-EU** with EUROPEAN plug
BCB1-WE	PLUG UK	**ASC55-UK** with UK plug
BCB1-WA	PLUG USA CAN	**ASC30-36-USA/CA** (115V) with USA/ CANADA plug

Tool Type	Plug Type	Supplied Battery Charger Type
BCB2-W	PLUG EU	**ASC55-EU** with EUROPEAN plug
BCB2-WE	PLUG UK	**ASC55-UK** with UK plug
BCB2-WA	PLUG USA CAN	**ASC30-36-USA/CA** (115V) with USA/ CANADA plug

Main Features

Type	Magnetic Support	Charging Method	Degree of Protection	Operating Temperature Range °C	Body Material	Dimensions mm	Weight g
BCB1-W	*Yes*	*USB/Wireless*	*IP20*	*-10/+40*	*ABS*	*150 x 106 x 18 (single)*	*190*
BCB2-W	*Yes*	*USB/Wireless*	*IP20*	*-10/+40*	*ABS*	*202 x 106 x 18 (double)*	*270*

CBLIGHT

extendable tripod

TRCB2

The TRCB2 tripod can be extended up to a maximum of 2.0 m, and offers maximum flexibility to position CBLIGHT lamps at the desired height.
When mounted on the tripod, the light can be tilted at will to provide the optimal beam angle.
Its robust structure makes it safe even when it is fully extended.





Type	Suitable for Lamp Type
TRCB2	**CBL06 CBL07**

Extendable tripod TRCB2

Main Features

Type	Body Material	Minimum height open mm	Max height open mm	Base Ø maximum mm	Dimensions Closed mm	Weight g
TRCB2	*Steel*	*1130*	*2000*	*1000*	*1030 x 160*	*3200*

CEMBRE

CBL08HD

CBLIGHT HD

multipurpose portable headlight

2000 LUMEN · IP30 · POWER BANK · USB · DIMMER · DURATION MAX/MIN 5,75/58h · CE · UKCA



Compatible with the battery system **METABO/CAS**

The powerful and compact CBL08HD work light is designed for professional use.
The headlight is equipped with the latest high COB LED technology performance and provides up to 2000 lumens.
Compatible with METABO/CAS 18V batteries, in alternative can be used with PSCB18-power supply EU for direct power providing unlimited availability of light.
Built-in dimmer function allows you to adjust the emission of light in five different levels.
Integrated power bank with USB socket for charging devices furniture.
The work light is supplied without battery, it can be supplied on request and available as an accessory (see page 227)



Multipurpose portable headlight CBL08HD

Main Features

Type	Lumen	Duration with CB1852L Battery at Intensity Max / Min	Compatible with Batteries METABO /CAS	Bluetooth	Powered with Type (available on request)	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Body Material	Lamp Material	Dimensions mm	Weight g
CBL08HD	*2000*	*5.75 / 58 h*	*Yes*	*No*	*CB1820L / CB1852L PSCB18-EU*	*IP30*	*IK07*	*-10/+40*	*AL*	*PC*	*161 x 164 x 78*	*720*

CBL09HD

CBLIGHT HD

portable lighthouse for medium environments

4000 LUMEN · IP65 · POWER BANK · USB · DIMMER · DURATION MAX/MIN 3/31h · TRIPOD READY · APP · Bluetooth · CE · UKCA



Bluetooth®

Compatible with the battery system **METABO/CAS**

The powerful and robust CBL09HD is equipped with the latest COB LED technology and provides up to 4000 lumens, which the makes a all-round universal work beacon for the user more demanding professional.
Compatible with METABO/CAS 18V batteries, in alternative can be used with PSCB18-power supply EU for direct power providing unlimited availability of light.
CBL09HD also has an internal backup battery that provides up to 2.5 hours more at 400 lumens.
With the easy-to-use BLUETOOTH control app, you have the ability to control on/off and control up to four working lights via one device mobile.
Built-in dimmer function allows you to adjust the light output in five different levels. Integrated power bank with USB socket for charging mobile devices.
Equipped with an integrated carrying handle.
It can be mounted on a stand CEMBRE TRCB1.
The work light is supplied without battery, it can be supplied on request and available as an accessory (see page 227)



Portable lighthouse for medium environments CBL09HD

Main Features

Type	Lumen	Duration with CB1852L Battery at Intensity Max / Min	Compatible with Batteries METABO /CAS	Bluetooth	Powered with Type (available on request)	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Body Material	Lamp Material	Dimensions mm	Weight kg
CBL09HD	*4000*	*3 / 31 h*	*Yes*	*Yes*	*CB1820L / CB1852L PSCB18-EU*	*IP65*	*IK07*	*-10/+40*	*AL*	*PC*	*263 x 230 x 119*	*2.35*

CBLIGHT HD

portable lighthouse for large environments

CBL10HD

The powerful and robust CBL10HD is equipped with the latest COB LED technology and provides up to 10,000 lumens, which the makes a all-round universal work beacon for the user more demanding professional.
Compatible with METABO/CAS 18V batteries, in alternative can be used with PSCB18-power supply EU for direct power providing unlimited availability of light.

CBL10HD also has an internal back-up battery that provides up to 1 hour more at 1,000 lumens.
With the easy-to-use BLUETOOTH control app, you have the ability to control on/off and control up to four working lights via one device mobile.
Built-in dimmer function allows you to adjust the light output in five different levels. Integrated power bank with USB socket for charging mobile devices.
Equipped with an integrated carrying handle.

It can be mounted on a stand CEMBRE TRCB1.
The work light is supplied without battery, it can be supplied on request and available as an accessory (see page 227)





Bluetooth®

Compatible with the battery system **METABO/CAS**

Portable lighthouse for large environments CBL10HD

Main Features

Type	Lumen	Duration with CB1852L Battery at Intensity Max / Min	Compatible with Batteries METABO /CAS	Bluetooth	Powered with Type (available on request)	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Body Material	Lamp Material	Dimensions mm	Weight kg
CBL10HD	*10.000*	*1.25 / 12 h*	*Yes*	*Yes*	*CB1820L / CB1852L PSCB18-EU*	*IP65*	*IK07*	*-10 /+40*	*AL*	*PC*	*304 x 292 x 131*	*3.72*

CBLIGHT HD

360 degree portable light

CBL11HD

CBL11HD provides scattered and uniform light at 360 degrees up to 10,000 lumen which is ideal for the professional requiring lighting that is powerful and efficient for the entire working area. It is ideal for any type of repair, painting or construction work.
Compact design with carrying handle makes it extremely handy and easy to move.

Switch lighting 360degree/180.
Compatible with METABO/CAS 18V batteries, in alternative can be used with PSCB18-power supply EU for direct power providing unlimited availability of light.
CBL11HD also has an internal back-up battery that provides up to 50 minutes more at 1,000 lumens.
With the easy-to-use BLUETOOTH control app, you have the possibility to control on/off and adjust the light output via a mobile device.
Built-in dimmer function allows you to adjust the light output in five different levels. Integrated power bank with USB socket for charging mobile devices.
Equipped with an integrated carrying handle.
It can be mounted on a stand CEMBRE TRCB1.

The work light is supplied without battery, it can be supplied on request and available as an accessory (see page 227)





Bluetooth®

Compatible with the battery system **METABO/CAS**

360 degree portable light CBL11HD

Main Features

Type	Lumen	Duration with CB1852L Battery at Intensity Max / Min	Compatible with Batteries METABO /CAS	Bluetooth	Powered with Type (available on request)	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Body Material	Lamp Material	Dimensions mm	Weight kg
CBL11HD	*10.000*	*1 / 22 h*	*Si*	*Si*	*CB1820L / CB1852L PSCB18-EU*	*IP65*	*IK07*	*-10 /+40*	*AL*	*PC*	*395 x 200 x 212*	*3.7*

CBL12HD

CBLIGHT HD

tower lite

5000 LUMEN | IP30 | DIMMER | DURATION MAX/MIN 2/4.5h | CE | UKCA



CBL12HD is a tripod with two integrated projectors capable of providing up to 5000 lumens.
Equipped with flexible and rotatable 360° projectors, the lights can be positioned in different directions to get the angle of desired lighting, providing a perfect condition of lighting for every working need.
It is extensible up to 2 meters and has 2 light levels (50-100%).

Compatible with METABO/CAS 18V batteries, in alternative can be used with PSCB18- EU power supply for direct power providing unlimited availability of light.
Equipped with integrated handle and fast bending system, TOWER LITE is compact, lightweight and easy to carry.
The work light is supplied without battery, it can be supplied on request and available as an accessory (see page 227)

CAS CORDLESS ALLIANCE SYSTEM

Compatible with the battery system **METABO/CAS**





Tower lite CBL12HD

Main Features

Type	Lumen	Duration with CB1852L Battery at Intensity Max / Min	Compatible with Batteries METABO /CAS	Bluetooth	Powered with Type (available on request)	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Body Material	Lamp Material	Dimensions mm	Weight kg
CBL12HD	*5.000*	*2 / 4.5 h*	*Yes*	*No*	*CB1852L, PSCB18-EU*	*IP30*	*IK07*	*-10 / +40*	*AL*	*PC*	*121 x 153 x 892*	*5.2*

TRCB1

CBLIGHT HD

tripod



The TRCB1 tripod is extendable by yourself 1.35 m up to a maximum of 3 m, and offers
maximum flexibility to position the CBLIGHT HD lights at the desired height.
When mounted on the tripod, the light can be tilted as desired to provide the optimal beam angle.

Its robust structure makes it safe even when it is fully extended.
Comes with anchor points which offer greater stability if the tripod is exposed to strong wind or you located on an uneven surface.

Tripod TRCB1

Main Features

Type	Suitable for Lamp Type	Maximum load kg	Weight kg
TRCB1	*CBL09HD CBL10HD CBL11HD*	*10*	*6*





CBLIGHT HD

power supply



Power supply for CBLIGHT HD

Main Features

Type	Input - Output	Suitable for Lamp Type	Degree of Protection	Degree of Protection Bumps	Operating Temerature Range °C	Dimensions mm	Weight kg
PSCB18-EU	*100-240V AC 50/60Hz - 18V DC 5A*	*CBL08HD CBL09HD CBL10HD CBL11HD CBL12HD*	*IP65*	*IK07*	*-10/+40*	*124 x 83 x 72*	*1.0*

PSCB18-EU

Tool Type	Plug Type	
PSCB18-EU	PLUG EU	with EUROPEAN plug
PSCB18-UK	PLUG UK	with UK plug
PSCB18-USA/CA	PLUG USA CAN	with USA/CANADA plug

Power supply for direct power supply of portable lights of the series CEMBRE CBLIGHT HD.

Power supply compatible only with CBLIGHT-HD, not suitable for cordless tools.

CBLIGHT HD

accessories

ASC55-EU

ASC55-EU, charger
(INPUT 220-240 V / 50-60 Hz;
OUTPUT 12-42 V DC / 3.0 A max.)



CB1820L

CB1820L, battery
Li-Ion 18.0V 2.0Ah



CB1852L

CB1852L, battery
Li-Ion 18.0V 5.2Ah



03.61C



NEW

Battery adapters for CBLIGHT HD
Smart adapters designed to use 18V/20V batteries from other manufacturers on the CEMBRE CBLIGHT HD series work lights.
Each adapter is compatible with the 18V/20V batteries supplied with the most popular brands of power tools.
Simply mount the specific adapter on the work light, connect the battery and you are ready to work.

Type	Suitable for battery type
03.6149C	MILWAUKEE
03.6148C	MAKITA
03.6140C	BOSCH/AMPSHARE
03.6157C	HILTI
03.6142C	DEWALT

MBCB-1

MAGNET BRACKET
Compact and very powerful magnetic bracket designed for flexible mounting and positioning of CBL09HD on any metallic surface.



MBCB-1D

DOUBLE MAGNET BRACKET
Extremely powerful magnetic bracket designed for flexible mounting and positioning of CBL09HD and CBL10HD on any metallic surface.
The bracket has 2 extremely powerful magnets.



SBCB-1

SCAFFOLDING BRACKET
Specially designed to fix CBL09HD and CBL10HD lamps on scaffoldings.
The mount can be attached to any round object Ø40-50 mm.



CEMBRE

SDC-KV

PROFESSIONAL SCREWDRIVERS SDC RANGE

insulated

ERGONOMIC | BI-COMPONENT | ONE HAND | BALANCED | DURABLE | CHROME STEEL | 55-59 HRC

C 1000V EN/IEC - 60900



To ensure quick identification, the type and size of the head are indicated in different colours on the back of the handle.

The heads are made from Chromium Molybdenum steel with a hardness of 55-59 HRC and are hardened with Phosphoric Manganese Acid to increase corrosion resistance; the size of the insulating cover allows it to be inserted into tight spaces.

Each individual screwdriver is tested in accordance with EN 60900



Blade type identification on the back of the handle

The CEMBRE range of insulated screwdrivers have dual compound handgrips and an ergonomic design making them particularly practical and comfortable in the following modes of use:

- **Normal**
- **Fast**
- **Forced**

Soft and durable hand guard

Narrow insulating cover to allow insertion into tight spaces



Chromium Molybdenum steel head with hardness 55-59 HRC and anti-corrosion surface treatment

Ergonomic and shaped hand grip

Coating in dual compound plastic material with soft rubber inserts

Shaped blade for greater resistance and stability



Head type identification codes:

- **White** - Flat head
- **Yellow** - "Phillips" cross head
- **Green** - "Pozidriv" cross head
- **Red** - "Phillips" combination head
- **Blue** - "Pozidriv" combination head
- **Orange** - "Torx" six point star head



Steel tips



Ergonomic handle



Hand guard



Attachment hole

insulated



Flat head screwdrivers

Main Features

Type	Head Dimensions mm		Blade Length mm	Total Length mm	Weight g
	Width	Thickness			
SDC3X100-KV	3	0,5	100	185	32
SDC3.5X100-KV	3,5	0,6	100	185	35
SDC4X100-KV	4	0,8	100	205	58
SDC5.5X125-KV	5,5	1,0	125	230	78
SDC6.5X150-KV	6,5	1,2	150	265	115
SDC8X175-KV	8	1,2	175	298	181



PH Phillips cross head screwdrivers

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDC0PH-KV	PH0	60	145	29
SDC1PH-KV	PH1	80	188	64
SDC2PH-KV	PH2	100	215	94



PZ Pozidriv cross head screwdrivers

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDC0PZ-KV	PZ0	60	145	29
SDC1PZ-KV	PZ1	80	188	64
SDC2PZ-KV	PZ2	100	215	94



PHSL Phillips combination head screwdrivers

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDC1PH-SL-KV	PH1 SL	80	188	65
SDC2PH-SL-KV	PH2 SL	100	215	94



PZSL Pozidriv combination head screwdrivers

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDC1PZ-SL-KV	PZ1 SL	80	188	65
SDC2PZ-SL-KV	PZ2 SL	100	215	94



TORX six point star head screwdrivers

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDC10TX-KV	TX10	80	185	60
SDC15TX-KV	TX15	80	185	63
SDC20TX-KV	TX20	100	205	68
SDC25TX-KV	TX25	100	205	73
SDC30TX-KV	TX30	115	230	100
SDC40TX-KV	TX40	130	245	118

PROFESSIONAL SCREWDRIVERS SDC RANGE

for various uses

Flat head screwdriver with mains tester

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Head Size	Length		
SDC3X60-PD	3	65	153	34

A fully functioning flat head screwdriver with a completely transparent handle allowing visibility of the indicator from any angle, ensuring high safety.

- Transparent handle
- High quality head
- Ergonomic design
- Pocket clip with spring



Screwdriver with 45° angled flat head

Main Features

Type	Head Dimensions mm		Blade Length mm	Total Length mm	Weight g
	Width	Thickness			
SDC2.5X55B	2,5	0,55	55	143	28
SDC3.5X55B	3,5	0,55	55	143	29

Screwdriver with angled head, ideal for terminals, sensors and actuators.



Flat head stubby screwdriver

Main Features

Type	Head Dimensions mm		Blade Length mm	Total Length mm	Weight g
	Width	Thickness			
SDCS2.5X55	5,5	2,5	25	75	37



Phillips cross head stubby screwdriver PH

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Blade Length		
SDCS1PH	PH1	25	75	38



Set of 7 Screwdrivers - KSDC7-KV

Main Features

Set consists of: Type	Head Dimensions mm		Total Length mm	Weight g
	Size	Length		
SDC3X100-KV	3	100	185	32
SDC4X100-KV	4	100	205	58
SDC5.5X125-KV	5,5	125	230	78
SDC6.5X150-KV	6,5	150	265	115
SDC0PH-KV	PH0	60	145	29
SDC1PH-KV	PH1	80	188	64
SDC2PH-KV	PH2	100	215	94



PROFESSIONAL HEX SOCKET SCREWDRIVERS

with reduced shank diameter

SDC



Deep point socket



Hexagonal lever point

Reduced shank diameter



Hex socket screwdrivers with reduced shank diameter

Main Features

Type	Head Dimensions mm	Blade Length mm	Total Length mm	Weight g
SDC7X125-HEX	*7*	*125*	*243*	*97*
SDC8X125-HEX	*8*	*125*	*243*	*114*
SDC9X125-HEX	*9*	*125*	*243*	*132*
SDC10X125-HEX	*10*	*125*	*243*	*152*

- Ergonomic handgrip for comfortable use without strain.
- Reduced external shank diameter allows the tool to be used in narrow spaces (relays and switches).
- Deep point socket ideal for long threads.
- Hexagonal lever point facilitates extra force without strain.
- Standards: ISO 6750 - ISO 2236



UNIVERSAL KEY UKC4

for switchboards

UKC



Universal key for switchboards UKC4

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Height	
UKC4	*72*	*72*	*14*	*92*

Universal key for switchboards
Equipped with:
Triangular shape 7-8 mm
Double notch 3-5 mm
Square shape 5-6, 7-8 mm
Screwdriver bit and hexagonal holder

UPC-KV
TR-KV
SPC-KV
WPC-KV

PROFESSIONAL PLIERS

insulated

ERGONOMIC · BI-COMPONENT · ONE HAND · BALANCED · DURABLE · CHROME STEEL

1000V
EN/IEC - 60900

As for all CEMBRE insulated tools, each individual pair of pliers is tested in accordance with EN 60900

The design of CEMBRE insulated pliers and the use of dual-compound plastic material in the handle cover optimise the distribution of the force over the entire surface in contact with the palm of the hand.

This leads to:
- A reduction of the effort applied
- A greater transmitted force
- Safer grip
- Prevention of injury to the fingers between the handles





Gripping and cutting edges

Wide and safe hand guard



Soft articulated joint



Ergonomic hand grip



PROFESSIONAL PLIERS

insulated

UPC-KV
TR-KV
SPC-KV
WPC-KV



UPC Universal pliers

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
UPC180-KV	180	27	11	287
UPC200-KV	200	32	11,6	381

TR Nippers

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
TR160-KV	160	19	10	229

TR Heavy duty nippers

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
TR200-KV	200	30	13	306

SPC Straight nose pliers

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
SPC200-KV	200	21,5	10,7	257

SPC 45° nose pliers

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
SPC200B-KV	200	21,5	10,7	261

WPC Pipe grips

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
WPC250-KV	250	29	7,7	380

WSC Wire stripper

Main Features

Type	Total Length mm	Head Dimensions mm		Weight g
		Width	Thickness	
WSC180-KV	180	21,7	9,5	240

For insulated cables from 0,75 to 6 mm^2

ERGONOMIC ONE HAND BALANCED DURABLE

CEMBRE offers a range of tool holders designed to provide professional users with practical and neat ways to optimise their time and working conditions.

Bag CTSB1

Main Features

Type	Dimensions mm			Weight kg
	Length	Width	Height	
CTSB1	*420*	*250*	*340*	*3*

Practical tool bag in robust fabric, with 2 separate compartments to neatly arrange hand tools. Additional equipment may be accommodated via handy hooks and external pockets while documents are safely stored inside. A shoulder strap and sturdy metal handle make it easy to carry.



Leave your footprint!

Logo max dimensions

Length mm	Height mm
100	100



KIT-CTSB1-1
KIT-CTSB1-3

bag kit CTSB1-1



Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-CTSB1-1	*420*	*250*	*340*	*5,6*

CTSB1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	FLS3	measuring tape 3m
1	KAK9	allen keys
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

bag kit KIT-CTSB1-3



Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-CTSB1-3	*420*	*250*	*340*	*6,8*

CTSB1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	TR160-KV	nippers 160 mm
1	PTS4	wire stripper 0.2-6 mm^2
1	FLS5	measuring tape 5 m
1	KAK9	allen keys
1	KRK4	spanners with ratchet
1	UKC4	universal key
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

ERGONOMIC ONE HAND BALANCED DURABLE

Backpack CTBP1

Main Features

Type	Dimensions mm			Weight kg
	Length	Width	Height	
CTBP1	*360*	*110*	*540*	*3,1*

Practical tool backpack in sturdy fabric, with reinforced non-slip rubber bottom. Equipped with internal and external pockets to arrange the manual tools in a rational way, and a PC pocket. Thanks to the practical front opening and the different compartments, it is possible to insert documents and different equipment. The sturdy rubber handle and comfortable padded shoulder straps make it easy to carry.











Your logo here

Leave your footprint!

Logo max dimensions

Length mm	Height mm
60	80



KIT-CTBP1-1

soft line - backpack kit



Backpack kit CTBP1-1

Main Features

Type	Dimensions mm			Peso Kit kg
	Length	Width	Height	
KIT-CTBP1-1	*360*	*110*	*540*	*4,1*

CTBP1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X60-PD**	mains tester
1	**SDC3X100-KV**	screwdriver 3x100
1	**SDC3.5X100-KV**	screwdriver 3,5x100
1	**SDC4X100-KV**	screwdriver 4x100
1	**SDC5.5X125-KV**	screwdriver 5,5x125
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2
1	**UPC180-KV**	pliers 180 mm
1	**HKS6**	pocket hacksaw

ABS ERGONOMIC ONE HAND BALANCED DURABLE

ABS case VAL-GPTP

Main Features

Type	Dimensions mm			Weight kg
	Length	Width	Height	
VAL-GPTP	*453*	*332*	*190*	*4,0*

Suitcase made of high thickness thermoformed ABS, complete with two tool panels with elastic bands for containing any tool and internal document / tablet pocket. Thermoformed bottom with adjustable dividers. Sturdy aluminum profile with 2 side locks with key.
Lid equipped with a stop to limit 90 ° opening and ergonomic handle.











KIT-VAL-GPTP-1
KIT-VAL-GPTP-2



ABS case kit VAL-GPTP-1

Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-VAL-GPTP-1	*453*	*332*	*190*	*6,6*

Case VAL-GPTP equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	FLS3	measuring tape 3m
1	KAK9	allen keys
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer



ABS case kit VAL-GPTP-2

Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-VAL-GPTP-2	*453*	*332*	*190*	*8,2*

Case VAL-GPTP equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	TR160-KV	nippers 160 mm
1	PTS4	wire stripper 0.2-6 mm^2
1	FLS5	measuring tape 5 m
1	KAK9	allen keys
1	KRK4	spanners with ratchet
1	UKC4	universal key
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

AL ERGONOMIC ONE HAND BALANCED DURABLE

Case VAL-GPTA-N

Main Features

Type	Dimensions mm			Weight kg
	Length	Width	Height	
VAL-GPTA-N	*470*	*360*	*185*	*4,8*

Aluminium case containing two panels with elastic tool holders and an internal pocket for holding documents or a tablet. Thermoformed base with modular dividers. Fitted with an ergonomic carrying handle and a hinged lid with stop to limit the opening to 90°.
Equipped with shoulder strap.







KIT-VAL-GPTA-1
KIT-VAL-GPTA-2



Case Kit VAL-GPTA-1

Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-VAL-GPTA-1	*470*	*360*	*185*	*7,4*

Case VAL-GPTA-N equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	FLS3	measuring tape 3m
1	KAK9	allen keys
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer



Case Kit VAL-GPTA-2

Main Features

Type	Dimensions mm			Kit Weight kg
	Length	Width	Height	
KIT-VAL-GPTA-2	*470*	*360*	*185*	*9,6*

Case VAL-GPTA-N equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	TR160-KV	nippers 160 mm
1	PTS4	wire stripper 0.2-6 mm^2
1	FLS5	measuring tape 5 m
1	KAK9	allen keys
1	KRK4	spanners with ratchet
1	UKC4	universal key
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

ERGONOMIC ONE HAND BALANCED DURABLE

Trolley TRL02

Main Features

Type	Dimensions mm				Weight kg
	Length	Width	Closed handle height	Open handle height	
TRL02	*480*	*250*	*400*	*1023*	*4,3*

Practical trolley mounted tool bag made of robust fabric, with 2 separate internal compartments to neatly arrange hand tools.
Easy front opening access and handy hooks, external pockets providing additional space and a document pouch on the inside of the lid.









Leave your footprint!

Logo max dimensions

Length mm	Height mm
200	120



KIT-TRL02-1
KIT-TRL02-2



Trolley Kit TRL02-1

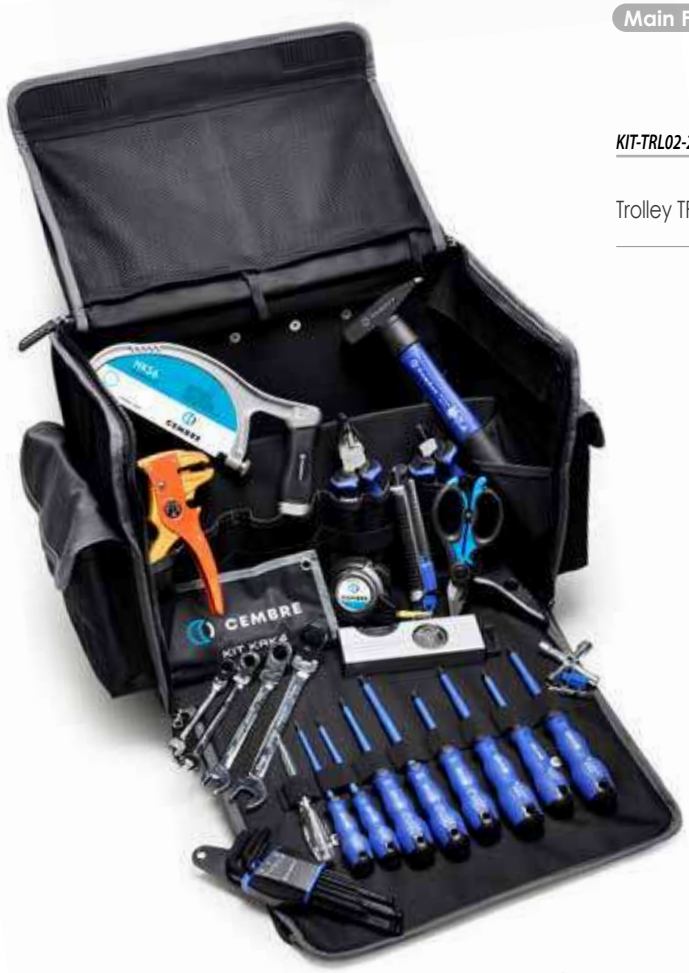
Main Features

Type	Dimensions mm				Weight Kit kg
	Length	Width	Closed handle height	Open handle height	
KIT-TRL02-1	*480*	*250*	*400*	*1023*	*6,8*

Trolley TRL02 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	FLS3	measuring tape 3m
1	KAK9	allen keys
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer



Trolley Kit TRL02-2

Main Features

Type	Dimensions mm				Weight Kit kg
	Length	Width	Closed handle height	Open handle height	
KIT-TRL02-2	*480*	*250*	*400*	*1023*	*8,0*

Trolley TRL02 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3X100-KV	screwdriver 3x100
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	SDC1PZ-KV	screwdriver pz1
1	SDC2PZ-KV	screwdriver pz2
1	UPC180-KV	pliers 180 mm
1	TR160-KV	nippers 160 mm
1	PTS4	wire stripper 0.2-6 mm^2
1	FLS5	measuring tape 5 m
1	KAK9	allen keys
1	KRK4	spanners with ratchet
1	UKC4	universal key
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

VAL-GPT
KIT-VAL-GPT

PROFESSIONAL TOOL HOLDERS

hard line

ERGONOMIC ONE HAND BALANCED DURABLE

Chest VAL-GPT

Main Features

Type	Dimensions mm			Weight kg
	Length	Width	Height	
VAL-GPT	*557*	*230*	*245*	*3,7*

Plastic tool chest with small parts holder on the lid; Removable internal tool tray. Metal latches; Aluminium handle and padlock facility.
Sufficiently robust to be used as a step when closed.
Stackable with other VAL GPT tool chests.



Chest Kit VAL-GPT-1

Main Features

Type	Dimensions mm			Weight Kit kg
	Length	Width	Height	
KIT-VAL-GPT-1	*557*	*230*	*245*	*5,48*

VAL GPT equipped with selection of tools



Tools contained in the kit:

Qty	Type	Description
1	SC5X	scissors SC5X
1	SDC3X60-PD	mains tester
1	SDC3.5X100-KV	screwdriver 3,5x100
1	SDC4X100-KV	screwdriver 4x100
1	SDC5.5X125-KV	screwdriver 5,5x125
1	SDC6.5X150-KV	screwdriver 6,5x150
1	SDC1PH-KV	screwdriver ph1
1	SDC2PH-KV	screwdriver ph2
1	TR160KV	nippers 160mm
1	FLS3	measuring tape 3m
1	HB18	retractable cutter
1	HKS6	pocket hacksaw
1	LVL150	level 150 mm
1	HMR300	hammer

CTBB1
KIT-CTBB1



Pouch CTBB1

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Height	
CTBB1	*230*	*150*	*50*	*84*

Made from soft and strong fabric, equipped with a fast stud belt fastening. It has handy preformed compartments for holding pliers, scissors and screwdrivers.

Leave your footprint!

Logo max dimensions

Length mm	Height mm
35	35



With SC5X scissor

Robust-A



Pouch Kit CTBB1-1

Main Features

Type	Dimensions mm			Weight Kit g
	Length	Width	Height	
KIT-CTBB1-1	*230*	*150*	*50*	*477*

CTBB1 equipped with selection of tools.

Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X100-KV**	screwdriver 3x100
1	**SDC3.5X100-KV**	screwdriver 3,5x100
1	**SDC4X100-KV**	screwdriver 4x100
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2

With SC6X scissor

Agil-E



Pouch Kit CTBB1-5

Main Features

Type	Dimensions mm			Weight Kit g
	Length	Width	Height	
KIT-CTBB1-5	*230*	*150*	*50*	*442*

CTBB1 equipped with selection of tools.

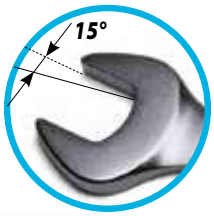
Tools contained in the kit:

Qty	Type	Description
1	**SC5X**	scissors SC5X
1	**SDC3X100-KV**	screwdriver 3x100
1	**SDC3.5X100-KV**	screwdriver 3,5x100
1	**SDC4X100-KV**	screwdriver 4x100
1	**SDC1PH-KV**	screwdriver ph1
1	**SDC2PH-KV**	screwdriver ph2

PROFESSIONAL SPANNERS

in Chromium-vanadium steel

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL



CW Combination Spanners

Main Features

Type	⬡ mm	Open width mm	Ring width mm	Open thickness mm	Ring thickness mm	Total Length mm	Weight g
CW60	6	16	10	4	5	110	15
CW70	7	17	11	4	5	120	19
CW80	8	19	13	4	6	130	24
CW100	10	23	16	5	7	150	35
CW110	11	26	17	5	7	160	47
CW130	13	30	20	6	8	180	68
CW140	14	32	21	6	9	190	79
CW150	15	34	23	6	10	200	89
CW170	17	37	26	7	10	220	124
CW180	18	39	27	7	11	230	149
CW190	19	41	28	7	11	240	166
CW220	22	47	32	8	13	270	227
CW240	24	51	35	8	14	290	293
CW270	27	56	39	9	15	320	374
CW300	30	62	43	10	15	350	475
CW320	32	66	46	10	16	370	580



- Chromium-vanadium steel tools
- Satin chrome finish.
- Ring head with 12 grip points, offset with respect to the handle to enable use in narrow spaces
- Open head tilted at 15° to reduce effort applied
- Standards: UNI ISO 3318 - ISO 7738 - DIN 3113



ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL

KCW12 Combination Spanner Set

KCW12



Main Features

Type	Dimensions kit mm Length	Width	Height	Weight g
KCW12	460	362	65	1140

Set includes:

KCW12:
CW60 - CW70 - CW80 - CW100 - CW110
CW130 - CW140 - CW150 - CW170 - CW180
CW190 - CW220

Type	mm
CW60	6
CW70	7
CW80	8
CW100	10
CW110	11
CW130	13
CW140	14
CW150	15
CW170	17
CW180	18
CW190	19
CW220	22

KCW16 Combination Spanner Set

KCW16



Main Features

Type	Dimensions kit mm Length	Width	Height	Weight g
KCW16	712	480	80	3250

Set includes:

KCW16:
CW60 - CW70 - CW80 - CW100 - CW110
CW130 - CW140 - CW150 - CW170 - CW180
CW190 - CW220 - CW240 - CW270 - CW300 - CW320

Type	mm
CW60	6
CW70	7
CW80	8
CW100	10
CW110	11
CW130	13
CW140	14
CW150	15
CW170	17
CW180	18
CW190	19
CW220	22
CW240	24
CW270	27
CW300	30
CW320	32

KRK
KRS

PROFESSIONAL SPANNERS

in Chromium-vanadium steel

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL



Combination spanners with jointed ratchet head KRK4

Main Features

Type	Dimensions kit mm			Weight g
	Length	Width	Height	
KRK4	*335*	*190*	*18*	*390*

- Sizes included: 8-10-13-17 mm
- Chromium-vanadium steel
- 180° swivel head
- Ratchet mechanism with 72 teeth and recovery angle of 5°.

Socket set ¼" drive KRS47

Main Features

Type	Dimensions kit mm			Weight g
	Length	Width	Height	
KRS47	*285*	*136*	*44*	*1655*

- Standards: UNI ISO 3315 - DIN 3122



Metal case contains:

Qty	description
1	reversible ratchet wrench with socket retention system
2	extensions
1	articulated joint
1	T bar with sliding handle
1	screwdriver style holder
13	sockets 4 to 14 mm
4	extended sockets 8 to 13 mm
3	screwdriver sockets 4 to 6.5 mm
3	screwdriver sockets PH1, PH2, PH3
3	screwdriver sockets PZ1, PZ2, PZ3
6	hex socket spanners 3 to 8 mm
3	hex Allen keys 1.5 to 2.5 mm
6	torx socket keys T10 to T40

PROFESSIONAL TORQUE WRENCHES

in Chromium-vanadium steel

TWC

CEMBRE professional reversible torque wrench range TWC will provide optimum torque setting when the threaded fastenings are paired with the same size sockets.
Correct tightening of threaded fastenings prevents:
- thread damage in case of high loading
- unintentional loosening in case of low loading

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL



TWC10.50-14 Torque Wrench

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Head Width	
TWC10.50-14	*328*	*35*	*28*	*660*

- Adjustment range Nm: 10-50
- Drive size in.: 1/4



TWC20.100-38 Torque Wrench

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Head Width	
TWC20.100-38	*435*	*45*	*35*	*1300*

- Adjustment range Nm: 20-100
- Drive size in.: 3/8



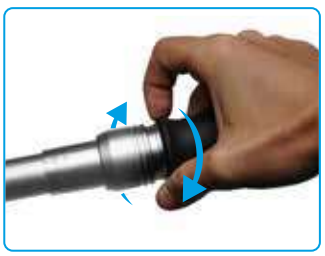
TWC40.200-12 Torque Wrench

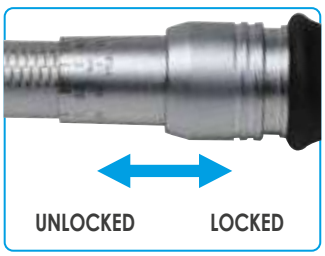
Main Features

Type	Dimensions mm			Weight g
	Length	Width	Head Width	
TWC40.200-12	*510*	*45*	*40*	*1506*

- Adjustment range Nm: 40-200
- Drive size in.: 1/2











CEMBRE

DSC KA CRH EBC STBC

PROFESSIONAL SOCKETS & DRIVES

in Chromium-vanadium steel

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL

Deep hexagonal sockets ½" drive DSC



Main Features

Type	mm	Dimensions mm Length	Ø Ext. hexagon	Ø Ext. drive	Weight g
DSC12-170L	17	77	23,8	22	120
DSC12-190L	19	77	25,7	24	134
DSC12-240L	24	77	31,8	27,8	210
DSC12-300L	30	77	39,9	34	300
DSC12-320L	32	77	41,8	35,8	336

- Chromium-vanadium steel • Satin chrome finish
- Standards: UNI ISO 2725 - DIN 3124

Adapters KA



Main Features

Type	Dimensions mm Length	☐ Female	■ Male	Ø Female	Weight g
KA14-38	26,5	1/4	3/8	13,9	21
KA38-14	26,3	3/8	1/4	18,8	25
KA38-12	36,1	3/8	1/2	19,2	52
KA12-38	35,99	1/2	3/8	21,7	52

- Chromium-vanadium steel • Satin chrome finish
- Standards: UNI ISO 3316 - DIN 3123

½" Reversible ratchet wrench CRH12



BI-COMPONENT

Main Features

Type	Dimensions mm Length	Height	Head Width	Weight g
CRH12	260	38	40	547

- Mechanism with 72 teeth and a recovery angle of 5°
- Reversible ratchet system • Ergonomic handle in dual-compound material
- Satin chrome finish • Chromium-vanadium steel
- Standards: UNI ISO 3315 - DIN 3122

½" Drive extension 250 mm long EBC12-250



Main Features

Type	Length	Weight g
EBC12-250	250	441

- Socket quick release system • Chromium-vanadium steel
- Satin chrome finish
- Standards: UNI ISO 3316 - DIN 3123

½" Drive T bar with sliding handle STBC12-300



Main Features

Type	Dimensions mm Length	Height	Head Width	Weight g
STBC12-300	300	25	24	365

- Chromium-vanadium steel • Satin chrome finish
- Standards: UNI ISO 3315 - DIN 3122

PROFESSIONAL SPANNERS & SOCKETS

in Chromium-vanadium steel

AWC

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL



Adjustable wrench AWC300

Main Features

Type	Dimensions mm			Weight g
	Max Opening	Length	Width	
AWC300	*34*	*300*	*-*	*620*

- Chromium-vanadium steel wrench
- Phosphate finish
- Equipped with rapid adjustment and gap size measurement scale
- Wide-opening jaws for greater adaptability

PROFESSIONAL SPANNERS & SOCKETS

in Chromium-vanadium steel

KAK

ERGONOMIC · ONE HAND · BALANCED · DURABLE · CHROMIUM VANADIUM STEEL



Set of 9 male Allen keys KAK9

Main Features

Type	Dimensions kit mm			Weight g
	Length	Width	Height	
KAK9	*300*	*100*	*31*	*430*

- Sizes included: 1.5-2-2.5-3-4-5-6-8-10 mm
- Chromium-vanadium steel
- Long reach type
- Spherical head for use up to 30°
- Equipped with carrying case

Tool dimensions

A/F (mm)	(mm)	(mm)
1,5	78	14
2	84	16
2,5	92	18
3	102	20
4	110	24
5	123	28
6	144	32
8	163	36
10	178	40

HMR BLC CPC CPW

PROFESSIONAL HAMMMERS & REMOVAL TOOLS

for various uses

Hammer HMR300

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Height	
HMR300	300	104	23	300



300 g bench hammer with patented anti-vibration triple compound handle.
Aluminium alloy 6082 T6 P-Al Si 1 Mg Mn head.
External surface of the handle in Polyamide A2800.
Thermoplastic rubber grip.
Complete with handle sleeve.

Hammer HMR500W

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Height	
HMR500W	320	106	27	500



500 g bench hammer with Ash handle.
Complete with handle sleeve.

Chisel with hand protector BLC250

Main Features

Type	Dimensions mm				Weight g
	Total length	Blade width	Ø shaft	Ø handle	
BLC250	250	23	16	34	492



23 mm Chromium-vanadium steel blade with sturdy thermoplastic hand protector

Centre Punch CPC100-8

Main Features

Type	Dimensions mm			Weight g
	Length	Tip	Hexagon	
CPC100-8	100	3	8	54



Chromium-vanadium steel with Chrome finish

Crowbar CPW500

Main Features

Type	Dimensions mm		Weight g
	Length	Ø Hex. square	
CPW500	500	16	1183



Hexagonal section
C40 steel



Special blade and safety lock

Retractable Cutter HB18

Main Features

Type	Dimensions mm			Weight g
	Length	Height	Width	
HB18	*170*	*32*	*17*	*223*

Replaceable blade, adjustable from 18 mm and internal autoloader with 5 blades. Steel blade, metal handle, with soft Rubber anti-slip coating.
Safety lock for blade.



Hacksaw HKS12

Main Features

Type	Dimensions mm			Weight g
	Length	Height	Width	
HKS12	*400*	*140*	*32*	*600*

Hacksaw with 300 mm blade, dual-compound plastic frame, with soft anti-slip handle for a firm and secure grip.
Tensioner in the handle.



Hacksaw HKS6

Main Features

Type	Dimensions mm			Weight g
	Length	Height	Width	
HKS6	*270*	*115*	*20*	*215*

Hacksaw with 150 mm blade, metal frame, with 6 adjustments of the angle of the blade.
Soft Rubber anti-slip handle.



Blade BL12HKS

BL12HKS Spare blade for HKS12 (5 pieces)

Blade BL6HKS

BL6HKS Spare blade for HKS6 (10 pieces)



Files SFC200 - RFC200

Main Features

Second-cut square file	File Section mm	File Length mm	handle Length mm	Total Length mm	Weight g
SFC200	*8*	*200*	*110*	*310*	*108*

Second-cut round file	File diam. mm	File Length mm	handle Length mm	Total Length mm	Weight g
RFC200	*8,3*	*200*	*110*	*310*	*113*

Carbide steel
Hardness 62±2 HRC

Digital Multimeter CM02

Main Features

Type	Dimensions mm			Weight g
	Length	Width	Height	
CM02	*190*	*94*	*46*	*400*



TRMS

For measuring:

- AC Current and Voltage, True-rms for accurate check of non-linear signals.
- AC/DC Voltage up to 750V~ and 1.000V=
- AC/DC Current up to 10A
- Resistance
- Continuity
- Capacitance
- Frequency

Special Functions

- Data Hold
- Diode Test
- Transistor hFE Test
- Continuity Buzzer
- Temperature Probe (supplied)
- Auto Power Off

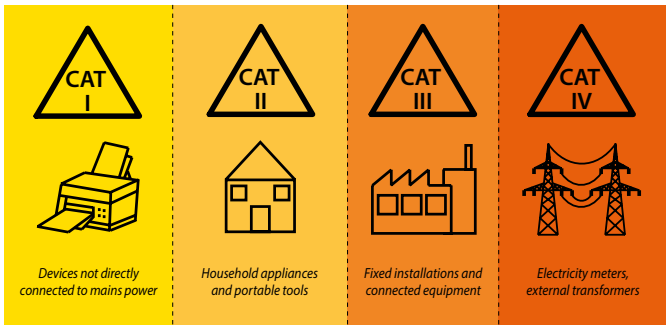
Standards: EN 61326-1: 2006 & CE marking

CM02 Specification

Basic Function	Range	Best Accurancy
DC Voltage	400mV/4V/40V/400V/1000V	±(0,5%+4)
AC Voltage	400mV/4V/40V/400V/1000V	±(0,8%+10)
DC Current	400µA/4000µA/40mA/400mA/10A	±(1%+10)
AC Current	400µA/4000µA/40mA/400mA/10A	±(1,5%+10)
Resistance	400Ω/4KΩ/40KΩ/400KΩ/4MΩ/40MΩ	±(0,8%+4)
Capacitance	10nF	±(5%+20)
	100Nf/1µF/10µF/100µF	±(3,5%+8)
	1mf/10mF/100mF	±(5%+10)
Frequency	100/1000/10k/100k/1M/30Mhz	±(0,5%+10)
Temperature	(-20°-1.000)°C	±(1,0%+5)



Overvoltage category CAT IV - 600V





Measuring Tapes FLS3 - FLS5

Main Features

Type	Tape dimensions		Casing Dimensions mm	Weight g
	Length	Width		
FLS3	3 m	16 mm	71x62x33	166
FLS5	5 m	19 mm	83x71x36	252

Professional measuring tapes with ergonomic hand grip, metal casing and rubber inserts. Tape coating in Polyamide to ensures durability, anti-friction and resistance to corrosion; with integrated magnetic hook. Automatic lock and dual locking button.

Spirit Levels LVL150 – LVL200 – LVL400

Main Features

Type	Dimensions mm		No. of tubes	Weight g
	Length	Width		
LVL150	150	22	2	105
LVL200	200	22	2	157
LVL400	400	22	2	248

Made from robust Aluminium profile, with precision 0.5 to 1 mm. Shock resistant tubes and high absorption protective caps.



Conical stepped drill-bit SC-PG1

Main Features

Type	Hole Ø range mm	Steps		Drill size mm		Weight g
		N°	Height mm	Length	Stem Ø	
SC-PG1	*6 - 37*	*12*	*2*	*100*	*10*	*293*

- Point geometry according to DIN 1412 C
- No pre-drilling
- Step angle 90



SC-PG1 - Hole sizes:

Step	Hole Ø mm	Clearance for PG thread
1	**6,0**	-
2	**9,0**	-
3	**12,5**	7
4	**15,2**	9
5	**18,6**	11
6	**20,4**	13.5
7	**22,5**	16
8	**26,0**	-
9	**28,3**	21
10	**30,5**	-
11	**34,0**	-
12	**37,0**	29

Conical stepped drill-bits - General characteristics

- Spiral shape facilitates quiet operation, precision of cut and removal of swarf
- Cutting capability unaffected by prolonged use
- Suitable for use on Ferrous metals and Thermoplastic materials up to 4 mm thickness
- Material: Cubic Boron Nitride (CBN)
- Corner point 118°
- Polished surface

Conical stepped drill-bit SC-M1

Main Features

Type	Hole Ø range mm	Steps		Drill size mm		Weight g
		N°	Height mm	Length	Stem Ø	
SC-M1	*6,5 - 40,5*	*11*	*2*	*96*	*10*	*303*

- Point geometry according to DIN 1412 C
- No pre-drilling
- Step angle 90



SC-M1 - Hole sizes:

Step	Hole Ø mm	Clearance for Metric thread
1	**6,5**	-
2	**8.5**	-
3	**10,5**	-
4	**12,5**	M12
5	**16,5**	M16
6	**20,5**	M20
7	**25,5**	M25
8	**29.0**	-
9	**32,5**	M32
10	**36,5**	-
11	**40,5**	M40

Conical countersink SK9038

Main Features

Type	Head Dimensions mm		Total Length mm	Weight g
	Length	Ø		
SK9038	*36*	*38*	*148*	*128*



Conical flaring for unalloyed steels, with ergonomic handle in two component material.
- 90° head angle
- 6-edged head
- Maximum diameter of flaring 38 mm

Sets of 19 Spiral Drill-Bits SB19

Main Features

Ideal for STEEL

Type

SB19

High speed, high performance, steel spiral drill-bits.
Cross-wise sharpening allows for good balance, reducing strain during the operation.
Spiral angle: 25-30°
Groove profile: standard
Core: standard
Back angle: 118°
Point geometry: Shape C
Weight: 675 g
Main use: Steel N/mm² <900, Cast iron
Secondary use: Steel N/mm² <1100, Stainless steel, Alluminium, Brass, Bronze.

Type

SB19-TIN

As type SB19 with additional:
TiN coating to increase operating life by 300 - 400%

SB19-TIN



SB19

Spiral Drill-bits SB19:

Spiral Drill-bits SB19-TIN:

ø mm	Length mm	
	Total	Useable
1	34	12
1,5	40	18
2	49	24
2,5	57	30
3	61	33
3,5	70	39
4	75	43
4,5	80	47
5	86	52
5,5	93	57
6	93	57
6,5	101	63
7	109	69
7,5	109	69
8	117	75
8,5	117	75
9	125	81
9,5	125	81
10	133	87

Set of 7 Hammer Drill-Bits SB7-SDS-PLUS

Main Features

Ideal for WALL

Type

SB7-SDS-PLUS

Drill-bits with a strengthened core, to allow optimum force transmission from start to finish.
Made from steel worked at a low temperature to achieve maximum resistance, and created with a spiral structure for efficient waste extraction during opeartion.
Suitable for rock, brick work, concrete, cement, granite, tiles and marble.
Fits all hammer drills with SDS-Plus and Hilti TE 10 double-groove shanks.
Corresponding to standard: ISO 5468-DIN 8039. Weight 752 g.



SB7-SDS-PLUS

Hammer Drill-bits SB7-SDS-PLUS:

Ø mm	Length mm	
	Total	Useable
5	110	50
6	110	50
6	160	100
8	110	50
8	160	100
10	160	100
12	160	100

HYDRAULIC TOOLS AND HEADS



SYMBOL DESCRIPTION

hydraulic tools and heads



Crimping force kN



Double speed action: a rapid approach speed and a slower more powerful speed for crimping or cutting



Openable compression head, ideal for derivations from running conductors



Openable cutting head, ideal for cutting running cables



Tool with a large 42 mm jaw opening, for easier introduction/removal of large size compression terminations and joints



Blades manufactured from high strength special Steel, heat treated to ensure a long service life



Max cutting diameter



Max hole punching diameter



The head can rotate to enable the operator to work in the most comfortable position



Can be operated with one hand



Provided with a maximum pressure valve that allows to check the correct execution of the compressions or the limit switch control of the blades



Manual pressure release button



Ergonomically designed with a sculptured body for operator comfort



Lightweight and balanced tool for greater control



Dual-compound plastic handles.
Greater safety and comfort in handling, thanks to the rubber inserts



Durable moulded body offering high resistance to wear and damage in all operating conditions



CE marking



UKCA marking

SYMBOL DESCRIPTION

hydraulic tools and heads

HEXAGONAL — Hexagonal crimp

RADIAL — Radial crimp

INDENT — Indent crimp

DEEP INDENT — Deep indent crimp

OVAL — Oval crimp

TRAPEZIUM — Trapezium crimp

CIRCULAR — Circular crimp

700 bar — Max operating pressure

ISOLATED — Contains isolated oil

60kV — Hydraulic units provide protection against short circuit when accidentally cutting live L.V. / M.V. cables with nominal voltage up to 60 kV



HT45-E

HYDRAULIC CRIMPING TOOL

50kN | 180° | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | ONE HAND | HEAD OPENING | BALANCED | DURABLE | HEXAGONAL | OVAL | INDENT

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■								
"C" sleeve Connectors			■	■	■	■	■													

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

TECHNICAL FEATURES

Crimping force kN	*50*
Dimensions mm	
Length	*346*
Width	*130*
Weight kg	*2,0*

STORAGE

Type	*VAL-M/M1**
Dimensions mm L x W x H	*446 x 345 x 145*
Weight kg	*2,5*
Supplied with the tool	✓

** Suitable for storage of the tool and dies*





Lightweight and compact, this tool is ideal for the compression of connectors for general applications.
Having the benefit of spring loaded handles, the dies can be advanced using only one hand; therefore leaving the other hand free to position the connector.
For ease of operation and comfort of the operator, the tool head can be fully rotated through 180 degrees.
The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure releasing system can easily be operated at any stage of the compression.

STORAGE

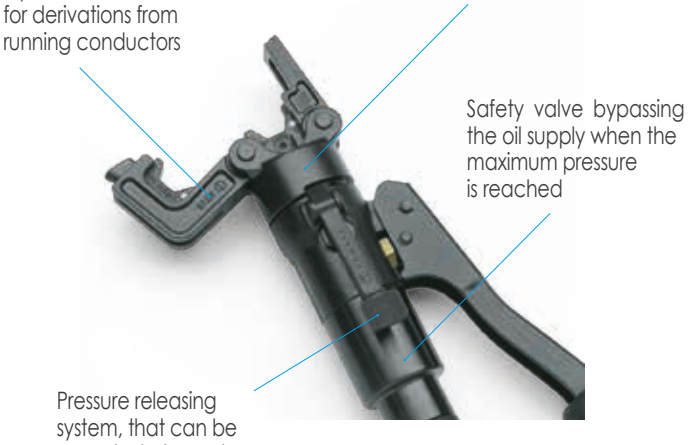
Type	*VAL-75**
Dimensions mm L x W x H	*270 x 80 x 30*
Weight kg	*0,15*
Supplied with the tool	✓

** Suitable for storage 5 sets of dies*





The operator can advance the dies using only one hand, leaving the other hand free to position the connector.



HYDRAULIC CRIMPING TOOL

HT51

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■		■						
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												
H.V. lugs and splices						■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

STORAGE

Type	*VAL-M/M1**
Dimensions mm L x W x H	*446 x 345 x 145*
Weight kg	*2,5*
Supplied with the tool	✓

** Suitable for storage of the tool and dies*



TECHNICAL FEATURES

Crimping force kN	*50*
Dimensions mm	
Length	*380*
Width	*130*
Weight kg	*2,7*

HT51-KV version also available for Power Supply Companies



New design two speed hydraulic tool, lightweight and compact, this tool is ideal for working in confined spaces.
Having the benefit of spring loaded handles, the dies can be advanced using only one hand; therefore leaving the other hand free to position the connector.
For ease of operation and comfort of the operator, the tool head can be fully rotated through 180 degrees.



STORAGE

Type	*VAL-75**
Dimensions mm L x W x H	*270 x 80 x 30*
Weight kg	*0,15*
Supplied with the tool	✓

** Suitable for storage 5 sets of dies*



The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure release system can easily be operated at any stage of the compression.

HT51 COMPRESSION KIT

KIT-HT51-1
KIT-HT51-2
KIT-HT51-MK

general features

KIT-HT51-1

Kit includes:

HT51 Hydraulic tool	
VAL-M/M1 plastic carrying case	
VAL-75 plastic case for dies	
8 die sets:	
ME5-50	Hexagonal crimp for low voltage terminals and through connectors from 25 to 185 mm² A-M family
ME7-50	
ME10-50	
ME14-50	
ME19-50	
ME24-50	
ME30-50	
ME37-50	

KIT-HT51-2

Kit includes:

HT51 Hydraulic tool		
VAL-M/M1 plastic carrying case		
VAL-75 plastic case for dies		
6 die sets:		
Nest	Indentor	Indent crimp for low voltage general purpose terminals and through connectors from 25 to 120 mm²
MA5-50	PA5-50	
MA7-50	PA10-50	
MA10-50		
MA14-50	PA19-50	
MA19-50		
MA24-50	PA24-50	

KIT-HT51-MK

Kit includes:

HT51 Hydraulic tool	
VAL-M/M1 plastic carrying case	
VAL-75 plastic case for dies	
9 die sets:	
MK8-50	Hexagonal crimp for low voltage terminals and through connectors from 16 to 185 mm² DIN 46235 family
MK10-50	
MK12-50	
MK14-50	
MK16-50	
MK18-50	
MK20-50	
MK22-50	
MK25-50	



CEMBRE

RH50

HYDRAULIC PRESSHEAD

50kN | 700 bar | HEAD OPENING | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT | CE | UK CA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■		■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												
H.V. lugs and splices						■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).
RH50 is suitable for installing the same range of connectors as HT51.

TECHNICAL FEATURES

Crimping force kN	*50*
Max operating pressure bar	*700*
Dimensions mm	
Length	*195*
Width	*75*
Weight kg	*1,6*

STORAGE

Type	*VAL-M2T**
Dimensions mm L x W x H	*390 x 310 x 102*
Weight kg	*1,35*
Supplied with the tool	✓

** Suitable for storage of the head and 20 sets of dies*



STORAGE

Type	*CVB-007*
Dimensions mm L x W	*350 x 105*
Weight kg	*0,13*
Purchase separately	✓



RHM50

HYDRAULIC PRESSHEAD

50kN | 700 bar | DURABLE | HEXAGONAL | OVAL | INDENT | RADIAL | CE | UK CA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
Insulated terminals				■	■	■	■	■	■	■	■									
End sleeves					■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



Hydraulic presshead complete with quick automatic coupler for connection to hydraulic pump with working pressure of 700 bar max, (see page 330-336).
RHM50 is suitable for installing the same range of connectors as RH50. Particularly suitable for high volume bench crimping.

TECHNICAL FEATURES

Crimping force kN	*50*
Max operating pressure bar	*700*
Dimensions mm	
Length	*210*
Width	*70*
Weight kg	*1,6*

STORAGE

Type	*VAL-M2T**
Dimensions mm L x W x H	*390 x 310 x 102*
Weight kg	*1,35*
Supplied with the tool	✓

** Suitable for storage of the head and 20 sets of dies*



STORAGE

Type	*CVB-007*
Dimensions mm L x W	*350 x 105*
Weight kg	*0,13*
Purchase separately	✓



HYDRAULIC CRIMPING TOOL

HT60C

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Cu DIN lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
End sleeves			■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

STORAGE

Type	*CVB-010*
Dimensions mm L x W	*545 x 160*
Weight kg	*0,15*
Supplied with the tool	✓



TECHNICAL FEATURES

Crimping force kN	*60*
Dimensions mm	
Length	*382*
Width	*153*
Weight kg	*3,0*



STORAGE

Type	*VAL-75**
Dimensions mm L x W x H	*270 x 80 x 30*
Weight kg	*0,15*
Purchase separately	✓

**Suitable for storage 5 sets of dies*



New design two speed hydraulic tool, lightweight and compact, this tool is ideal for working in confined spaces.
Having the benefit of spring loaded handles, the dies can be advanced using only one hand; therefore leaving the other hand free to position the connector.
For ease of operation and comfort of the operator, the tool head can be fully rotated through 180 degrees. The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure release system can easily be operated at any stage of the compression.

HYDRAULIC PRESSHEAD

RH60C

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Cu DIN lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
End sleeves			■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

TECHNICAL FEATURES

Crimping force kN	*60*
Max operating pressure bar	*700*
Dimensions mm	
Length	*216*
Width	*91*
Weight kg	*1,8*

STORAGE

Type	*VAL-P26**
Dimensions mm L x W x H	*445 x 290 x 115*
Weight kg	*1,2*
Supplied with the tool	✓

Suitable for storage of the head and 14 sets of dies





Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).
RH60C is suitable for installing the same range of connectors as HT60C.

HT81-UD

HYDRAULIC CRIMPING TOOL

80kN | 2 SPEED | 180° | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE | HEXAGONAL | OVAL | INDENT

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	100	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■							■						
"C" sleeve Connectors			■	■	■	■	■	■	■													
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



This lightweight and self contained tool, features a patented closure and release mechanism for the die locking pin. A wide range of connectors can be crimped with a small number of die sets due to their unique, double groove styling. Dies for cutting Copper, Aluminum, Aldrey and Aluminum-steel, are also available (see table below).
The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.
For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees.

The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure releasing system can easily be operated at any stage of the compression.

TECHNICAL FEATURES

Crimping force kN	*80*
Dimensions mm	
Length	*485*
Width	*141*
Weight kg	*3,4*

STORAGE

Type	*VAL-M/X2**
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓

** Suitable for storage of the tool and VAL-75*



STORAGE

Type	*VAL-75**
Dimensions mm L x W x H	*270 x 80 x 30*
Weight kg	*0,15*
Purchase separately	✓

**Suitable for storing five sets of dies*



RHU81-D

HYDRAULIC PRESSHEAD

80kN | 700 bar | DURABLE | HEXAGONAL | OVAL | INDENT | CE | UKCA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	100	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■							■						
"C" sleeve Connectors			■	■	■	■	■	■	■													
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).
This lightweight and self contained head, features a patented closure and release mechanism for the die locking pin.
The head is easy to use and is ideally suited for crimping in confined spaces. RHU81 is suitable for installing the same range of connectors as HT 81-U.

TECHNICAL FEATURES

Crimping force kN	*80*
Max operating pressure bar	*700*
Dimensions mm	
Length	*235*
Width	*91*
Weight kg	*1,9*

STORAGE

Type	*CVB-007*
Dimensions mm L x W	*350 x 105*
Weight kg	*0,13*
Supplied with the tool	✓

HT 81-U and RHU 81 ACCESSORIES FOR CUTTING CONDUCTORS

Die Type	Cutting Capacity	Conductor Type
	Ø 16 mm	Cu, Alu, Aldrey and Alu-Steel
MB2-80U	This die is suitable to cut steel conductors (R ≤ 160 daN/mm²) having the most common strandings, i.e.: 19 x 1,2 = Ø est. 6,0 mm 7 x 3,0 = Ø est. 9,0 mm 19 x 2,1 = Ø est. 10,5 mm 19 x 2,3 = Ø est. 11,5 mm	
MB3-80U	Suitable to cut aluminium strands of 150 mm² aluminium-steel conductors, without damage to the steel core.	

HYDRAULIC CRIMPING TOOL

HT120

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

STORAGE

Type	*VAL-M/X2**
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓

*Suitable for storage of the tool and dies

TECHNICAL FEATURES

Crimping force kN	*120*
Dimensions mm	
Length	*490*
Width	*156*
Jaw opening	*25*
Weight kg	*5,7*





This lightweight and self contained tool will accept the semi-circular slotted dies, common to most 130 kN tools.
It is particularly suitable for installing crimp type electrical connectors for overhead line applications.
The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.
For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees.
The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and a pressure release system can easily be operated at any stage of the compression.



HT 120-KV
version also available for
Power Supply Companies



Die release system, protected from accidental operation



Pressure release trigger, which can be operated at any stage of the compression.



CEMBRE

HT131-C

HYDRAULIC CRIMPING TOOL

130kN | 2 SPEED | 180° | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0,25÷1,5	1,5÷2,5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

TECHNICAL FEATURES

Crimping force kN	*130*
Dimensions mm	
Length	*473*
Width	*144*
Jaw opening	*25*
Weight kg	*5,5*

STORAGE

Type	*VAL-M/X2**
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓

*Suitable for storage of the tool and dies





This new model, self contained, robust and sturdy, will accept all semi-circular slotted dies, common to most 130 kN tools.
The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping.
For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees.
The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and the pressure release system can easily be operated at any stage of compression.

HT131-C COMPRESSION KIT

general features

KIT-HT131-C-1
KIT-HT131-C-2
KIT-HT131-C-MK





KIT-HT131-C-1

Kit includes:

HT131-C Hydraulic tool	
VAL-M/X2 plastic carrying case	
7 die sets:	
ME10-C	Hexagonal crimp for low voltage terminals and through connectors from 50 to 240 mm² A-M family
ME14-C	
ME19-C	
ME24-C	
ME30-C	
ME37-C	
ME48-C	

KIT-131-C-MK

Kit includes:

HT131-C Hydraulic tool	
VAL-M/X2 plastic carrying case	
11 die sets:	
MK6-C	Hexagonal crimp for low voltage terminals and through connectors from 10 to 240 mm² DIN 46235 family
MK8-C	
MK10-C	
MK12-C	
MK14-C	
MK16-C	
MK18-C	
MK20-C	
MK22-C	
MK25-C	
MK28-C	

KIT-HT131-C-2

Kit includes:

HT131-C Hydraulic tool		
VAL-M/X2 plastic carrying case		
11 die sets:		
Nest	Indentor	Indent crimp for low voltage general purpose terminals and through connectors from 10 to 240 mm²
MA2-C	PA10-C	
MA3-C		
MA5-C		
MA7-C		
MA10-C		
MA14-C	PA24-C	
MA19-C		
MA24-C		
MA30-C	PA48-C	
MA37-C		
MA48-C		

CEMBRE

RHC131

HYDRAULIC PRESSHEAD

130kN | 700 bar | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT | CE | UKCA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).
This new design with improved mechanical features, is suitable for installing the same range of connectors as HT 131-C.

TECHNICAL FEATURES

Crimping force kN	130
Max operating pressure bar	700
Dimensions mm	
Length	232
Width	124
Jaw opening	25
Weight kg	3,8

STORAGE

Type	VAL-P26*
Dimensions mm L x W x H	445 x 290 x 115
Weight kg	1,2
Purchase separately	✓

*Suitable for storage of the head and 14 sets of dies



RHM132

HYDRAULIC PRESSHEAD

130kN | 700 bar | DURABLE | HEXAGONAL | OVAL | INDENT | RADIAL | CE | UKCA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

Particularly suitable for high volume bench crimping.



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).

TECHNICAL FEATURES

Crimping force kN	130
Max operating pressure bar	700
Dimensions mm	
Length	216
Width	80
Weight kg	3,1

STORAGE

Type	VAL-P26*
Dimensions mm L x W x H	445 x 290 x 115
Weight kg	1,2
Purchase separately	✓

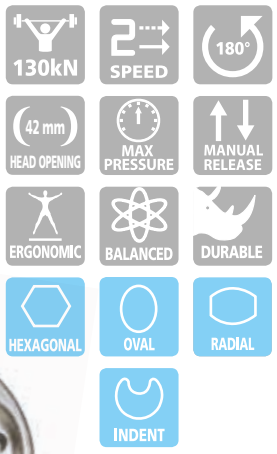
*Suitable for storage of the head and 14 sets of dies



HYDRAULIC CRIMPING TOOL

HT131LN-C

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

STORAGE

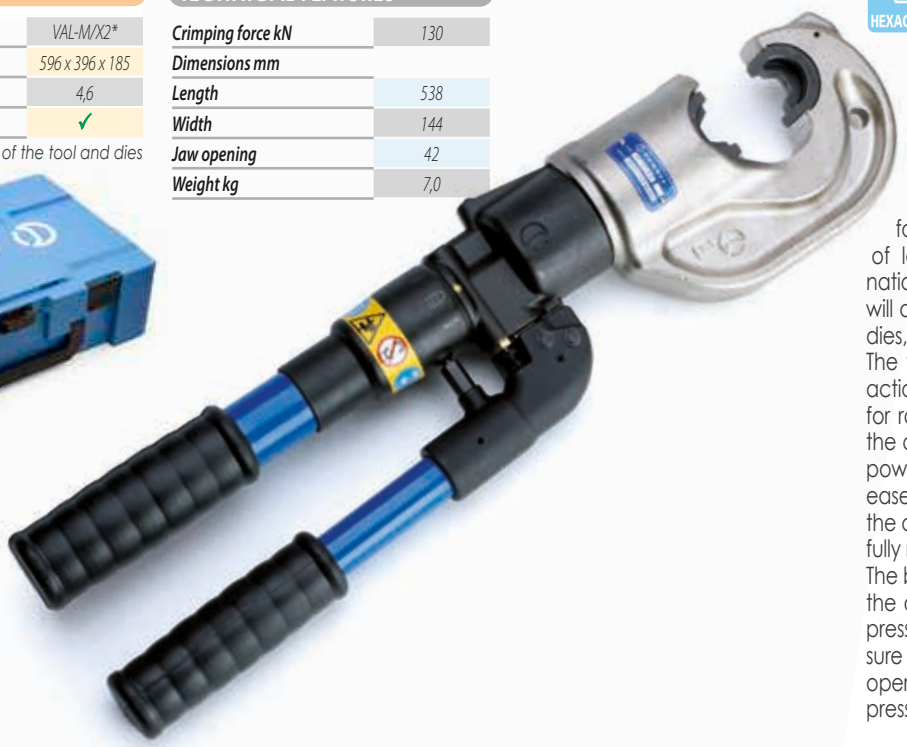
Type	*VAL-M/X2**
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓

**Suitable for storage of the tool and dies*

TECHNICAL FEATURES

Crimping force kN	*130*
Dimensions mm	
Length	*538*
Width	*144*
Jaw opening	*42*
Weight kg	*7,0*



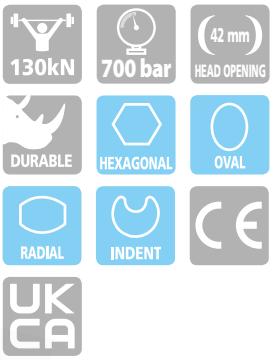


Hydraulic "C" head tool with a large 42 mm jaw opening, for easier introduction/removal of large size compression terminations and joints. The HT131LN-C will accept all semi-circular slotted dies, common to most 130 kN tools. The tool features a double speed action: a fast advancing speed for rapid approach of the dies to the connector and a slower more powerful speed for crimping. For ease of operation and comfort of the operator the tool head can be fully rotated through 180 degrees. The built-in safety valve will by-pass the oil supply when the maximum pressure is reached, and the pressure release system can easily be operated at any stage of compression.

HYDRAULIC PRESSHEAD

RHC131LN

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

STORAGE

Type	*VAL-P26**
Dimensions mm L x W x H	*445 x 290 x 115*
Weight kg	*1,2*
Purchase separately	✓

**Suitable for storage of the head and 14 sets of dies*

TECHNICAL FEATURES

Crimping force kN	*130*
Max operating pressure bar	*700*
Dimensions mm	
Length	*298*
Width	*122*
Jaw opening	*42*
Weight kg	*5,4*





Hydraulic head featuring a large 42 mm jaw opening; complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).
Is suitable for installing the same range of connectors as HT 131LN-C.

CEMBRE

HT131-UC

HYDRAULIC CRIMPING TOOL

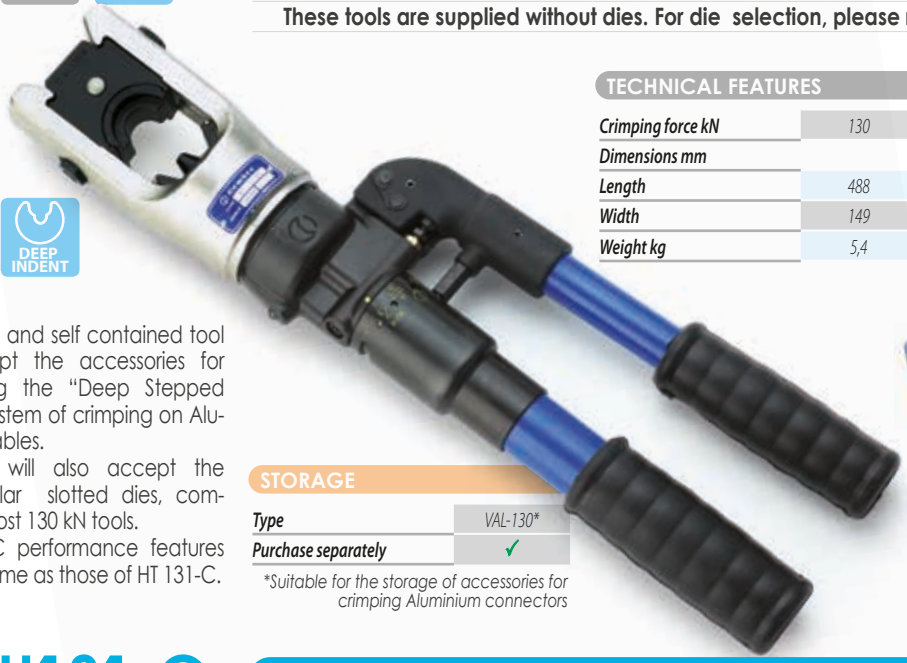
130kN · 2 SPEED · 180° · MAX PRESSURE · MANUAL RELEASE · ERGONOMIC · BALANCED · DURABLE · HEXAGONAL · OVAL · RADIAL · INDENT · DEEP INDENT

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■					
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



This robust and self contained tool will accept the accessories for performing the "Deep Stepped Indent" system of crimping on Aluminium cables.
This tool will also accept the semi-circular slotted dies, common to most 130 kN tools.
HT 131-UC performance features are the same as those of HT 131-C.

TECHNICAL FEATURES

Crimping force kN	*130*
Dimensions mm	
Length	*488*
Width	*149*
Weight kg	*5,4*

STORAGE

Type	*VAL-M/X2**
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓

**Suitable for storage of the tool and dies*



STORAGE

Type	*VAL-130**
Purchase separately	✓

**Suitable for the storage of accessories for crimping Aluminium connectors*

RHU131-C

HYDRAULIC PRESSHEAD

130kN · 700 bar · DURABLE · HEXAGONAL · OVAL · RADIAL · INDENT · DEEP INDENT · CE · UKCA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■					
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).
RHU131-C is suitable for installing the same range of connectors as HT 131-UC.

TECHNICAL FEATURES

Crimping force kN	*130*
Max operating pressure bar	*700*
Dimensions mm	
Length	*245*
Width	*89*
Weight kg	*3,7*

STORAGE

Type	*VAL-P26**
Dimensions mm L x W x H	*445 x 290 x 115*
Weight kg	*1,2*
Purchase separately	✓

**Suitable for storage of the head and 14 sets of dies*

STORAGE

Type	*VAL-130**
Dimensions mm L x W x H	*360 x 280 x 48*
Weight kg	*3,0*
Purchase separately	✓

**Suitable for the storage of accessories for crimping Aluminium connectors*

STORAGE

Type	*VAL-130-U**
Dimensions mm L x W x H	*450 x 305 x 80*
Weight kg	*5,0*
Purchase separately	✓

**Suitable for storage of the head, semi-circular slotted dies and dies for crimping Aluminium connectors*

VAL-130-U



VAL-130

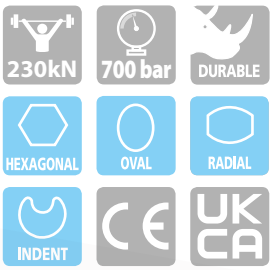


VAL-P26

HYDRAULIC PRESSHEAD

ECW-H3D

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■	■	■		
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■		■						
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■	■	■		

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

STORAGE

Type	*VAL-ECW-H3D**
Dimensions mm L x W x H	*345 x 205 x 90*
Weight kg	*4,2*
Purchase separately	✓

** Suitable for storage of the head and 10 sets of dies*

TECHNICAL FEATURES

Crimping force kN	*230*
Max operating pressure bar	*700*
Dimensions mm	
Length	*290*
Width	*120*
Weight kg	*5,5*

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).



ECW-H3D ACCESSORIES FOR CUTTING CONDUCTORS

Die Type	Cutting Capacity	Conductor Type
WT2-3D	Ø 20 mm	Cu, Alu, Aldrey and Alu-Steel
	Ø 20 mm	Extra flexible Steel with ≥ 200 strands
	This die is suitable to cut Steel conductors (R ≤ 160 daN/mm²) having the most common strandings, i.e.: 19 x 1,2 = Ø est. 6,0 mm; 7 x 3,0 = Ø est. 9,0 mm; 19 x 2,1 = Ø est. 10,5 mm; 19 x 2,3 = Ø est. 11,5 mm	

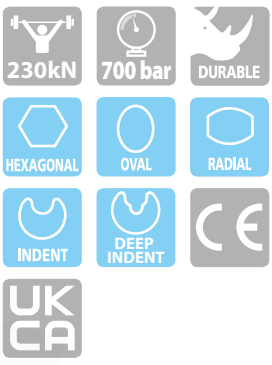


Adaptor type AU230-130D is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 130 kN tools. Also available is a series of dies for the compression of DIN electrical connectors, and a die for cutting Copper, Aluminium, aldrey, Aluminium-Steel and Steel conductors.

HYDRAULIC PRESSHEAD

RHU231

general features



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			
Cu lugs and splices				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

STORAGE

Type	*VAL-231**
Dimensions mm L x W x H	*470 x 273 x 96*
Weight kg	*7,2*
Supplied with the tool	✓
Purchase separately	-

** Suitable for storage of the head and dies for Aluminium compression*

TECHNICAL FEATURES

Crimping force kN	*230*
Max operating pressure bar	*700*
Dimensions mm	
Length	*320*
Width	*110*
Weight kg	*6,4*





Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).
For crimping up to 500 sqmm Aluminium.
Dies are available also for crimping Copper connectors.

CEMBRE

RHU230-630

HYDRAULIC PRESSHEAD

230kN | 700 bar | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT | DEEP INDENT | CE | UKCA

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■	■	■		
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336). It allows for crimping up to 630 sqmm Aluminium (according to HN 68 S90). Adapters AU 230-130-C/N, and AU 230-PS/E, are available as an optional extra enabling the head to utilise the semicircular slotted dies which are common to most 130 kN tools.

TECHNICAL FEATURES	
Crimping force kN	230
Max operating pressure bar	700
Dimensions mm	
Length	365
Width	193
Weight kg	9,0

STORAGE	
Type	VAL-230-630*
Dimensions mm L x W x H	405 x 230 x 145
Weight kg	3,5
Supplied with the tool	✓

*Suitable for storage of the head

STORAGE	
Type	VALMAT-230-630*
Dimensions mm L x W x H	290 x 260 x 70
Weight kg	3,1
Purchase separately	✓

*Suitable for storage of the accessories



VALMAT-230-630

VAL-230-630

RHU450

HYDRAULIC PRESSHEAD

450kN | 700 bar | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT | CE | UKCA

general features

MAIN APPLICATIONS - Hexagonal crimp according to DIN 48083 max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	680	800	1000	1200
Cu				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Al				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
Al/St				■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■			

These tools are supplied without dies.



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336). Adaptor type AU 450-130 D is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 130 kN tools.

TECHNICAL FEATURES	
Crimping force kN	450
Max operating pressure bar	700
Dimensions mm	
Length	260
Width	120
Weight kg	10,3

STORAGE	
Type	VAL-450*
Dimensions mm L x W x H	285 x 212 x 124
Weight kg	2,8
Supplied with the tool	✓

* Suitable for storage of the head



HYDRAULIC PRESSHEAD

RHU520

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000	1200
Lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■	■	■	■	■	■
H.V. overhead lines				■	■	■	■	■	■	■	■	■	■		■	■	■	■	■			

520kN · 700 bar · DURABLE · HEXAGONAL · OVAL · RADIAL · INDENT · CE · UKCA

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

STORAGE

Type	*VAL-520**
Dimensions mm L x W x H	*384 x 231 x 145*
Weight kg	*3,2*
Purchase separately	✓

**Suitable for storage of the head*

TECHNICAL FEATURES

Crimping force kN	*520*
Max operating pressure bar	*700*
Dimensions mm	
Length	*306*
Width	*200*
Weight kg	*18,0*

STORAGE

Type	*VALMAT-520**
Dimensions mm L x W x H	*500 x 310 x 68*
Weight kg	*5,1*
Purchase separately	✓

**Suitable for storage of 10 sets of dies*



VAL-520



VALMAT-520



Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).
Adaptor type AU520-130C is available as an optional extra enabling the head to utilise the semi-circular slotted dies which are common to most 130 kN tools.

CEMBRE

RHU600

HYDRAULIC PRESSHEAD

600kN | 700 bar | DURABLE | HEXAGONAL | CIRCULAR | CE | UK CA

general features

MAIN APPLICATIONS

- "U" Alcoa series die and "L" Burndy series die, etc.
- Aluminium and Copper max size 2156 MCM

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

Hydraulic presshead complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).





TECHNICAL FEATURES

Crimping force kN	*600*
Max operating pressure bar	*700*
Dimensions with support mm	
Length	*447*
Width	*241*
Weight with support	*22,4*

STORAGE

Type	*VAL-600**
Dimensions mm L x W x H	*480 x 235 x 260*
Weight kg	*8,6*
Supplied with the tool	✓

**Suitable for storage of the head*



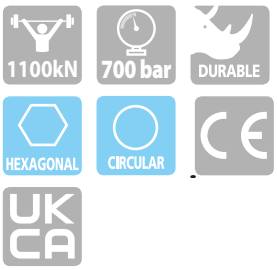
VAL-600

HYDRAULIC PRESSHEAD

RHU1000

general features

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



STORAGE

Type	*VAL-1000**
Dimensions mm L x W x H	*334 x 244 x 435*
Weight kg	*12*
Supplied with the tool	✓

**Suitable for storage of the head*

TECHNICAL FEATURES

Crimping force kN	*1.100*
Max operating pressure bar	*700*
Dimensions mm	
Length	*414*
Width	*278*
Weight kg	*50,6*

Operable from single or double acting hydraulic power source



VAL-1000

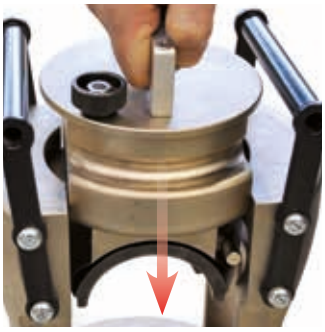




Lifting eye; screwed into the base of the cylinder, allows easy transportation of the head in aerial operation.

RHU 1000 is a 1.100 kN hydraulic presshead for full tension, transmission and substation connections, complete with quick automatic coupler for connection to hydraulic pumps with a working pressure of 700 bar max, (see page 330-336).
The standard version must be operated by a single acting pump; possibility to convert from single to double acting by substitution of the breather valve with a female quick coupling.
RHU1000 will accept all semi-circular slotted dies common to most 100 ton heads as the Alcoa ones.
The die cap is removable for an easy connector positioning; the upper part of the cap automatically rotates during the die changing process to present the correct positioning of the die. Lifting eye included.

Insertion of the upper die:



After substitution of the dies, insert the die cap into the head.



Pull the pin.



The upper part of the cap automatically rotates...



...to the correct position.

CEMBRE

HT-TC051

HYDRAULIC CUTTING TOOL

industrial application

Ø 50mm | 2 SPEED | 90° | HEAD OPENING | SPECIAL | ONE HAND | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 50 mm

TECHNICAL FEATURES	
Max cutting Ø mm	50
Dimensions mm	
Length	497
Width	129
Weight kg	4,38

STORAGE	
Type	CVB-010
Dimensions mm L x W	545 x 160
Weight kg	0,15
Supplied with the tool	✓





Hand operated hydraulic tool specifically designed to cut Copper, Aluminium and Telecommunications cable having a max overall diameter of 50 mm.
The tool features a double speed action: a fast advancing speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.The head can be easily opened to allow the cutting of running cables.

The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position.
HT-TC051 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

TC050

HYDRAULIC CUTTING HEAD

industrial application

Ø 50mm | 700 bar | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 50 mm

TECHNICAL FEATURES	
Max cutting Ø mm	50
Max operating pressure bar	700
Dimensions mm	
Length	325
Width	112
Weight kg	3,2

STORAGE	
Type	CVB-011
Dimensions mm L x W	360 x 137
Weight kg	0,13
Supplied with the tool	✓





Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336)
TC050 features the same cutting capability as HT-TC051.

HYDRAULIC CUTTING TOOL

HT-TC065

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 65 mm

STORAGE	
Type	*CVB-010*
Dimensions mm L x W	*545 x 160*
Weight kg	*0,15*
Supplied with the tool	✓

TECHNICAL FEATURES	
Max cutting Ø mm	*65*
Dimensions mm	
Length	*523*
Width	*129*
Weight kg	*5*



Hand operated hydraulic tool specifically designed to cut Copper, Aluminium and Telecommunications cable having a max overall diameter of 65 mm. The tool features a double speed action.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The head can be easily opened to allow the cutting of running cables.
The head can rotate through 320 degrees, to enable the operator to work in the most comfortable position.
HT-TC065 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

HYDRAULIC CUTTING HEAD

TC065-SC

industrial application

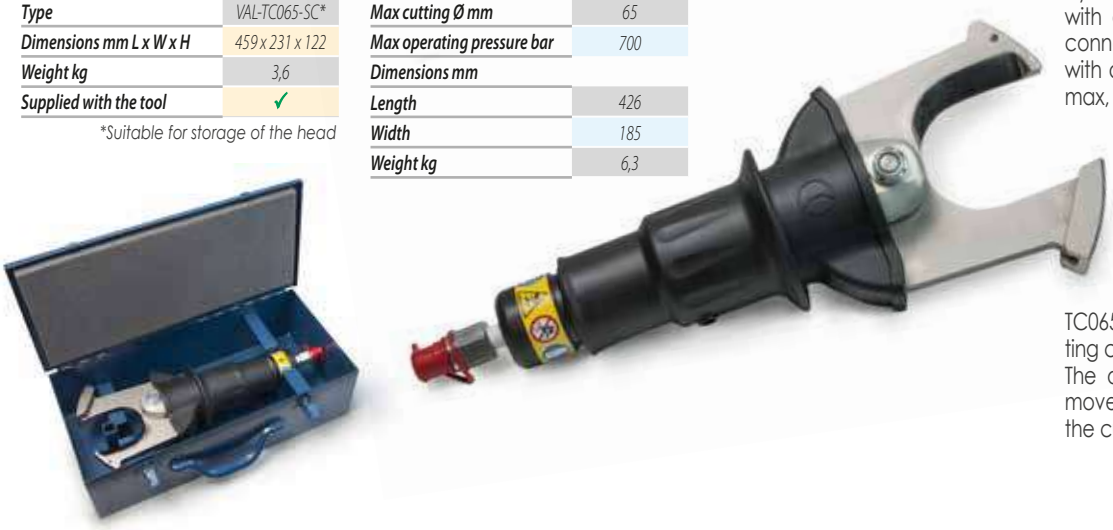
MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 65 mm

STORAGE	
Type	*VAL-TC065-SC**
Dimensions mm L x W x H	*459 x 231 x 122*
Weight kg	*3,6*
Supplied with the tool	✓

**Suitable for storage of the head*

TECHNICAL FEATURES	
Max cutting Ø mm	*65*
Max operating pressure bar	*700*
Dimensions mm	
Length	*426*
Width	*185*
Weight kg	*6,3*



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336)

TC065-SC features the same cutting capability as HT-TC065.
The open head and the "scissor" movement of the blades facilitate the cutting of running cables.

CEMBRE

HT-TC0851

HYDRAULIC CUTTING TOOL

industrial application

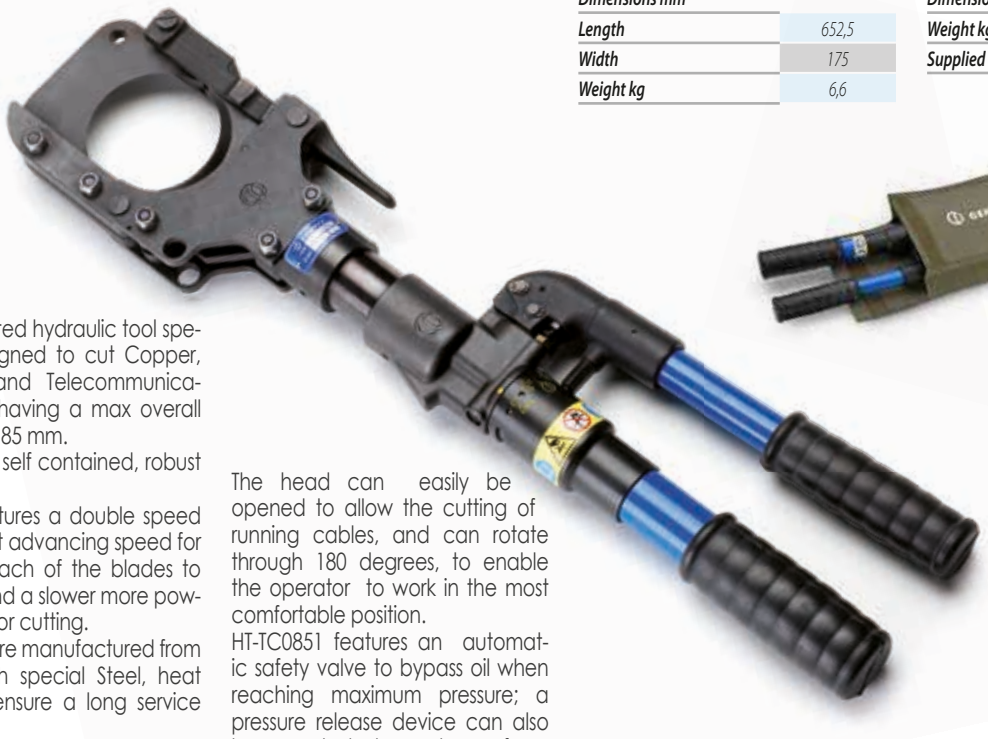
Ø 85mm | 2 SPEED | 90° | HEAD OPENING | SPECIAL | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 85 mm

TECHNICAL FEATURES	
Max cutting Ø mm	*85*
Dimensions mm	
Length	*652,5*
Width	*175*
Weight kg	*6,6*

STORAGE	
Type	*CVB-029/1*
Dimensions mm L x W x H	*780 x 200*
Weight kg	*0,426*
Supplied with the tool	✓





Hand operated hydraulic tool specifically designed to cut Copper, Aluminium and Telecommunications cable having a max overall diameter of 85 mm.
New model, self contained, robust and sturdy.
The tool features a double speed action: a fast advancing speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

The head can easily be opened to allow the cutting of running cables, and can rotate through 180 degrees, to enable the operator to work in the most comfortable position.
HT-TC0851 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

TC085

HYDRAULIC CUTTING HEAD

industrial application

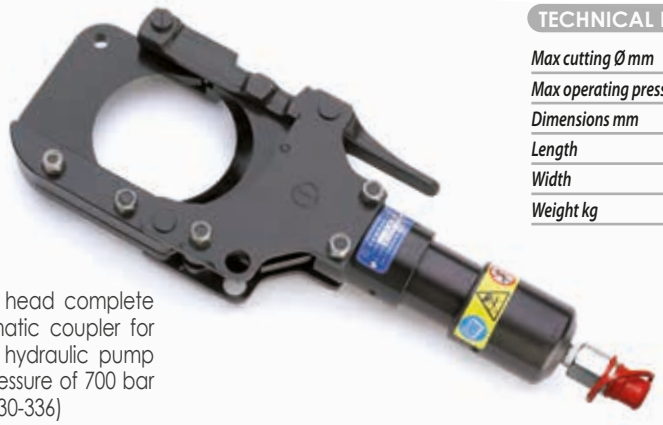
Ø 85mm | 700 bar | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 85 mm

TECHNICAL FEATURES	
Max cutting Ø mm	*85*
Max operating pressure bar	*700*
Dimensions mm	
Length	*409*
Width	*135*
Weight kg	*4,9*

STORAGE	
Type	*VAL-TC085*
Dimensions mm L x W x H	*465 x 155 x 65*
Weight kg	*2,4*
Supplied with the tool	✓





Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336)
TC085 features the same cutting capability as HT-TC0851.

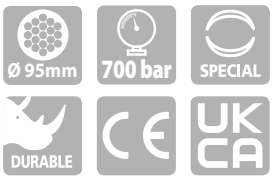
HYDRAULIC CUTTING HEAD

TC096

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper and Aluminium cable having Ø max 95 mm



STORAGE	
Type	*VAL-096*
Dimensions mm L x W x H	*450 x 265 x 145*
Weight kg	*6,8*
Supplied with the tool	✓

TECHNICAL FEATURES	
Max cutting Ø mm	*95*
Max operating pressure bar	*700*
Dimensions mm	
Length	*397*
Width	*249*
Weight kg	*7,9*





Hydraulic cutting head specifically designed to cut Copper and Aluminium cable having a max overall diameter of 95 mm.
The head is complete with a quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max,
(see page 330-336).



HYDRAULIC CUTTING HEAD

TC120

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 120 mm



STORAGE	
Type	*VAL-TC120*
Dimensions mm L x W x H	*590 x 209 x 84*
Weight kg	*4,9*
Supplied with the tool	✓

TECHNICAL FEATURES	
Max cutting Ø mm	*120*
Max operating pressure bar	*700*
Dimensions mm	
Length	*536*
Width	*175*
Weight kg	*9,5*





Hydraulic cutting head specifically designed to cut Copper, Aluminium and Telecommunications cable having a max overall diameter of 120 mm. The head can easily be opened to cut running cables, and the handle allows the most comfortable positioning of the head onto the cable to be cut.
The head is complete with a quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).

TC 120 cutting capacity - a few examples:

	Section	Conductor Type
Cable Type	3x150 mm²	Steel armoured Ø80 mm
	1000 mm²	Cu - EPR rubber insulated; Ø85 mm
	1000 mm²	Cu - EPR rubber insulated + lead sheath; Ø92 mm
	1000 mm²	Cu - EPR rubber insulated + lead sheath + PE sheath; Ø100 mm
	240 mm²	EPR rubber insulated





CEMBRE

HT-TC026

HYDRAULIC CUTTING TOOL

overhead line application

Ø 25mm | 2 SPEED | 180° | HEAD OPENING | SPECIAL | ONE HAND | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 25 mm



Hand operated hydraulic tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 25 mm.
The tool features a double speed action: a fast advancing speed for rapid approach of the blades to the cable and a slower more powerful speed for cutting.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow the cutting of running cables.

HT-TC026 features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

TECHNICAL FEATURES

Max cutting Ø mm	*25*
Dimensions mm	
Length	*382*
Width	*129*
Weight kg	*3,2*

STORAGE

Type	*CVB-001*
Dimensions mm L x W	*430 x 155*
Weight kg	*0,15*
Supplied with the tool	✓



CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) HT-TC026 HT-TC026Y TC 025 B-TC250
ROPES & CONDUCTORS	COPPER	≤ 41	25
	ALUMINIUM	≤ 20	25
	ALMELEC	≤ 34	25
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	25 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80
RODS	STEEL	≤ 60	13
		≤ 42	16
	COPPER	≤ 30	20
		≤ 25	23
	ALUMINIUM	≤ 16	25

TC025

HYDRAULIC CUTTING HEAD

overhead line application

Ø 25mm | 700 bar | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 25 mm



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336)
TC025 has the same cutting capability as HT-TC026.

TECHNICAL FEATURES

Max cutting Ø mm	*25*
Max operating pressure bar	*700*
Dimensions mm	
Length	*213*
Width	*82*
Weight kg	*2,0*

STORAGE

Type	*CVB-007*
Dimensions mm L x W	*350 x 105*
Weight kg	*0,13*
Supplied with the tool	✓



HYDRAULIC CUTTING TOOL

HT-TC026Y

overhead line application



MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminum, Aluminum-Steel cables, stay wire and Steel ropes having Ø max 25 mm and Steel earthing rod up to 16 mm.

STORAGE

Type	*CVB-001*
Dimensions mm L x W	*430 x 155*
Weight kg	*0,15*
Supplied with the tool	✓

TECHNICAL FEATURES

Max cutting Ø mm	*25*
Dimensions mm	
Length	*394,5*
Width	*129*
Weight kg	*3,35*



Ideal for earthing rod and stay wire

Hand operated hydraulic tool specifically designed to cut Copper, aldrey, Aluminum, Aluminum-Steel cables, stay wire and Steel ropes having a max overall diameter of 25 mm and Steel earthing rod up to 16 mm. The tool features a double speed action.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow the cutting of running cables.
HT-TC026Y features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

HT-TCO26Y cutting capacity - a few examples:

Ø		EARTHING RODS AND STAY WIRES
mm	in.	
14,2	/	STEEL EARTHING ROD, COPPER PLATED; Tensile strength = 79 daN/mm²
12,7	1/2"	STEEL EARTHING ROD, COPPER PLATED; Tensile strength = 69 daN/mm²
15,6	/	STEEL EARTHING ROD; Tensile strength = 69 daN/mm²
15,9	5/8"	STEEL EARTHING ROD, COPPER PLATED (CON ED - ILLINOIS); Tensile strength = 57 daN/mm²
15,9	5/8»	STEEL EARTHING ROD, COPPER PLATED (CON ED - STATEN ISLAND); Tensile strength = 78 daN/mm²
19	3/4"	STEEL EARTHING ROD, COPPER PLATED; Tensile strength = 74 daN/mm²
9,15 (3,05x7)	/	STAY WIRE
10,8 (3,6x7)	/	STAY WIRE (PORTLAND GENERAL ELECTRIC)
11,1 (3,7x7)	/	STAY WIRE (PORTLAND GENERAL ELECTRIC)
12,3 (4,1x7)	/	STAY WIRE (PORTLAND GENERAL ELECTRIC)
12,6 (4,2x7)	/	STAY WIRE (PORTLAND GENERAL ELECTRIC)

HT-TC041N

HYDRAULIC CUTTING TOOL

overhead line application

Ø 45mm | SPEED | 180° | HEAD OPENING | SPECIAL | ONE HAND | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 45 mm

TECHNICAL FEATURES

Max cutting Ø mm	*45*
Dimensions mm	
Length	*550*
Width	*144*
Weight kg	*5,8*

STORAGE

Type	*CVB-010*
Dimensions mm L x W x H	*545 x 160*
Weight kg	*0,286*
Supplied with the tool	✓





Hand operated hydraulic tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 45 mm.
New model, even more self contained, robust and sturdy.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.

HT-TC041N features an automatic safety valve to bypass oil when reaching maximum pressure; a pressure release device can also be operated at any stage of operation.

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) HT-TC041N TC04N B-TC450
ROPES & CONDUCTORS	COPPER	≤ 41	45
	ALUMINIUM	≤ 20	45
	ALMELEC	≤ 34	45
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	45 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80 54 x 3,50 + 19 x 2,10 : Ø est. = 31,50 54 x 4,36 + 19 x 2,62 : Ø est. = 39,20
RODS	STEEL	≤ 60	18
		≤ 42	20
	COPPER	≤ 30	30
		≤ 25	32
	ALUMINIUM	≤ 16	45

TC04N

HYDRAULIC CUTTING HEAD

overhead line application

Ø 45mm | 700 bar | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 45 mm



TECHNICAL FEATURES

Max cutting Ø mm	*45*
Max operating pressure bar	*700*
Dimensions mm	
Length	*311*
Width	*100*
Weight kg	*4,0*

STORAGE

Type	*VAL-04*
Dimensions mm L x W x H	*350 x 125 x 68*
Weight kg	*2,0*
Supplied with the tool	✓

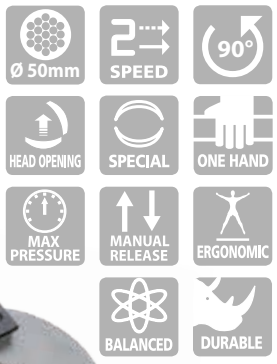


Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336)
TC04N has the same cutting capability as HT-TC041N.

HYDRAULIC CUTTING TOOL

HT-TC051Y

overhead line application



MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having Ø max 50 mm

Not suitable for cutting stay wire, Steel rope or earthing rod

STORAGE	
Type	*CVB-010*
Dimensions mm L x W	*545 x 160*
Weight kg	*0,15*
Supplied with the tool	✓

TECHNICAL FEATURES	
Max cutting Ø mm	*50*
Dimensions mm	
Length	*503*
Width	*129*
Weight kg	*4,7*



Hand operated hydraulic tool specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having a max overall diameter of 50 mm.
The HT-TC051Y is provided with a two stage hydraulic system, which advances the blades quickly to the cable. This proven system saves operator time and effort.

The HT-TC051Y is provided with an automatic safety valve to bypass oil when reaching max pressure.
This means safety to the operator and protection to the blades.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. The shape of the blades provides a "clean" cut. The head can be opened to allow cutting of running cables and ropes.
The head rotates 90 degrees allowing the operator to perform the cut in the most comfortable position.
The tool is supplied complete with canvas bag 010 for protection and storage when not in use.

HYDRAULIC CUTTING HEAD

TC050Y

overhead line application



MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having Ø max 50 mm

Not suitable for cutting stay wire, Steel rope or earthing rod

STORAGE	
Type	*CVB-011*
Dimensions mm L x W x H	*360 x 137*
Weight kg	*0,13*
Supplied with the tool	✓

TECHNICAL FEATURES	
Max cutting Ø mm	*50*
Max operating pressure bar	*700*
Dimensions mm	
Length	*331*
Width	*112*
Weight kg	*3,3*





Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336).
TC050Y features the same cutting capability as HT-TC051Y.

CEMBRE

HT-TC055

HYDRAULIC CUTTING TOOL

overhead line application

Ø 55mm | 2 SPEED | 330° | HEAD OPENING | SPECIAL | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 55 mm

TECHNICAL FEATURES

Max cutting Ø mm	*55*
Dimensions mm	
Length	*595*
Width	*144*
Weight kg	*8,3*

STORAGE

Type	*CVB-029/1*
Dimensions mm L x W x H	*780 x 200*
Weight kg	*0,426*
Supplied with the tool	✓





Hand operated hydraulic tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 55 mm.
The HT-TC055 is provided with a two stage hydraulic system, which advances the blades quickly to the cable. This proven system saves operator time and effort.
The HT-TC055 is provided with an automatic safety valve to bypass oil when reaching max pressure.
This means safety to the operator and protection to the blades.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.

The shape of the blades provides a "clean" cut. The head can be opened to allow cutting of running cables and ropes. The head rotates 330 degrees allowing the operator to perform the cut in the most comfortable position. The tool is supplied complete with plastic case VAL P7 for protection and storage when not in use.

CUTTING CAPACITY

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) HT-TC055 TC 055 B-TC550
ROPES & CONDUCTORS	COPPER	≤ 41	55
	ALUMINIUM	≤ 20	55
	ALMELEC	≤ 34	55
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	22
	ACSR	≤ 180	50 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80 26 x 4,44 + 7 x 3,45 : Ø est. = 28,14 54 x 3,50 + 19 x 2,10 : Ø est. = 31,50 54 x 4,36 + 19 x 2,62 : Ø est. = 39,20 83 x 4,60 + 16 x 2,80 : Ø est. = 50,00
	GUY WIRE (GW15-9/16-188)	Extra high strenght grade	7 x 4,77 : Ø est. =14,30 mm
RODS	STEEL	≤ 60	20
		≤ 42	22
	COPPER	≤ 30	34
		≤ 25	38,5
	ALUMINIUM	≤ 16	50

TC055

HYDRAULIC CUTTING HEAD

overhead line application

Ø 55mm | 700 bar | HEAD OPENING | SPECIAL | DURABLE | CE | UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 55 mm



TECHNICAL FEATURES

Max cutting Ø mm	*55*
Max operating pressure bar	*700*
Dimensions mm	
Length	*357*
Width	*134*
Weight kg	*6,6*

STORAGE

Type	*VAL-TC055*
Dimensions mm L x W x H	*384 x 231 x 145*
Weight kg	*3,7*
Supplied with the tool	✓



Hydraulic cutting head complete with quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max, (see page 330-336)
TC055 has the same cutting capability as HT-TC055.

PIERCING HEADS

general features

RHT160
RHT160-60N

Ø 21mm | 700 bar | DURABLE | CE | UKCA

RHT160

Max piercing Ø mm	21
Max hole distance from bar edge (mm)	30
Max operating pressure bar	700
Dimensions mm	
Length	240
Width	153
Weight kg	6,5

RHT160-60N

Max piercing Ø mm	21
Max hole distance from bar edge (mm)	60
Max operating pressure bar	700
Dimensions mm	
Length	240
Width	181
Weight kg	9,2



STORAGE

Type	VAL-160*
Dimensions mm L x W x H	283 x 180 x 100
Weight kg	2,3
Supplied with the tool	✓

*Suitable for storage of the head



Hydraulic head complete with automatic quick coupler, for piercing holes of various diameters in Copper, Aluminium and Steel bars with max. thickness of 10 mm.
This compact and handy tool is widely used for transformer room connections, control switch boards and power plants.
For operation the head must be joined to a hydraulic pump developing a pressure of 700 bar (see page 330-336).

Available accessories (to be ordered separately):

Piercing Ø mm	6,5	8,5	9	10,5	11	13	13,5	14	15	17	19	21
Type (Kit Punch+Die)	RT6.5	RT8.5	RT9	RT10.5	RT11	RT13	RT13.5	RT14	RT15	RT17	RT19	RT21

Max. thickness

Hole diameter (mm)	6,5	8,5	9	10,5	11	13	13,5	14	15	17	19	21
Max thickness strep in Copper	10	10	10	10	10	10	10	10	10	10	8	8
Max thickness strep in Steel	10	10	10	10	10	9	9	9	8	7	6	4
Punch die/set	RT6.5	RT8.5	RT9	RT10.5	RT11	RT13	RT13.5	RT14	RT15	RT17	RT19	RT21

CEMBRE

HT-FL75

PULLER-TYPE HOLE PUNCHING TOOLS

Ø 140mm | SPEED | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

general features

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 3,5 mm thickness

TECHNICAL FEATURES	
Max Punching Ø mm	*140*
Dimensions mm	
Length	*452*
Width	*138*
Weight kg	*3,67*

STORAGE	
Type	*VAL-M/M1**
Dimensions mm L x W x H	*446 x 345 x 145*
Weight kg	*2,5*
Supplied with the tool	✓

*Adatta a contenere l'utensile ed i suoi accessori





Hand operated hydraulic tool specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 3,5 mm thickness. Compact, lightweight and easy to handle. The balanced punching head pivots 180deg through a full 360deg rotation for ease of use in confined spaces.
The tool is supplied complete with plastic case VAL P28 for protection and storage when not in use.
Supplied with Pullers TD-11, TD-19 and spiral bit Ø 11,5 mm.
For the punch-die selection chart see page 265.









Testa girevole di 360° e ruotabile di 180°

KIT-HT-FL75-1

HOLE PUNCHING KIT

Ø 140mm | SPEED | MAX PRESSURE | MANUAL RELEASE | ERGONOMIC | BALANCED | DURABLE

general features



KIT-HT-FL75-1	
Kit includes:	
HT-FL75 Puller-type hole punching hydraulic tool	
VAL-M/M1 plastic carrying case with accessories	
Puller TD-11	
Puller TD-19	
spiral bit Ø 11,5 mm	
4 KIT for round punch:	
KIT-RD18.8SS	Pg11
KIT-RD20.5SS	Pg13.5
KIT-RD22.6SS	Pg16
KIT-RD28.5SS	Pg21

PULLER-TYPE HOLE PUNCHING HEAD

RH-FL75

general features



Ø 140mm | 700 bar | DURABLE

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 3,5 mm thickness

STORAGE

Type	*VAL-P29*
Dimensions mm L x W x H	*448 x 288 x 105*
Weight kg	*1,4*
Supplied with the tool	✓



TECHNICAL FEATURES

Max Punching Ø mm	*140*
Max operating pressure bar	*700*
Dimensions mm	
Length	*163*
Width	*106*
Weight kg	*1,9*

Hydraulic head, for hole punching stainless Steel, mild Steel, fibreglass and plastic sheet materials up to 3,5 mm thickness.
Compact and lightweight, easy to handle in confined spaces due to a rotating 90deg quick automatic coupler for connection to a hydraulic pump with a working pressure of 700 bar max (see page 330-336).
Supplied with Pullers TD-11, TD-19 and spiral bit Ø 11,5 mm.
For the punch-die selection chart see table below.

HT-FL75 and RH-FL75 Punching accessories available

Round punch

Hole diameter Nominal Ø (mm)	Hole diameter Nominal Ø (inch)	Pg	ISO	GAS	Material max thickness (mm) Stainless Steel	Material max thickness (mm) Mild Steel	Pilot hole Ø (mm)	Type KIT (Punch + Die)	Type Puller
15,5	.610	Pg9	-	-	2,5 mm (0.1 in.) Rm= 700 N/mm²	3,5 mm (0.14 in.) Rm= 510 N/mm²	11,5	RD15.5SS	TD-11
16,2	.638	-	ISO-16	-				RD16.2SS	
17,0	.669	-	-	G3/8"				RD17SS	
17,5	.689	-	-	-				RD17.5SS	
18,8	.740	Pg11	-	-				RD18.8SS	
19,1	.752	-	-	-				RD19.1SS	
20,5	.807	Pg 13,5	ISO-20	-				RD20.5SS	
21,5	.846	-	-	G1/2"				RD21.5SS	
22,6	.890	Pg16	-	-				RD22.6SS	
23,8	.937	-	-	G5/8"				RD23.8SS	
25,4	1.000	-	ISO-25	-				RD25.4SS	
27,0	1.063	-	-	G3/4"				RD27SS	
28,5	1.122	Pg21	-	-				RD28.5SS	
30,5	1.201	-	-	G7/8"				RD30.5SS	
28,5	1.122	Pg 21	-	-			20,0	RD28.5SS-19	TD-19
30,5	1.201	-	-	G7/8"				RD30.5SS-19	
31,8	1.252	-	-	-				RD31.8SS	
32,5	1.279	-	ISO-32	-				RD32.5SS	
34,0	1.338	-	-	G1"				RD34SS	
34,6	1.362	-	-	-				RD34.6SS	
37,2	1.464	Pg29	-	-				RD37.2SS	
38,1	1.500	-	-	-				RD38.1SS	
38,5	1.515	-	-	G1"1/8"				RD38.5SS	
40,5	1.594	-	ISO-40	-				RD40.5SS	
41,3	1.626	-	-	-				RD41.3SS	
42,5	1.673	-	-	G1"1/4"				RD42.5SS	
43,2	1.701	-	-	-				RD43.2SS	
44,5	1.752	-	-	-				RD44.5SS	
47,2	1.858	Pg36	-	-				RD47.2SS	
48,5	1.909	-	-	G1"1/2"				RD48.5SS	
50,5	1.988	-	ISO-50	-				RD50.5SS	
51,4	2.023	-	-	-				RD51.4SS	
52,4	2.063	-	-	-				RD52.4SS	
54,2	2.134	Pg42	-	G1"3/4"				RD54.2SS	
60,0	2.362	Pg48	-	G2"				RD60SS	
60,5	2.381	-	-	-				RD60.5SS	
64,0	2.520	-	ISO-63	-				RD64SS	
65,0	2.559	-	-	-				RD65SS	
76,0	2.992	-	-	G2"1/2"		3		RD76SS	
76,5	3.011	-	-	-		3,5		RD76.5SS	
80,5	3.169	-	-	-		3		RD80.5SS	
89,0	3.503	-	-	G3"		3,5		RD89SS	
90,0	3.543	-	-	-	2	3		RD90SS	
100,0	3.937	-	-	-	2	3	29,0	RD100SS	TD-28.5*
102,0	4.015	-	-	-	2	3		RD102SS	
114,0	4.488	-	-	-	2	2,5		RD114SS	
120,0	4.724	-	-	-	1,5	2		RD120SS	
140,0	5.512	-	-	-	1,5	2		RD140SS	

** Puller included in the kit*

"D" punch

Hole diameter Nominal (mm)	Hole diameter Nominal (inch)	Material max thickness (mm) Stainless Steel	Material max thickness (mm) Mild Steel	Pilot hole Ø (mm)	Type KIT (Punch+die + Puller)
(a)38,3 x (b)36,6	(a)1.507 x (b)1.442	2,5	3,5	18,5	RD 18D
(a)43,1 x (b)41,5	(a)1.696 x (b)1.632				RD 24D

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 500 N/mm²

Square punch

Hole diameter Nominal (mm)	Hole diameter Nominal (inch)	Material max thickness (mm) Stainless Steel	Material max thickness (mm) Mild Steel	Pilot hole Ø (mm)	Type KIT (Punch+die + Puller)	Application Cable Entry Frames Type
21,0 x 21,0	.827 x .827	2,5	3,5	12,0	RD21X21	-
43,0 X 43,0	1.693 x 1.693	1,5	2,0	26,5	RD43X43 NEW	9000.Q
46,0 x 46,0	1.811 x 1.811				RD46X46	-
68,0 x 68,0	2.677 x 2.677			28,5	RD68X68	-
92,0 x 92,0	3.622 x 3.622				RD92X92	-
126,0 x 126,0	4.960 x 4.960				RD126X126	-
138,0 x 138,0	5.433 x 5.433	1,0	1,5		RD138X138	-

Rectangular punch

Hole diameter Nominal (mm)	Hole diameter Nominal (inch)	Material max thickness (mm) Stainless Steel	Material max thickness (mm) Mild Steel	Pilot hole Ø (mm)	Type KIT (Punch+die + Puller)	Application Cable Entry Frames Type
18,0 x 46,0	.709 x 1.811	2,0	2,0	16,5	RD18X46	-
22,0 x 30,0	.866 x 1.181				RD22X30	-
22,0 x 46,0	.866 x 1.811				RD22X46	-
24,0 x 43,0	.945 x 1.693				RD24X43 NEW	9000.R-2
24,0 x 65,0	.945 x 2.559				RD24x65 NEW	9000.R-3
24,0 x 86,0	.945 x 3.386				RD24X86 NEW	9000.R-4
24,0 x 112,0	.945 x 4.409				RD24X112 NEW	9000.R-5
29,0 x 71,0	1.141 x 2.795				RD29X71	-
35,0 x 65,0	1.377 x 2.559			26,5	RD35X65	-
35,0 x 86,0	1.377 x 3.385				RD35X86	-
35,0 x 112,0	1.377 x 4.409				RD35X112	-
36,0 x 46,0	1.417 x 1.811				RD36X46	-
36,0 x 65,0	1.417 x 2.559				RD36X65 NEW	9000.10
36,0 x 86,0	1.417 x 3.386				RD36X86 NEW	9000.16
36,0 x 112,0	1.417 x 4.409				RD36X112 NEW	9000.24
37,0 x 54,0	1.456 x 2.125	1,5			RD37X54	-
37,0 x 67,0	1.456 x 2.637				RD37X67	-
37,0 x 88,0	1.456 x 3.464				RD37X88	-
37,0 x 104,0	1.456 x 4.094				RD37X104	-
37,0 x 115,0	1.456 x 4.527				RD37X115	-
46,0 x 54,0	1.811 x 2.126				RD46X54	-
46,0 x 65,0	1.811 x 2.559				RD46X65 NEW	9000.10
46,0 x 72,0	1.811 x 2.835				RD46X72	-
46,0 x 86,0	1811 x 3.386				RD46X86 NEW	9000.16
46,0 x 92,0	1.811 x 3.622				RD46X92	-
46,0 x 107,0	1.811 x 4.212				RD46X107	-
46,0 x 112,0	1.811 x 4.409				RD46X112 NEW	9000.24
50,0 x 98,0	1.968 x 3.858				RD50X98	-
67,0 x 126,0	2.637 x 4.960			28,5	RD67X126	-
72,0 x 136,0	2.834 x 5.354				RD72X136	-

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 500 N/mm²

Use of non-CEMBRE punching accessories

Type	Punch & Die	Pilot hole Ø mm
TRD-9.4C (*)	GREENLEE 3/8" - 24 UNF	Ø 10.0
TRD-M11C (*)	BM, COSMEC (M11x1.5), IMB 9602	Ø 11.5
TD-M16C	BM, COSMEC (M16x1.5)	Ø 16.5
TD-27	BM, COSMEC (Ø105÷Ø140)	Ø 27.5
TD-14X14-M14	BM, COSMEC 46x46	Ø 18.8
TD-120X20-M20	BM, COSMEC 92x92	Ø 27.5
TD-20X20-M20 (with plug)	BM, COSMEC 42x95	Ø 27.5
TGD-13.5X13.5-M13	BM, COSMEC 40x40; 45x45; 46x46 (M13)	Ø 18.8
TGD-10X10-M9	BM, COSMEC 006505	Ø 13.8
TD-9	IMB 9601	Ø 9.5
TD-16	IMB 9603	Ø 16.5
TD-10X10-M10 (with plug)	IMB 9623	Ø 14.5
TD-14X14-M14/1"	IMB 9625	Ø 19,5
TD-20 (without plug)	IMB 9626	Ø 27.5
TD-20X20-M20-C (with plug)	IMB 9626	Ø 27.5

(*) The washer supplied with the KIT must be threaded onto the draw stud and positioned between the head and the die to allow the die to rest correctly

CEMBRE

RHTD

NUT SPLITTING HEADS

general features



Hydraulic nut splitting head complete with automatic quick coupler. For operating the head must be joined to a hydraulic pump developing a pressure of 700 bar (see page 330-336).

RHTD270

Suitable for splitting nuts mm	*16(M10)÷27(M18)*
Max operating pressure bar	*700*
Weight kg	*1,76*

RHTD3241

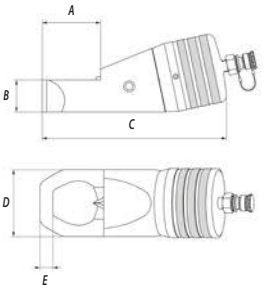
Suitable for splitting nuts mm	*27(M18)÷41(M27)*
Max operating pressure bar	*700*
Weight kg	*4,6*

RHTD410T

Suitable for splitting nuts mm	*27(M18)÷41(M27)*
Max operating pressure bar	*700*
Weight kg	*4,9*

Dimensions mm

	RHTD270	RHTD3241	RHTD410T
A	40,5	66	77
B	25	36	41
C	105,5	208	222
D	54	75,5	75,5
E	7,5	16	21,5



STORAGE

Type	*VAL-P4*
Dimensions mm L x W x H	*315 x 300 x 95*
Weight kg	*0,93*
Supplied with the tool	✓



Application range

Type	HEXAGONAL NUTS		SQUARE NUTS	
	mm	Ø	mm	Ø
RHTD270	16	M 10	17	M 10
	17	M 10	19	M 12
	18	M 12	22	M 14
	19	M 12	24	M 16
	21	M 14	27	M 18
	22	M 14		
	24	M 16		
	27	M 18	27	M 18
RHTD3241 RHTD410T	27	M 18	27	M 18
	30	M 20	30	M 20
	32	M 22	32	M 22
	34	M 22	34	M 24
	36	M 24	36	M 27
	41	M 27		

CORDLESS HYDRAULIC TOOLS



SYMBOL DESCRIPTION

cordless hydraulic tools



Crimping force kN



18.0 V Li-Ion high power batteries



Double speed action: a rapid approach speed and a slower more powerful speed for crimping or cutting



Openable compression head, ideal for derivations from running conductors



Openable cutting head, ideal for cutting running cables



Tool with a large 42 mm jaw opening, for easier introduction/removal of large size compression terminations and joints



blades manufactured from high strength special Steel, heat treated to ensure a long service life



Max cutting diameter



Max hole punching diameter



The head can rotate to enable the operator to work in the most comfortable position



OLED display with multi-function capacitive touch button: Crimping force being generated, Battery power availability, Tool identification, LED state, Reset, No. of operational and service crimping cycles, Tool service required



Battery condition displayed to show the residual battery power



Switch protected against accidental operation



Can be operated with one hand



Equipped with safety valve as a additional safety element for the operator



Provided with a maximum pressure sensor that allows to check the correct execution of the compressions



Pressure release button



Extremely quiet in operation



Very little vibration



Ergonomically designed with a sculptured body for operator comfort



Lightweight and balanced tool for greater control



LED lighting of the working area



Dual-compound plastic body
Greater safety and comfort in handling, thanks to the rubber inserts



Ensures optimal use of energy available



Durable moulded body offering high resistance to wear and damage in all operating conditions



Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface



Operating temperature range between -15 and +50°C

SYMBOL DESCRIPTION

cordless hydraulic tools



Hexagonal crimp



Radial crimp



Indent crimp



Deep indent crimp



Oval crimp



Trapezium crimp



Circular crimp



Max operating pressure



Manual pressure release button



Fitted with an integral socket, for connection to a 12 V dc external power supply



Contains isolated oil



Hydraulic units provide protection against short circuit when accidentally cutting live L.V. / M.V. cables with nominal voltage up to 60 kV



CE marking



UKCA marking



"Bilinear" configuration
CEMBRE bilinear tools have their mechanical centre of gravity nearest to the operator's wrist to optimise the overall ergonomics of the tool and provide a wider support for the hand



"Pistol" configuration
The new design and mass distribution favour the easy handling during use



"Standard" configuration
The design allows the maximum stability and comfort in handling and ergonomics



Smart Release Technology
Automatic retraction of the ram only occurs when the operator releases the start button, this allows visual verification of the die to ensure that they have fully met prior to releasing



Electronic Pressure Sensor
The EPS guarantees the precision of the crimping operation, checking the actual value of pressure and informing the operator of possible errors



Electronic Cut Sensor
The ECS guarantees the precision of the cutting operation, checking the complete stroke of the blades and informing the operator about possible errors.



Safe Cut Technology
Fitted with LED indicators and a buzzer to communicate during progress and at the completion of the cutting operation.



Radio Remote Control
Radio control device to utility cable cutting operations in limited access locations, eg. in man-holes, to enable working from a safe distance.



Data recording and intelligent control allow complete verification of operational parameters. SMARTOOL technology enables the user to to store data from up to 200,000 cycles on the integrated memory card for transfer to a computer via a USB cable

18.0 V - 5.2 AH CORDLESS TOOL FEATURES

general features

1. Head rotates through 180°
2. Switch protected against accidental operation
3. Pressure release button
4. Slot-in battery with release button
5. LED lighting of the working area
6. Motor ventilation
7. Bi-component body for increased impact resistance
8. Multifunction OLED display with touch button
9. Improved balance for better handling
10. Anatomically shaped grip for greater comfort
11. 18.0 V - 5.2 Ah Li-Ion high power batteries
12. SMARTOOL technology for viewing and downloading operational data









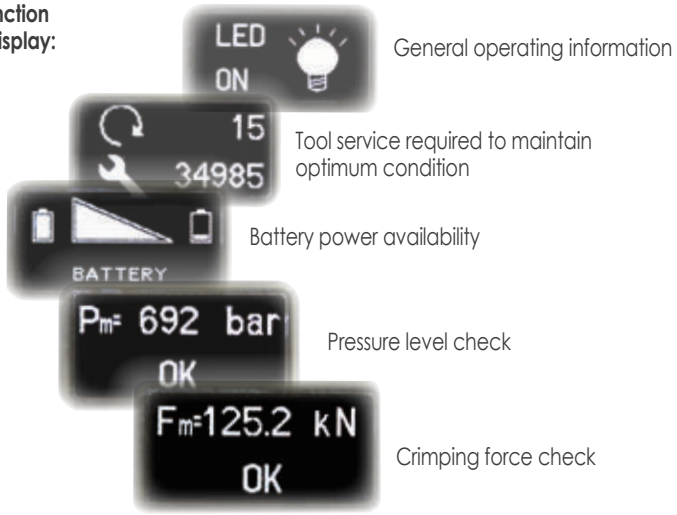
SUPPLIED WITH

1. CB1852L, 18.0 V - 5.2 Ah Li-Ion high power battery (2 pcs.)
2. ASC55-EU Battery charger with EUROPEAN plug
   ASC55-UK Battery charger with UK plug
   ASC55-USA/CA, AC charger (115V) with USA/CANADA plug
   ASC55-AUS/NZ, AC charger with AUSTRALIAN/NEW ZEALAND plug
   (INPUT 220-240 V / 50-60 Hz; OUTPUT 12-42 V DC / 3.0 A max.)
3. USB cable
4. Shoulder strap

- Plastic or Metal carrying case



Multifunction OLED display:



General operating information

Tool service required to maintain optimum condition

Battery power availability

Pressure level check

Crimping force check



18.0 V - 2.0 AH CORDLESS TOOL FEATURES

general features

1. Bilinear mechanical design
2. Smart Release system to automatically retract the ram at the end of the crimping cycle
3. OLED multifunctional display with touch button
4. Electronic Pressure Sensor (EPS)
5. SMARTOOL technology for viewing and downloading operational data
6. Illumination of working area via 4 x LED lights
7. Bi-component plastic body
8. Head rotates for ease of operation in confined spaces
9. Switch protected against accidental operation
10. Pressure release button
11. Slot-in battery with release button
12. Battery condition displayed to show the residual battery power
13. Motor ventilation
14. The tools are fitted with a maximum pressure valve to indicate a correct crimping operation or the full extent of the ram travel
15. Can be operated with one hand
16. Extremely quiet in operation with very little vibration
17. Anatomically shaped grip for greater comfort
18. 18.0 V - 2.0 Ah Li-Ion high power batteries



New Range nd

BILINEAR

SMART TECHNOLOGY RELEASE

EPS.

SMARTOOL TECHNOLOGY













SUPPLIED WITH

1. **CB1820L, 18.0 V - 2.0 Ah Li-Ion high power battery (2 pcs.)**
2. **ASC55-EU Battery charger with EUROPEAN plug**
   ASC55-UK Battery charger with UK plug
   ASC55-USA/CA, AC charger (115V) with USA/CANADA plug
   ASC55-AUS/NZ, AC charger with AUSTRALIAN/NEW ZEALAND plug
   (INPUT 220-240 V / 50-60 Hz; OUTPUT 12-42 V DC / 3.0 A max.)
3. **USB cable** (not for B15MD)

- Wrist strap
- Plastic carrying case



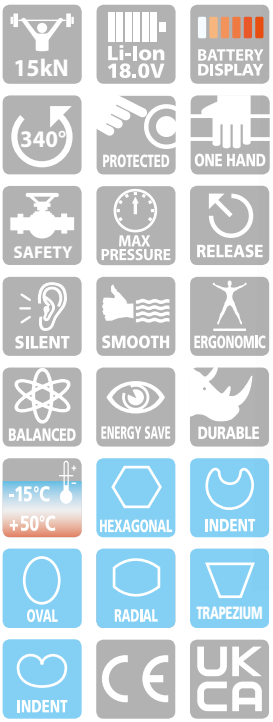
CEMBRE

B15MD

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B15MD	PLUG EU	ASC55-EU with EUROPEAN plug
B15MDE	PLUG UK	ASC55-UK with UK plug
B15MA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B15MDT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



Can be operated with one hand.
Balanced for greater control.
Head rotates by 340° for ease of operation in confined spaces.
The tool is fitted with a maximum pressure valve.
Extremely quiet, minimal vibration.
Durable moulded body offering high resistance to wear and damage in all operating conditions.
Equipped with Li-Ion 18.0V - 2.0Ah rechargeable high capacity batteries.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.
Supplied in a robust plastic case to accommodate the tool and all the accessories.
Two batteries and charger included.
Many different interchangeable crimping dies available.
Operating temperature:
-15 to +50 ° C

MAIN APPLICATIONS - max section sqmm

Section sqmm	0,25÷1,5	1,5÷2,5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Copper lugs and splices	■	■	■	■	■															
Insulated terminals	■	■	■	■	■															
End sleeves	■	■	■	■	■	■	■													

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



TECHNICAL FEATURES

Crimping force kN	*15*
Dimensions mm	
Length	*335*
Height	*124*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*1,74*

STORAGE

Type	*VAL-P22*
Dimensions mm L x W x H	*465 x 315 x 116*
Weight kg	*1,5*
Supplied with the tool	✓



The tool is supplied as:
- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- Plastic carrying case suitable for storing the tool and accessories

Many different interchangeable crimping dies available

Conductor Size sqmm	(AWG)	Connector Type	Die Set	
0,25 ÷ 16	22 ÷ 6	A... ; L...-M ; L...-P ; S... ; RN... ; BN... ; GN...	MA03/3-15	
1,5 ÷ 10	16 ÷ 8	A... ; L...-M ; L...-P	ME03/2-15	
10 ÷ 16	8 ÷ 6	A... ; 2A... ; L...-M ; L...-P	ME2/3-15	
4 ÷ 10	12 ÷ 8	T... (NF C 20130 style) ; L...-T	MS4/10-15	
10 ÷ 16	8 ÷ 6	T... (NF C 20130 style) ; L...-T	MS10/16-15	
10 ÷ 16	8 ÷ 6	HR... ; HSV...	MH10/16-15	
6 ÷ 16	10 ÷ 6	DR... (DIN 46235 style) ; DSV... (DIN 46267 T1 style)	MK5/8-15	
10 ÷ 16	8 ÷ 6	ANE... ; AN... ; IN... ; EN...	NN4-15	
0,25 ÷ 6	22 ÷ 10	R... ; B... ; G... ; PL... ; NL...	RBG-15	
0,25 ÷ 6	22 ÷ 10	R... ; B... ; G... (not suffix P, RF/BF-BF)	RBY-15 with positioner	
0,3 ÷ 4	22 ÷ 12	PKE ; PKC ; PKD ; PKT ; KE	KE4-15	
4 ÷ 16	12 ÷ 6	PKE ; PKC ; PKD ; PKT ; KE	KE16-15	
16 ÷ 35	6 ÷ 2	PKE ; PKC ; PKD ; PKT ; KE	KE35-15	
2,5 - 4 - 6	14 -12 -10	CS4 (for photovoltaic systems)	MCS4-15	

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B450ND-BV

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■								
"C" sleeve Connectors			■	■	■	■	■													

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

Tool Type	Plug Type	Supplied Battery Charger Type
B450ND-BV	PLUG EU	ASC55-EU with EUROPEAN plug
B450ND-BVE	PLUG UK	ASC55-UK with UK plug
B450ND-BVA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B450ND-BVT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Crimping force kN	*50*
Dimensions mm	
Length	*364*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*2,6*

STORAGE

Type	*VAL-P22*
Dimensions mm L x W x H	*465 x 315 x 116*
Weight kg	*1,5*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and wrist strap
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

BILINEAR

SMARTOOL TECHNOLOGY



B450ND-BV is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B450ND-BV is suitable for crimping electrical connectors onto conductor cross sections up to 150 mm² and uses the die sets common to all CEMBRE 45 kN tools and heads.



Wide-opening head, ideal for derivations from running conductors

50kN · Li-Ion 18.0V · SPEED · HEAD OPENING · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · OVAL · INDENT · CE · UKCA

Equipped with Li-Ion 18.0V - 2.0Ah rechargeable high capacity batteries.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.
Weight and balance have been reconfigured to yield improvements in handling and convenience.
Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
It is also a feature that the operating data is stored on a memory card for transfer to PC by USB interface (SMARTOOL technology).

B500ND

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

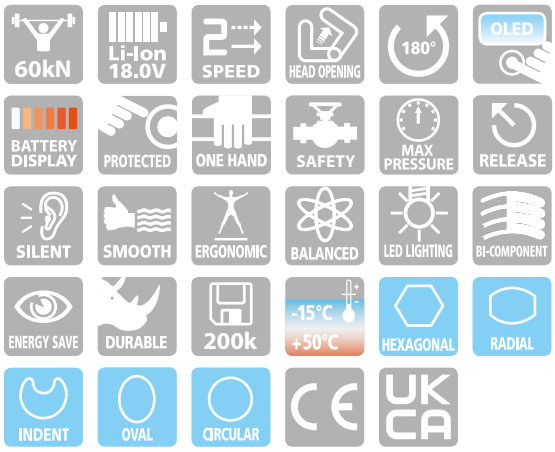
general features

Tool Type	Plug Type	Supplied Battery Charger Type
B500ND	PLUG EU	ASC55-EU with EUROPEAN plug
B500NDE	PLUG UK	ASC55-UK with UK plug
B500NDA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B500NDT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■		■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												
H.V. lugs and splices						■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



BILINEAR

SMART TECHNOLOGY RELEASE

EPS.

SMARTOOL TECHNOLOGY



TECHNICAL FEATURES

Crimping force kN	*60*
Dimensions mm	
Length	*396*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*3,15*

STORAGE

Type	*VAL-P22*
Dimensions mm L x W x H	*465 x 315 x 116*
Weight kg	*1,5*
Supplied with the tool	✓

B500ND is the first of a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. Equipped with a Smart Release system which automatically retracts the ram at the end of the operating cycle.

B500ND is suitable for crimping electrical connectors onto conductor cross sections up to 300 mm² and uses the die sets common to all CEMBRE 50kN tools and heads.

The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery, Battery charger, USB cable
- Plastic carrying case suitable for storing the tool and accessories

KIT-B500ND-1
KIT-B500ND/320F

B500ND COMPRESSION/CUTTING KIT

general features



KIT-B500ND-1

Kit includes:

B500ND cordless hydraulic tool	
VALP22 plastic carrying case with accessories	
8 die sets:	
ME5-50	Hexagonal crimp for low voltage terminals and through connectors from 25 to 185 mm² A-M family
ME7-50	
ME10-50	
ME14-50	
ME19-50	
ME24-50	
ME30-50	
ME37-50	

NEW



KIT-B500ND/320F

Kit includes::

B500ND cordless hydraulic tool	
B-TC320NDF cordless hydraulic cutting tool	
VAL-M/X5 plastic carrying case with accessories	
8 die sets:	
ME5-50	Hexagonal crimp for low voltage terminals and through connectors from 25 to 185 mm² A-M family
ME7-50	
ME10-50	
ME14-50	
ME19-50	
ME24-50	
ME30-50	
ME37-50	

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B540ND6

general features

MAIN APPLICATIONS - max section AWG

- Copper lugs and splices 300 MCM
- Aluminium lugs and splices 4/0
- Aluminium H taps 4/0 - 4/0

Tool Type	Plug Type	Supplied Battery Charger Type
B540ND6	PLUG EU	ASC55-EU with EUROPEAN plug
B540ND6E	PLUG UK	ASC55-UK with UK plug

TECHNICAL FEATURES

Crimping force kN	*54*
Dimensions mm	
Length	*495*
Height	*145*
width	*88*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery and CDD6N)	*3,4*

STORAGE

Type	*VAL-P60*
Dimensions mm L x W x H	*620 x 360 x 138*
Weight kg	*2,4*
Supplied with the tool	✓

The professional tool ideal for OH lines and residential service applications.





The tool is supplied as:

- Basic tool with jaws CDD6N, battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories



B540ND6 is the first of a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical structure. Equipped with intelligent auto-return at the end of the operating cycle (Smart Release). Equipped with Li-Ion 18.0V - 2.0Ah rechargeable high capacity batteries.
Jaws rotate by 180° for ease of operation in confined spaces.

Fitted with a maximum pressure sensor for enhanced precision and repeatability of the maximum pressure cycle, and a pressure relief valve providing additional safety for the operator.

Interchangeable Jaws
Many different CEMBRE interchangeable crimping and cutting jaws are available upon request .

CDD6N jaws



CMB4N jaws



CDD6-6N jaws



CMB5N jaws



CDD6-8N jaws



CMB6N jaws



INTERCHANGEABLE CRIMPING AND CUTTING JAWS

CAT. No	GROOVES	CRIMPING DIE COMPATIBILITY	
CDD6N	"D3" TO ACCEPT ALL "W" STYLE CRIMPING DIES + "BG" FIXED GROOVE	FCI Burndy	W, X Series
		Greenlee	KD6 Series
		Ilsco	ND Series
		Huskie	HT-58 Series
		Panduit	CD-2001 series
CDD6-6N	"D3" TO ACCEPT ALL "W" STYLE CRIMPING DIES	FCI Burndy	W, X Series
		Greenlee	KD6 Series
		Ilsco	ND Series
		Huskie	HT-58 Series
		Panduit	CD-2001 series
CDD6-8N	"D3" TO ACCEPT ALL "W" STYLE CRIMPING DIES + "O" FIXED GROOVE	FCI Burndy	W, X Series
		Greenlee	KD6 Series
		Ilsco	ND Series
		Huskie	HT-58 Series
		Panduit	CD-2001 series
CMB4N	Cutting jaws for underground: Aluminum & Copper stranded cables. Max opening 32 mm		
CMB5N	Cutting jaws for OHL: up to 200 mm² ACSR and BLX cable		
CMB6N	Cutting jaws for guy wires: Up to Ø 10 mm galvanised steel wire (<1250N/mm²)		

CEMBRE

B500

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B500	PLUG EU	ASC55-EU with EUROPEAN plug
B500E	PLUG UK	ASC55-UK with UK plug
B500A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B500T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■		■	■					
Insulated terminals				■	■	■	■	■	■	■	■										
End sleeves					■	■	■	■	■	■	■										
"C" sleeve Connectors			■	■	■	■	■	■	■												
H.V. lugs and splices						■	■	■	■	■	■	■	■	■							

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

PISTOL

EPS.

SMARTOOL TECHNOLOGY



TECHNICAL FEATURES

Crimping force kN	*63*
Dimensions mm	
Length	*300*
Height	*343*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*4,2*

STORAGE

Type	*VAL-P38*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 14 die sets



B500-KV version also available for Power Supply Companies

60kN · Li-Ion 18.0V · SPEED · HEAD OPENING · 180° · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · RADIAL · INDENT · OVAL · CIRCULAR · CE · UKCA

The 63 kN B500 is suitable for a wide range of connectors up to 300 sqmm using die sets common to the CEMBRE 50 kN tooling range.
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.
The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

B500 COMPRESSION KIT

general features

KIT-B500-1
KIT-B500-2
KIT-B500-MK





KIT-B500-MK

Kit includes:

B500 cordless hydraulic tool	
VAL-P38 plastic carrying case with accessories	
10 die sets:	
MK8-50	Hexagonal crimp for low voltage terminals and through connectors from 16 to 240 mm² DIN 46235 family
MK10-50	
MK12-50	
MK14-50	
MK16-50	
MK18-50	
MK20-50	
MK22-50	
MK25-50	
MK28-50	

KIT-B500-1

Kit includes:

B500 cordless hydraulic tool	
VAL-P38 plastic carrying case with accessories	
8 die sets:	
ME5-50	Hexagonal crimp for low voltage terminals and through connectors from 25 to 185 mm² A-M family
ME7-50	
ME10-50	
ME14-50	
ME19-50	
ME24-50	
ME30-50	
ME37-50	

KIT-B500-2

Kit includes:

B500 cordless hydraulic tool		
VAL-P38 plastic carrying case with accessories		
6 die sets:		
Nest	Indentor	Indent crimp for low voltage general purpose terminals and through connectors from 25 to 120 mm²
MA5-50	PA5-50	
MA7-50	PA10-50	
MA10-50		
MA14-50	PA19-50	
MA19-50		
MA24-50	PA24-50	

CEMBRE

B600CND

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B600CND	PLUG EU	ASC55-EU with EUROPEAN plug

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Cu DIN lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
End sleeves			■	■	■	■	■	■	■	■	■									

60kN · Li-Ion 18.0V · 2 SPEED · HEAD OPENING · 180° · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · INDENT · TRAPEZIUM · CE · UKCA

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

BILINEAR · SMART TECHNOLOGY RELEASE · EPS · SMARTOOL TECHNOLOGY



B600CND is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. Equipped with a Smart Release system which automatically retracts the ram at the end of the operating cycle. B600CND is suitable for crimping electrical connectors onto conductor cross sections up to 300 mm².
Equipped with Li-Ion 18.0V - 2.0Ah rechargeable high capacity batteries. Head rotate by 180° for ease of operation in confined spaces.
Fitted with a maximum pressure sensor for enhanced precision and repeatability of the maximum pressure cycle, and a pressure relief valve providing additional safety for the operator.

TECHNICAL FEATURES

Crimping force kN	*60*
Dimensions mm	
Length	*397*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*3,15*

The tool is supplied as:
- Basic tool with battery and wr strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable t storing the tool and accessori

STORAGE

Type	*VAL-M/L1*
Dimensions mm L x W x H	*496 x 296 x 145*
Weight kg	*2,3*
Supplied with the tool	✓



The EPS guarantees the precision of the crimping operation, checking the actual value of pressure and informing the operator about possible errors (EPS).
The OLED display provides essential real time operating data, including:
- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before.

KIT-B600CND-MK
KIT-B600CND-MH

B600CND COMPRESSION KIT

general features



NEW

The tool is supplied as:
- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

KIT-B600CND-MK

Kit includes:	
B600CND cordless hydraulic tool	
VAL-M/L1 plastic carrying case with accessories	
9 die sets:	
MK10-60C	Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² DIN 46235 family
MK12-60C	
MK14-60C	
MK16-60C	
MK18-60C	
MK20-60C	
MK22-60C	
MK25-60C	
MK28-60C	

KIT-B600CND-MH

Kit includes:	
B600CND cordless hydraulic tool	
VAL-M/L1 plastic carrying case with accessories	
9 die sets:	
MH25-60	Hexagonal crimp for low voltage terminals and through connectors from 25 to 240 mm² de 16 à 240 mm²
MH35-60	
MH50-60	
MH70-60	
MH95-60	
MH120-60	
MH150-60	
MH185-60	
MH240-60	

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B600C

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000
Cu DIN lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
L.V. lugs and splices			■	■	■	■	■	■	■	■	■	■	■	■	■					
End sleeves			■	■	■	■	■	■	■	■	■									

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

Tool Type	Plug Type	Supplied Battery Charger Type
B600C	PLUG EU	ASC55-EU with EUROPEAN plug

TECHNICAL FEATURES

Crimping force kN	*60*
Dimensions mm	
Length	*300*
Height	*350*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*4,5*

STORAGE

Type	*VAL-P39*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓

PISTOL

EPS.

SMARTOOL TECHNOLOGY





The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

60kN · Li-Ion 18.0V · BATTERY DISPLAY · SPEED · HEAD OPENING · 180° · OLED · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · INDENT · TRAPEZIUM · CE · UKCA

The B600C is a new generation of portable cordless tools that are characterized by even better functionality. The B600C is suitable for crimping cable lugs and connectors up to 300 mm².
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.
The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

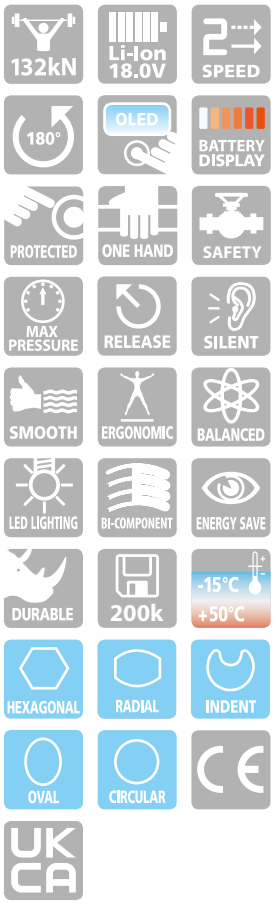
CEMBRE

B1350-C

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B1350-C	PLUG EU	ASC55-EU with EUROPEAN plug
B1350-CE	PLUG UK	ASC55-UK with UK plug
B1350-CA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1350-CT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



B1350-C is suitable for a wide range of connectors up to 400 sqmm using die sets common to the CEMBRE 130 kN tooling range.
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.
The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



PISTOL

EPS.

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Crimping force kN	*132*
Dimensions mm	
Length	*338*
Height	*344*
Width	*83*
Jaw Opening mm	*25*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*6,5*

STORAGE

Type	*VAL-P39*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 8 die sets



B1350-C-KV version also available for Power Supply Companies

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B1350L-C

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

Tool Type	Plug Type	Supplied Battery Charger Type
B1350L-C	PLUG EU	ASC55-EU with EUROPEAN plug
B1350L-CE	PLUG UK	ASC55-UK with UK plug
B1350L-CA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1350L-CT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Crimping force kN	132
Dimensions mm	
Length	395
Height	372
Width	83
Jaw Opening mm	42
Battery	18.0V 5.2Ah
Weight kg (with Battery)	8,1

STORAGE

Type	VAL-P39
Dimensions mm L x W x H	520 x 432 x 126
Weight kg	2,6
Supplied with the tool	✓



PISTOL

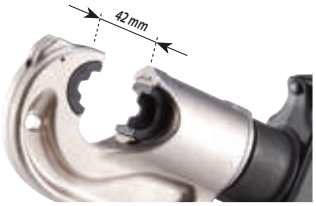
EPS.

SMARTOOL TECHNOLOGY



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 8 die sets



B1350L-C version, featuring a large 42 mm jaw opening, for an easier introduction/removal of large size compression terminations and joints.



B1350L-C-KV version also available for Power Supply Companies



B1350L-C is suitable for a wide range of connectors up to 400 sqmm using die sets common to the CEMBRE 130 kN tooling range. Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

CEMBRE

B1350-UC

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B1350-UC	PLUG EU	ASC55-EU with EUROPEAN plug
B1350-UCE	PLUG UK	ASC55-UK with UK plug
B1350-UCA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1350-UCT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■					
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364



PISTOL

EPS.

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Crimping force kN	*132*
Dimensions mm	
Length	*351*
Height	*369*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*6,3*

STORAGE

Type	*VAL-P39*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 8 die sets

132kN · Li-Ion 18.0V · SPEED · 180° · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · RADIAL · INDENT · DEEP INDENT · OVAL · CIRCULAR · CE · UKCA

B1350-UC will accept the accessories for performing the "Deep Stepped Indent" system of crimping on Aluminium cables.
The B1350-UC will accept all semi-circular slotted dies, common to most 12 tons tools (U dies).
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

STORAGE

Type	*VAL-130**
Dimensions mm L x W x H	*360 x 280 x 48*
Weight kg	*3,0*
Purchase separately	✓

**Suitable for the storage of accessories for crimping Aluminium connectors*



VAL-130

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B1300-C

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

Tool Type	Plug Type	Supplied Battery Charger Type
B1300-C	PLUG EU	ASC55-EU with EUROPEAN plug
B1300-CE	PLUG UK	ASC55-UK with UK plug
B1300-CA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1300-CT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Crimping force kN	132
Dimensions mm	
Length	406
Height	239
Width	102,5
Jaw Opening mm	25
Battery	18.0V 5.2Ah
Weight kg (with Battery)	6,8

STORAGE

Type	VAL-P44
Dimensions mm L x W x H	680 x 473 x 151
Weight kg	3,7
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 12 die sets

B1300-C is suitable for a wide range of connectors up to 400 sqmm using die sets common to the CEMBRE 130 kN tooling range.
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.



B1300-C-KV version also available for Power Supply Companies



B1300-C COMPRESSION KIT

KIT-B1300-C-1
KIT-B1300-C-2
KIT-B1300-C-MK

general features

KIT-B1300-C-1

Kit includes:

B1300-C cordless hydraulic tool	
VAL-P44 plastic carrying case with accessories	
7 die sets:	
ME10-C	Hexagonal crimp for low voltage terminals and through connectors from 50 to 240 mm² A-M family
ME14-C	
ME19-C	
ME24-C	
ME30-C	
ME37-C	
ME48-C	

KIT-B1300-C-2

Kit includes:

B1300-C cordless hydraulic tool		
VAL-P44 plastic carrying case with accessories		
11 die sets:		
Nest	Indentor	Indent crimp for low voltage general purpose terminals and through connectors from 10 to 240 mm²
MA2-C	PA10-C	
MA3-C		
MA5-C		
MA7-C		
MA10-C		
MA14-C	PA24-C	
MA19-C		
MA24-C		
MA30-C	PA48-C	
MA37-C		
MA48-C		

KIT-B1300-C-MK

Kit includes:

B1300-C cordless hydraulic tool	
VAL-P44 plastic carrying case with accessories	
11 die sets:	
MK6-C	Hexagonal crimp for low voltage terminals and through connectors from 10 to 240 mm² DIN 46235 family
MK8-C	
MK10-C	
MK12-C	
MK14-C	
MK16-C	
MK18-C	
MK20-C	
MK22-C	
MK25-C	
MK28-C	

CEMBRE

B1300L-C

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B1300L-C	PLUG EU	ASC55-EU with EUROPEAN plug
B1300L-CE	PLUG UK	ASC55-UK with UK plug
B1300L-CA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1300L-CT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

132kN · Li-Ion 18.0V · 2 SPEED · 180° · 42 mm HEAD OPENING · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · RADIAL · INDENT · OVAL · CIRCULAR · CE · UKCA

EPS. STANDARD

SMARTOOL TECHNOLOGY





TECHNICAL FEATURES

Crimping force kN	*132*
Dimensions mm	
Length	*471*
Height	*239*
Width	*102,5*
Jaw Opening mm	*42*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*8,0*

STORAGE

Type	*VAL-P44*
Dimensions mm L x W x H	*680 x 473 x 151*
Weight kg	*3,7*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 12 die sets

The B1300L-C version, featuring a large 42 mm jaw opening, for an easier introduction/removal of large size compression terminations and joints.
B1300L-C is suitable for a wide range of connectors up to 400 sqmm using die sets common to the CEMBRE 130 kN tooling range.
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.



B1300L-C-KV version also available for Power Supply Companies

18.0 V CORDLESS HYDRAULIC CRIMPING TOOL

B1300-UC

general features

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■					
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

Tool Type	Plug Type	Supplied Battery Charger Type
B1300-UC	PLUG EU	ASC55-EU with EUROPEAN plug
B1300-UCE	PLUG UK	ASC55-UK with UK plug
B1300-UCA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B1300-UCT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Crimping force kN	*132*
Dimensions mm	
Length	*423*
Height	*239*
Width	*102,5*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*6,5*



132kN · Li-Ion 18.0V · 2 SPEED · 180° · OLED · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · HEXAGONAL · RADIAL · INDENT · DEEP INDENT · OVAL · CIRCULAR · CE · UKCA

STORAGE

Type	*VAL-P44*
Dimensions mm L x W x H	*680 x 473 x 151*
Weight kg	*3,7*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and 12 die sets

STORAGE

Type	*VAL-130**
Dimensions mm L x W x H	*360 x 280 x 48*
Weight kg	*3,0*
Purchase separately	✓

**Suitable for the storage of accessories for crimping Aluminium connectors*



VAL-130

B1300-UC will accept the accessories for performing the "Deep Stepped Indent" system of crimping on Aluminium cables.
The B1300-UC will accept all semi-circular slotted dies, common to most 12 tons tools (U dies).
Equipped with Li-Ion 18.0V - 5.2Ah rechargeable high capacity batteries.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

CEMBRE

B-TC250ND

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC250ND	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC250NDE	PLUG UK	ASC55-UK with UK plug
B-TC250YNDA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/ CANADA plug
B-TC250NDT B-TC250YNDT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 25 mm

BILINEAR

SMARTOOL TECHNOLOGY



TECHNICAL FEATURES

Max cutting Ø mm	*25*
Dimensions mm	
Length	*401*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*3,5*

STORAGE

Type	*VAL-P22*
Dimensions mm L x W x H	*465 x 315 x 116*
Weight kg	*1,5*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

B-TC250ND is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B-TC250ND is specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 25 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and charger included.
Same charger of all our tools.
Operating temperature:
-15 to +50 ° C

CUTTING CAPACITY - a few examples

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) B-TC250ND B-TC250NDE B-TC250YNDA B-TC250NDT B-TC250YNDT
ROPES & CONDUCTORS	COPPER	≤ 41	25
	ALUMINIUM	≤ 20	25
	ALMELEC	≤ 34	25
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	25 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80
RODS	STEEL	≤ 60	13
		≤ 42	16
	COPPER	≤ 30	20
		≤ 25	23
	ALUMINIUM	≤ 16	25

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC320ND

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 32 mm

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC320ND	PLUG EU	**ASC55-EU** with EUROPEAN plug
B-TC320NDE	PLUG UK	**ASC55-UK** with UK plug
B-TC320NDA	PLUG USA CAN	**ASC55-USA/CA** (115V) with USA/CANADA plug
B-TC320NDT	PLUG NZ AUS	**ASC55-AUS/NZ** with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Max cutting Ø mm	*32*
Dimensions mm	
Length	*443*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*3,95*

BILINEAR

SMARTOOL TECHNOLOGY



STORAGE

Type	*VAL-M/X1*
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Ø 32mm · Li-Ion 18.0V · SPEED · SPECIAL · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

CUTTING CAPACITY - a few examples

Section mm²	Ø mm	Stranding	Cable Type
120	13,3 mm	-	*RIM120*
50	8,9	7 x 2,95 mm	*Bronze*
70	10,3	19 x 2,06 mm	*Bronze*
95	12,5	19 x 2,50 mm	*Bronze*
70	10,7	19/2,14	*Aluminium*
95	12,5	19/2,5	*Aluminium*
150	15,75	37/2,25	*Aluminium*
323	23,25	19/4,65	*Aluminium*
415	-	37/3,78	*Aluminium*
35/6	8,1	6/2,70 + 1/2,70	*Aluminium-steel*
50/8	9,6	6/3,20 + 1/3,20	*Aluminium-steel*
50/30	11,7	12/2,33 + 7/2,33	*Aluminium-steel*
70/12	11,6	26/1,85 + 7/1,44	*Aluminium-steel*
95/15	13,4	26/2,15 + 7/1,67	*Aluminium-steel*
150/25	17,3	26/2,70 + 7/2,10	*Aluminium-steel*
170/40	18,95	30/2,79 + 7/2,79	*Aluminium-steel*
185/30	19,0	26/3,00 + 7/2,33	*Aluminium-steel*
230/30	21,0	24/3,5 + 7/2,33	*Aluminium-steel*
240/40	21,9	26/3,45 + 7/2,68	*Aluminium-steel*
495/35	29,9	45/3,74 + 7/2,49	*Aluminium-steel*
297,7 (OSPREY)	22,33	18/4,47 + 1/4,47	*Aluminium-steel*
327,9 (DOVE)	23,55	26/3,72 + 7/2,84	*Aluminium-steel*
239	20,1	37/2,87	*Rope Aluminum Alloy*
50	11,0	Class 5	*Aluminium flex*
95	18,5 mm	-	*Steel flex*
153	16,0	19/3,2	*Cu*
70	19,5	2214/0,2	*Cu extra flex*
16	9,0	126/0,4	*Cu flex*
120	19,9	608/0,5	*Cu flex*
240	-	1221/0,5	*Cu flex*

B-TC320ND is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B-TC320ND is specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 32 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button. Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and charger included.
Same charger of all our tools.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC250

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC250	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC250E	PLUG UK	ASC55-UK with UK plug
B-TC250YA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC250T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

Ø 25mm · Li-Ion 18.0V · SPEED · HEAD OPENING · SPECIAL · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 25 mm



PISTOL

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø mm	25
Dimensions mm	
Length	300
Height	337
Width	83
Battery	18.0V 5.2Ah
Weight kg (with Battery)	4,65

STORAGE

Type	VAL-P40
Dimensions mm L x W x H	520 x 432 x 126
Weight kg	2,6
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 25 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CUTTING CAPACITY - a few examples

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) B-TC250 B-TC250E B-TC250YA B-TC250T
ROPES & CONDUCTORS	COPPER	≤ 41	25
	ALUMINIUM	≤ 20	25
	ALMELEC	≤ 34	25
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	25 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80
RODS	STEEL	≤ 60	13
		≤ 42	16
	COPPER	≤ 30	20
		≤ 25	23
	ALUMINIUM	≤ 16	25

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC450

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 45 mm

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC450	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC450E	PLUG UK	ASC55-UK with UK plug
B-TC450A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug

TECHNICAL FEATURES

Max cutting Ø mm	*45*
Dimensions mm	
Length	*407*
Height	*401*
Width	*88*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*6,7*

STORAGE

Type	*VAL-P40*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



PISTOL

SMARTOOL TECHNOLOGY

Ø 45mm | Li-Ion 18.0V | SPEED | HEAD OPENING | SPECIAL | 180° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | -15°C +50°C | CE | UKCA



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

CUTTING CAPACITY - a few examples

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) B-TC450 B-TC450E B-TC450A
ROPES & CONDUCTORS	COPPER	≤ 41	45
	ALUMINIUM	≤ 20	45
	ALMELEC	≤ 34	45
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	45 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80 54 x 3,50 + 19 x 2,10 : Ø est. = 31,50 54 x 4,36 + 19 x 2,62 : Ø est. = 39,20
RODS	STEEL	≤ 60	18
		≤ 42	20
	COPPER	≤ 30	30
		≤ 25	32
	ALUMINIUM	≤ 16	45

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 45 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.

The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC500Y

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC500Y	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC500YE	PLUG UK	ASC55-UK with UK plug
B-TC500YA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug

Ø 50mm · Li-Ion 18.0V · SPEED · HEAD OPENING · SPECIAL · 90° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminum, Aluminum-Steel cables (ACSR) having Ø max 50 mm

Not suitable for cutting stay wire, Steel rope or earthing rod



PISTOL

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø mm	*50*
Dimensions mm	
Length	*405*
Height	*398*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*5,8*

STORAGE

Type	*VAL-P40*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium, Aluminum-Steel cables (ACSR) having a max overall diameter of 50 mm. The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC550

overhead line application

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 55 mm



Tool Type	Plug Type	Supplied Battery Charger Type
B-TC550	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC550E	PLUG UK	ASC55-UK with UK plug
B-TC550A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC550T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Max cutting Ø mm	*55*
Dimensions mm	
Length	*441*
Height	*424*
Width	*87*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*8,9*

PISTOL

SMARTOOL TECHNOLOGY

STORAGE

Type	*VAL-P40*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Ø 55mm · Li-Ion 18.0V · 2 SPEED · HEAD OPENING · SPECIAL · 330° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

CUTTING CAPACITY - a few examples

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) B-TC550 B-TC550A B-TC550E B-TC550T
ROPES & CONDUCTORS	COPPER	≤ 41	55
	ALUMINIUM	≤ 20	55
	ALMELEC	≤ 34	55
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	22
	ACSR	≤ 180	50 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80 26 x 4,44 + 7 x 3,45 : Ø est. = 28,14 54 x 3,50 + 19 x 2,10 : Ø est. = 31,50 54 x 4,36 + 19 x 2,62 : Ø est. = 39,20 83 x 4,60 + 16 x 2,80 : Ø est. = 50,00
	GUY WIRE (GW15-9/16-188)	Extra high strenght grade	7 x 4,77 : Ø est. =14,30 mm
RODS	STEEL	≤ 60	20
		≤ 42	22
	COPPER	≤ 30	34
		≤ 25	38,5
	ALUMINIUM	≤ 16	50

Next generation of 18.0 V cordless hydraulic cutting tool Specifically designed cut Copper, Aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 55 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action. The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 330 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC320NDF

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

industrial application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC320NDF	PLUG EU	**ASC55-EU** with EUROPEAN plug
B-TC320NDFE	PLUG UK	**ASC55-UK** with UK plug
B-TC320NDFA	PLUG USA CAN	**ASC55-USA/CA** (115V) with USA/CANADA plug
B-TC320NDFT	PLUG NZ AUS	**ASC55-AUS/NZ** with AUSTRALIAN/NEW ZEALAND plug



MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 32 mm

BILINEAR

SMARTOOL TECHNOLOGY



TECHNICAL FEATURES

Max cutting Ø mm	*32*
Dimensions mm	
Length	*443*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*4,0*

STORAGE

Type	*VAL-M/X1*
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

B-TC320NDF is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B-TC320NDF is specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 32 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.
The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and charger included.
Same charger of all our tools.
Operating temperature:
-15 to +50 ° C

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC500ND-SC

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 52,5 mm

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC500ND-SC	PLUG EU	**ASC55-EU** with EUROPEAN plug
B-TC500ND-SCE	PLUG UK	**ASC55-UK** with UK plug
B-TC500ND-SCA	PLUG USA CAN	**ASC55-USA/CA** (115V) with USA/CANADA plug
B-TC500ND-SCT	PLUG NZ AUS	**ASC55-AUS/NZ** with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Max cutting Ø mm	*52,5*
Dimensions mm	
Length	*529*
Height	*135*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*3,91*

BILINEAR

SMARTOOL TECHNOLOGY



Ø 52,5mm · Li-Ion 18.0V · 2 SPEED · SPECIAL · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

STORAGE

Type	*VAL-M/X1*
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

B-TC500ND-SC is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design.
B-TC500ND-SC is specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 52,5 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.
Two batteries and charger included.
Same charger of all our tools.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC500

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

industrial application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC500	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC500E	PLUG UK	ASC55-UK with UK plug
B-TC500A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC500T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

Ø 50mm · Li-Ion 18.0V · 2 SPEED · HEAD OPENING · SPECIAL · 90° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 50 mm



PISTOL

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø mm	*50*
Dimensions mm	
Length	*405*
Height	*398*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*5,8*

STORAGE

Type	*VAL-P40*
Dimensions mm L x W x H	*520 x 432 x 126*
Weight kg	*2,6*
Supplied with the tool	✓



Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 50 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 90 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC650

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 65 mm



Tool Type	Plug Type	Supplied Battery Charger Type
B-TC650	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC650E	PLUG UK	ASC55-UK with UK plug
B-TC650A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC650T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Max cutting Ø mm	65
Dimensions mm	
Length	429
Height	415
Width	83
Battery	18.0V 5.2Ah
Weight kg (with Battery)	6,4

PISTOL

SMARTOOL TECHNOLOGY

STORAGE

Type	VAL-P40
Dimensions mm L x W x H	520 x 432 x 126
Weight kg	2,6
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Ø 65mm · Li-Ion 18.0V · 2 SPEED · HEAD OPENING · SPECIAL · 335° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 65 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action. The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 335 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC650-SC

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

industrial application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC650-SC	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC650-SCE	PLUG UK	ASC55-UK with UK plug
B-TC650-SCA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC650-SCT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

Ø 65mm · Li-Ion 18.0V · 2 SPEED · SPECIAL · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 65 mm



PISTOL

SMARTOOL TECHNOLOGY

TECHNICAL FEATURES

Max cutting Ø mm	*65*
Dimensions mm	
Length	*503*
Height	*464*
Width	*105*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*7,7*

STORAGE

Type	*VAL-B-TC950*
Dimensions mm L x W x H	*565 x 410 x 132*
Weight kg	*6,7*
Supplied with the tool	✓

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 65 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
The open head and the "scissor" movement of the blades facilitate the cutting of running cables.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Metal carrying case suitable for storing the tool and accessories

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

B-TC950

industrial application

MAIN APPLICATIONS

specifically designed to cut Copper, Aluminium and Telecommunications cable having Ø max 95 mm



PISTOL

SMARTOOL TECHNOLOGY

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC950	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC950E	PLUG UK	ASC55-UK with UK plug
B-TC950A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC950T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

Ø 95mm · Li-Ion 18.0V · SPEED · HEAD OPENING · SPECIAL · 335° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

TECHNICAL FEATURES

Max cutting Ø mm	*95*
Dimensions mm	
Length	*518*
Height	*468*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*7,8*

STORAGE

Type	*VAL-B-TC950*
Dimensions mm L x W x H	*565 x 410 x 132*
Weight kg	*6,7*
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Metal carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, Aluminium and telecommunication cable having a max overall diameter of 95 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 335 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CEMBRE

B-TC4500

18.0 V CORDLESS HYDRAULIC CUTTING TOOL

overhead line application

Tool Type	Plug Type	Supplied Battery Charger Type
B-TC4500	PLUG EU	ASC55-EU with EUROPEAN plug
B-TC4500E	PLUG UK	ASC55-UK with UK plug
B-TC4500A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TC4500T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

MAIN APPLICATIONS

specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having Ø max 45 mm

STANDARD

SMARTOOL TECHNOLOGY



TECHNICAL FEATURES

Max cutting Ø mm	45
Dimensions mm	
Length	486
Height	239
Width	103
Battery	18.0V 5.2Ah
Weight kg (with Battery)	6,44

STORAGE

Type	VAL-P54
Dimensions mm L x W x H	690 x 446 x 179
Weight kg	5,5
Supplied with the tool	✓



The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Plastic carrying case suitable for storing the tool and accessories

Ø 45mm · Li-Ion 18.0V · SPEED · HEAD OPENING · SPECIAL · 180° · BATTERY DISPLAY · PROTECTED · ONE HAND · SAFETY · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · LED LIGHTING · BI-COMPONENT · ENERGY SAVE · DURABLE · 200k · -15°C +50°C · CE · UKCA

Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to cut Copper, aldrey, Aluminium, Aluminium-Steel cables and Steel ropes, Aluminium and Steel rods having a max overall diameter of 45 mm.
The blades are manufactured from high strength special Steel, heat treated to ensure a long service life.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater cutting speed and cutting force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.

The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C

CUTTING CAPACITY - a few examples

	MATERIAL	TENSILE STRENGTH (daN/mm²)	MAX CUTTING DIAMETER (mm) B-TC4500
ROPES & CONDUCTORS	COPPER	≤ 41	45
	ALUMINIUM	≤ 20	45
	ALMELEC	≤ 34	45
	STEEL	≤ 180	INDICATIVE EXAMPLES: 7 x 3,0 : Ø est. = 9,0 mm 19 x 2,1 : Ø est. = 10,5 mm 19 x 2,3 : Ø est. = 11,5 mm
	MULTI STRANDS STEEL (STRANDS Qty ≥ 200)	≤ 180	18
	ACSR	≤ 180	45 INDICATIVE EXAMPLES: 26 x 2,50 + 7 x 1,95 : Ø est. = 15,85 26 x 3,06 + 7 x 2,38 : Ø est. = 19,38 26 x 3,60 + 7 x 2,80 : Ø est. = 22,80 54 x 3,50 + 19 x 2,10 : Ø est. = 31,50 54 x 4,36 + 19 x 2,62 : Ø est. = 39,20
RODS	STEEL	≤ 60	18
		≤ 42	20
	COPPER	≤ 30	30
		≤ 25	32
	ALUMINIUM	≤ 16	45

18.0 V CORDLESS HYDRAULIC FRAME-TYPE HOLE PUNCHING TOOL

B-FC470

general features

MAIN APPLICATIONS

specifically designed to punching holes from 15,5 up to 47,2 mm diameter

Tool Type	Plug Type	Supplied Battery Charger Type
B-FC470	PLUG EU	ASC55-EU with EUROPEAN plug
B-FC470E	PLUG UK	ASC55-UK with UK plug
B-FC470A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug

TECHNICAL FEATURES

Max hole punch Ø mm	*47,2*
Max centre of hole to edge of trunking (mm)	*53,5*
Dimensions mm	
Length	*379*
Height	*346*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*6,2*

STORAGE

Type	*VAL-FC470*
Dimensions mm L x P	*559 x 459 x 131*
Weight kg	*6,7*
Supplied with the tool	✓





The tool is supplied as:

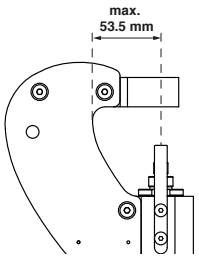
- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Metal carrying case suitable for storing the tool and accessories



Next generation of 18.0 V cordless hydraulic cutting tool specifically designed to punching holes from 15,5 up to 47,2 mm diameter in the side wall of trunking without the need for pre drilling.
New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity, while greater punch speed and punching force result from a revitalised hydraulic system with double speed action. The battery is equipped with led indicators that indicate the remaining battery life at any time by pressing the adjacent button. The head can rotate through 180 degrees, to enable the operator to work in the most comfortable position, and can easily be opened to allow cutting of running cables.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Operating temperature:
-15 to +50 ° C
Also available in the hand operated mechanical version MT-FC48N (see page 178).

Table denotes the punch/die set reference, for each hole size. Suitable for punching holes in mild Steel, fiberglass or plastic material, up to 2 mm thick.

Hole Dimensions					Maximum thickness of mild Steel (mm)	Type
Nominal Ø (mm)	Nominal Ø (inch)	Pg	ISO	Inch		
15,5	.610	Pg9	-	-	2	RD15.5SS-FC
16,2	.638	-	ISO-16	-		RD16.2SS-FC
17,5	.689	-	-	-		RD17.5SS-FC
18,8	.740	Pg11	-	-		RD18.8SS-FC
19,1	.752	-	-	-		RD19.1SS
20,5	.807	Pg 13,5	ISO-20	-		RD20.5SS
22,6	.890	Pg16	-	-		RD22.6SS
23,8	.937	-	-	5/8"		RD23.8SS
25,4	1.000	-	ISO-25	-		RD25.4SS
27,0	1.063	-	-	3/4"		RD27SS
28,5	1.122	Pg21	-	-		RD28.5SS
30,5	1.201	-	-	7/8"		RD30.5SS
31,8	1.252	-	-	-		RD31.8SS
32,5	1.279	-	ISO-32	-		RD32.5SS
34,6	1.362	-	-	-		RD34.6SS
37,2	1.464	Pg29	-	-		RD37.2SS
38,1	1.500	-	-	-		RD38.1SS
40,5	1.594	-	ISO-40	-		RD40.5SS-FC
41,3	1.626	-	-	-		RD41.3SS-FC
42,5	1.673	-	-	1"1/4"		RD42.5SS-FC
43,2	1.701	-	-	-		RD43.2SS-FC
44,5	1.752	-	-	-		RD44.5SS-FC
47,2	1.858	Pg36	-	-		RD47.2SS-FC



CEMBRE

B-FL750ND 18.0 V CORDLESS HYDRAULIC PULLER-TYPE HOLE PUNCHING TOOL

general features

Tool Type	Plug Type	Supplied Battery Charger Type
B-FL750ND	PLUG EU	ASC55-EU with EUROPEAN plug
B-FL750NDE	PLUG UK	ASC55-UK with UK plug
B-FL750NDA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-FL750NDT	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



B-FL750ND is a new generation of hand-held cordless tools, characterised by a "Bilinear" mechanical design. B-FL750ND is specifically designed for hole punching stainless Steel, mild Steel, fiberglass and plastic sheet materials up to 3,5 mm thickness. New Li-Ion 18.0V - 2.0Ah batteries offer a higher capacity, while greater punch speed and punching force result from a revitalised hydraulic system with double speed action. The battery is equipped with LED indicators that indicate the remaining battery life at any time by pressing the adjacent button.

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fiberglass and plastic sheet materials up to 3,5 mm thickness



BILINEAR

SMARTOOL TECHNOLOGY

The balanced punching head pivots 180deg through a full 360deg rotation for ease of use in confined spaces.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
For the punch-die selection chart see page 303.
Operating temperature:
-15 to +50 ° C

TECHNICAL FEATURES

Max Punching Ø mm	*140*
Dimensions mm	
Length	*467*
Height	*126*
Width	*79*
Battery	*18.0V 2.0Ah*
Weight kg (with Battery)	*4,1*

STORAGE

Type	*VAL-M/X1*
Dimensions mm L x W x H	*596 x 396 x 185*
Weight kg	*4,6*
Supplied with the tool	✓



The tool is supplied as:
- Basic tool with battery and wrist strap
- Spare battery
- Battery charger
- USB cable
- Puller TD-11
- Puller TD-19
- Spiral bit Ø 11,5 mm
- Plastic carrying case suitable for storing the tool and accessories



Universal joint allows punching head to pivot 180deg over a full 360deg rotation.

18.0 V CORDLESS HYDRAULIC PULLER-TYPE HOLE PUNCHING TOOL

B-FL750

general features

MAIN APPLICATIONS

specifically designed for hole punching stainless Steel, mild Steel, fiberglass and plastic sheet materials up to 3,5 mm thickness

Tool Type	Plug Type	Supplied Battery Charger Type
B-FL750	PLUG EU	ASC55-EU with EUROPEAN plug
B-FL750E	PLUG UK	ASC55-UK with UK plug
B-FL750A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-FL750T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

TECHNICAL FEATURES

Max Punching Ø mm	*140*
Dimensions mm	
Length	*363*
Height	*366*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*5,1*

STORAGE

Type	*VAL-P56*
Dimensions mm L x W x H	*690 x 446 x 179*
Weight kg	*5,5*
Supplied with the tool	✓

PISTOL

SMARTOOL TECHNOLOGY





Ø 140mm | Li-Ion 18.0V | SPEED | 180° | BATTERY DISPLAY | PROTECTED | ONE HAND | SAFETY | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | LED LIGHTING | BI-COMPONENT | ENERGY SAVE | DURABLE | 200k | -15°C +50°C | CE | UKCA

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger; USB cable
- Puller TD-11; Puller TD-19
- Spiral bit Ø 11,5 mm
- Plastic carrying case suitable for storing the tool and accessories

Next generation of 18.0 V cordless hydraulic tool specifically designed for hole punching stainless Steel, mild Steel, fiberglass and plastic sheet materials up to 3,5 mm thickness. New Li-Ion 18.0V - 5.2Ah batteries offer a higher capacity than 14.4 V 3 Ah, while greater punch speed and punching force result from a revitalised hydraulic system with double speed action.
The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button.
The balanced punching head pivots 180deg through a full 360deg rotation for ease of use in confined spaces.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
For the punch-die selection chart see page 303.
Operating temperature:
-15 to +50 ° C



Universal joint allows punching head to pivot 180deg over a full 360deg rotation.

CEMBRE

KIT-B-FL750-1

KIT FOR HOLE PUNCHING

general features





TECHNICAL FEATURES	
Max Punching Ø mm	*140*
Dimensions mm	
Length	*363*
Height	*366*
Width	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*5,1*

STORAGE	
Type	*VAL-P56*
Dimensions mm L x W x H	*690 x 446 x 179*
Weight kg	*5,5*
Supplied with the tool	✓

PISTOL

SMARTOOL TECHNOLOGY

The tool is supplied as:

- Basic tool with battery and shoulder strap
- Spare battery
- Battery charger
- USB cable
- Puller TD-11, Puller TD-19
- Spiral bit Ø 11,5 mm
- Plastic carrying case suitable for storing the tool and accessories

KIT-B-FL750-1

Kit includes:

B-FL750 cordless hydraulic puller-type hole punching tool	
VAL-P56 plastic carrying case with accessories	
Puller TD-11	
Puller TD-19	
spiral bit Ø 11,5 mm	
4 KIT for round punch:	
KIT-RD18.8SS	Pg11
KIT-RD20.5SS	Pg13.5
KIT-RD22.6SS	Pg16
KIT-RD28.5SS	Pg21



PUNCHING ACCESSORIES AVAILABLE

for B-FL750ND, B-FL750 and KIT-B-FL750-1

Round punch

Hole diameter					Material max thickness (mm)		Pilot hole Ø	Type	
Nominal		Pg	ISO	GAS	Stainless Steel	Mild Steel	Ø	KIT (Punch + Die)	Puller
Ø (mm)	Ø (inch)						(mm)		
15,5	.610	Pg9	-	-	2,5 mm (0.1 in.) Rm= 700 N/mm²	3,5 mm (0.14 in.) Rm= 510 N/mm²	11,5	RD15.5SS	TD-11
16,2	.638	-	ISO-16	-				RD16.2SS	
17,0	.669	-	-	G3/8"				RD17SS	
17,5	.689	-	-	-				RD17.5SS	
18,8	.740	Pg11	-	-				RD18.8SS	
19,1	.752	-	-	-				RD19.1SS	
20,5	.807	Pg 13,5	ISO-20	-				RD20.5SS	
21,5	.846	-	-	G1/2"				RD21.5SS	
22,6	.890	Pg16	-	-				RD22.6SS	
23,8	.937	-	-	G5/8"				RD23.8SS	
25,4	1.000	-	ISO-25	-				RD25.4SS	
27,0	1.063	-	-	G3/4"				RD27SS	
28,5	1.122	Pg21	-	-				RD28.5SS	
30,5	1.201	-	-	G7/8"				RD30.5SS	
28,5	1.122	Pg 21	-	-			20,0	RD28.5SS-19	TD-19
30,5	1.201	-	-	G7/8"				RD30.5SS-19	
31,8	1.252	-	-	-				RD31.8SS	
32,5	1.279	-	ISO-32	-				RD32.5SS	
34,0	1.338	-	-	G1"				RD34SS	
34,6	1.362	-	-	-				RD34.6SS	
37,2	1.464	Pg29	-	-				RD37.2SS	
38,1	1.500	-	-	-				RD38.1SS	
38,5	1.515	-	-	G1"1/8"				RD38.5SS	
40,5	1.594	-	ISO-40	-				RD40.5SS	
41,3	1.626	-	-	-				RD41.3SS	
42,5	1.673	-	-	G1"1/4"				RD42.5SS	
43,2	1.701	-	-	-				RD43.2SS	
44,5	1.752	-	-	-				RD44.5SS	
47,2	1.858	Pg36	-	-				RD47.2SS	
48,5	1.909	-	-	G1"1/2"				RD48.5SS	
50,5	1.988	-	ISO-50	-				RD50.5SS	
51,4	2.023	-	-	-				RD51.4SS	
52,4	2.063	-	-	-				RD52.4SS	
54,2	2.134	Pg42	-	G1"3/4"				RD54.2SS	
60,0	2.362	Pg48	-	G2"				RD60SS	
60,5	2.381	-	-	-				RD60.5SS	
64,0	2.520	-	ISO-63	-				RD64SS	
65,0	2.559	-	-	-				RD65SS	
76,0	2.992	-	-	G2"1/2"		3		RD76SS	
76,5	3.011	-	-	-		3,5		RD76.5SS	
80,5	3.169	-	-	-		3		RD80.5SS	
89,0	3.503	-	-	G3"		3,5		RD89SS	
90,0	3.543	-	-	-	2	3		RD90SS	
100,0	3.937	-	-	-	2	3	29,0	RD100SS	TD-28.5*
102,0	4.015	-	-	-	2	3		RD102SS	
114,0	4.488	-	-	-	2	2,5		RD114SS	
120,0	4.724	-	-	-	1,5	2		RD120SS	
140,0	5.512	-	-	-	1,5	2		RD140SS	

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 510 N/mm²

** Puller included in the kit*



Square punch

Hole diameter		Material max thickness (mm)		Pilot hole Ø	Type	Application Cable Entry Frames
Nominal		Stainless Steel	Mild Steel	Ø	KIT (Punch+die + Puller)	Type
(mm)	(inch)			(mm)		
21,0 x 21,0	.827 x .827	2,5	3,5	12,0	RD21X21	-
43,0 X 43,0	1.693 x 1.693	1,5	2,0	26,5	RD43X43 NEW	9000.Q
46,0 x 46,0	1.811 x 1.811				RD46X46	-
68,0 x 68,0	2.677 x 2.677			28,5	RD68X68	-
92,0 x 92,0	3.622 x 3.622				RD92X92	-
126,0 x 126,0	4.960 x 4.960				RD126X126	-
138,0 x 138,0	5.433 x 5.433	1,0	1,5		RD138X138	-

Rectangular punch

Hole diameter		Material max thickness (mm)		Pilot hole Ø	Type	Application Cable Entry Frames
Nominal		Stainless Steel	Mild Steel	Ø	KIT (Punch+die + Puller)	Type
(mm)	(inch)			(mm)		
18,0 x 46,0	.709 x 1.811	2,0	2,0	16,5	RD18X46	-
22,0 x 30,0	.866 x 1.181				RD22X30	-
22,0 x 46,0	.866 x 1.811				RD22X46	-
24,0 x 43,0	.945 x 1.693				RD24X43 NEW	9000.R-2
24,0 x 65,0	.945 x 2.559				RD24x65 NEW	9000.R-3
24,0 x 86,0	.945 x 3.386				RD24X86 NEW	9000.R-4
24,0 x 112,0	.945 x 4.409				RD24X112 NEW	9000.R-5
29,0 x 71,0	1.141 x 2.795				RD29X71	-
35,0 x 65,0	1.377 x 2.559			26,5	RD35X65	-
35,0 x 86,0	1.377 x 3.385				RD35X86	-
35,0 x 112,0	1.377 x 4.409				RD35X112	-
36,0 x 46,0	1.417 x 1.811				RD36X46	-
36,0 x 65,0	1.417 x 2.559				RD36X65 NEW	9000.10
36,0 x 86,0	1.417 x 3.386				RD36X86 NEW	9000.16
36,0 x 112,0	1.417 x 4.409				RD36X112 NEW	9000.24
37,0 x 54,0	1.456 x 2.125	1,5			RD37X54	-
37,0 x 67,0	1.456 x 2.637				RD37X67	-
37,0 x 88,0	1.456 x 3.464				RD37X88	-
37,0 x 104,0	1.456 x 4.094				RD37X104	-
37,0 x 115,0	1.456 x 4.527				RD37X115	-
46,0 x 54,0	1.811 x 2.126				RD46X54	-
46,0 x 65,0	1.811 x 2.559				RD46X65 NEW	9000.10
46,0 x 72,0	1.811 x 2.835				RD46X72	-
46,0 x 86,0	1811 x 3.386				RD46X86 NEW	9000.16
46,0 x 92,0	1.811 x 3.622				RD46X92	-
46,0 x 107,0	1.811 x 4.212				RD46X107	-
46,0 x 112,0	1.811 x 4.409				RD46X112 NEW	9000.24
50,0 x 98,0	1.968 x 3.858				RD50X98	-
67,0 x 126,0	2.637 x 4.960			28,5	RD67X126	-
72,0 x 136,0	2.834 x 5.354				RD72X136	-

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 510 N/mm²

"D" punch

 Hole dimensions		Material max thickness (mm)		Pilot hole Ø	Type
Nominal		Stainless Steel	Mild Steel	(mm)	KIT (Punch+die + Puller)
(mm)	(inch)				
(a)38,3 x (b)36,6	(a)1.507 x (b)1.442	2,5	3,5	18,5	RD 18D
(a)43,1 x (b)41,5	(a)1.696 x (b)1.632				RD 24D

Stainless Steel = Rm= 700 N/mm² - Mild Steel = Rm= 510 N/mm²

Use of non-CEMBRE punching accessories

Type	Punch & Die	Pilot hole Ø mm
TRD-9.4C (*)	GREENLEE 3/8" - 24 UNF	Ø 10.0
TRD-M11C (*)	BM, COSMEC (M11x1.5), IMB 9602	Ø 11.5
TD-M16C	BM, COSMEC (M16x1.5)	Ø 16.5
TD-27	BM, COSMEC (Ø105÷Ø140)	Ø 27.5
TD-14X14-M14	BM, COSMEC 46x46	Ø 18.8
TD-120X20-M20	BM, COSMEC 92x92	Ø 27.5
TD-20X20-M20 (with plug)	BM, COSMEC 42x95	Ø 27.5
TGD-13.5X13.5-M13	BM, COSMEC 40x40; 45x45; 46x46 (M13)	Ø 18.8
TGD-10X10-M9	BM, COSMEC 006505	Ø 13.8
TD-9	IMB 9601	Ø 9.5
TD-16	IMB 9603	Ø 16.5
TD-10X10-M10 (with plug)	IMB 9623	Ø 14.5
TD-14X14-M14/1"	IMB 9625	Ø 19,5
TD-20 (without plug)	IMB 9626	Ø 27.5
TD-20X20-M20-C (with plug)	IMB 9626	Ø 27.5

(*) The washer supplied with the KIT must be threaded onto the draw stud and positioned between the head and the die to allow the die to rest correctly

CEMBRE

B-TD270

18.0 V CORDLESS HYDRAULIC NUT SPLITTING TOOL

Tool Type	Plug Type	Supplied Battery Charger Type
B-TD270	PLUG EU	ASC55-EU with EUROPEAN plug
B-TD270E	PLUG UK	ASC55-UK with UK plug
B-TD270A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TD270T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

general features



B-TD270	
Crimping force kN	*100*
Dimensions mm	
Length (with tube and head)	*1.292,5*
Height	*350*
Depth	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with battery)	*5,5*

18.0 V battery operated hydraulic tool suitable for splitting fastening bushes, hexagonal and square nuts with spanner from 16 to 27 mm.

11.2 tons · Li-Ion 18.0V · 2 SPEED · BATTERY DISPLAY · PROTECTED · ONE HAND · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · BI-COMPONENT · LED LIGHTING · ENERGY SAVE · DURABLE · +5°F +122°F · CE · UKCA

B-TD410T

Tool Type	Plug Type	Supplied Battery Charger Type
B-TD410T	PLUG EU	ASC55-EU with EUROPEAN plug
B-TD410TE	PLUG UK	ASC55-UK with UK plug
B-TD410TA	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B-TD410T-T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug



B-TD410T	
Crimping force kN	*230*
Dimensions mm	
Length (with tube and head)	*1.360*
Height	*350*
Depth	*83*
Battery	*18.0V 5.2Ah*
Weight kg (with battery)	*8,8*

18.0 V battery operated hydraulic tool suitable for splitting fastening bushes, hexagonal and square nuts with spanner from 27 to 41 mm

25.8 tons · Li-Ion 18.0V · 2 SPEED · BATTERY DISPLAY · PROTECTED · ONE HAND · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · BI-COMPONENT · LED LIGHTING · ENERGY SAVE · DURABLE · +5°F +122°F · CE · UKCA

Application range

Type	HEXAGONAL NUTS mm	HEXAGONAL NUTS Ø	SQUARE NUTS mm	SQUARE NUTS Ø
B-TD270	16	M 10	17	M 10
	17	M 10	19	M 12
	18	M 12	22	M 14
	19	M 12	24	M 16
	21	M 14	27	M 18
	22	M 14		
	24	M 16		
	27	M 18	27	M 18
B-TD410T	27	M 18	27	M 18
	30	M 20	30	M 20
	32	M 22	32	M 22
	34	M 22	34	M 24
	36	M 24	36	M 27
	41	M 27		

STORAGE

Type	*CVB-030*
Dimensions mm L x W x H	*497 x 266 x 455*
Weight kg	*1,4*
Supplied with the tool	✓



HYDRAULIC PUMPS AND UNITS



PO7000

HYDRAULIC PUMP

foot operated



Foot operated double speed pump, developing a maximum pressure of 700 bar.
The pump is supplied with 3 m long high pressure flexible hose complete with female self-lock quick coupler.
Pressure can be withdrawn at any time during operation by depressing the release lever.
A solid shaped stand gives the pump stability during operation.

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*680*
width	*200*
Height	*163*
Weight kg	*9,8*

STORAGE

Type	*VAL-P21*
Dimensions mm L x W x H	*820 x 430 x 290*
Weight kg	*6,74*
Supplied with the pump	✓



CPP-0

HYDRAULIC PUMP

foot operated



The CPP-0 air hydraulic power unit intensifies an air supply of 5÷8 bar (73-115 psi) to a power crimping or cutting force of up to 700 bar (10.000 psi) depending upon the input pressure.
The control pedal allows for advancing and pressure release at any stage of the operation.
The unit is provided with a 2 m high pressure flexible hose, including a 3/8" NPT female self-lock quick coupler.

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*320*
width	*150*
Height	*200*
Weight kg	*6,8*

HYDRAULIC PUMP

powered by single-phase electric motor

CPE-1
CPE-1-110

2 SPEED | 700 bar | MAX PRESSURE | MANUAL RELEASE | DURABLE | CE | UKCA

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*372*
width	*223*
Height	*482*
Weight kg	*21*



The pump is supplied with:
- high pressure flexible hose with male and female automatic quick coupler
- remote hand controller
- external supply connection cable

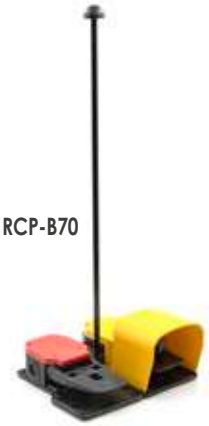
Electrically driven hydraulic pump, powered by a 230V / 50-60Hz single-phase electric motor.
The remote hand controller allows advancement and pressure release on completion of the crimping operation.
The mechanically actuated emergency button located on the pump body allows the pressure release at any time in case of power shortage.
Also available CPE-1-110 version for 110-115V / 50-60Hz.
Both models are IP 55 rated.

Available as optional accessories:
- Remote foot controller RCP-B70.
- Transportation trolley CS-CPE-1
- Control handle integrated with 3 m length flex hoses ERCH-WH

ERCH-WH



RCP-B70



CS-CPE-1



CEMBRE

B1300PL

PORTABLE ELECTRO-HYDRAULIC PUMP

battery operated

Tool Type	Plug Type	Supplied Battery Charger Type
B1300PL	PLUG EU	**ASC55-EU** with EUROPEAN plug
B1300PLE	PLUG UK	**ASC55-UK** with UK plug
B1300PLA	PLUG USA CAN	**ASC55-USA/CA** (115V) with USA/CANADA plug
B1300PLT	PLUG NZ AUS	**ASC55-AUS/NZ** with AUSTRALIAN/NEW ZEALAND plug



New portable electro-hydraulic pump B1300PL is battery operated for independent use. Having the inherent strengths of the CEMBRE 18V tool range the B1300PL is a compact, lightweight pump suitable for a wide range of applications. New Li-Ion 18 V 5.2 Ah batteries offer a high capacity, while improved operating speed results from a revitalised hydraulic system with double speed action. A security valve assures operator safety.
Designed with improved handling characteristics, B1300PL is easily manageable during the operating process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage.
Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.
Pressure can be released at any time using the appropriate button.





TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*354*
width	*103*
Height	*240*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*4,0*

STORAGE

Type	*VAL-P51*
Dimensions mm L x W x H	*690 x 446 x 179*
Weight kg	*5,5*
Supplied with the pump	✓

The B1300PL pump is supplied with:

- 0,9 m flexible hose complete with male + female 3/8" NPT self-lock quick couplers.
- 18.0 V - 4.0 Ah Li-Ion high power battery
- Battery charger
- Shoulder strap
- Plastic carrying case suitable for storing the tool and accessories, type VALP51

APPLICATION RANGE

Crimping	Cutting	Punching
up to 130 kN	up to TC 050	RH-FL75 RH-FC48N

PORTABLE ELECTRO-HYDRAULIC PUMP

B68M-P18

battery operated

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*364*
width	*186*
Height	*236*
Battery	*18.0V 5.2Ah*
Weight kg (with Battery)	*5,6*

STORAGE

Type	*CVB-031*
Dimensions mm L x W x H	*620 x 300 x 320*
Weight kg	*2,4*
Supplied with the pump	✓

Tool Type	Plug Type	Supplied Battery Charger Type
B68M-P18	PLUG EU	**ASC55-EU** with EUROPEAN plug
B68M-P18E	PLUG UK	**ASC55-UK** with UK plug
B68M-P18A	PLUG USA CAN	**ASC55-USA/CA** (115V) with USA/CANADA plug
B68M-P18T	PLUG NZ AUS	**ASC55-AUS/NZ** with AUSTRALIAN/NEW ZEALAND plug





The B68M-P18 pump is supplied with:

- Remote control provides LED working lights and an OLED display
- 2 m flexible hose complete with rotatable Q14-F quick coupler on the pump and female 3/8" NPT self-lock quick couplers
- 18.0 V - 5.2 Ah Li-Ion high power battery (2 pcs.)
- Canvas bag suitable for storing the tool and accessories
- Battery charger
- Shoulder strap



New portable electro-hydraulic pump B68M-P18 is battery operated for independent use.
Having the inherent strengths of the CEMBRE 18V tool range, the B68M-P18 is a lightweight high capacity pump equipped with an innovative remote control suitable for a wide range of applications.
New Li-Ion 18V - 5.2 Ah batteries offer a high capacity, while improved operating speed results from a revitalised hydraulic system with double speed action.
A maximum pressure sensor assures greater precision and repeatability of the pressure cycle, while a security valve doubles the provision for operator safety.
The unit has a manual pressure release button in case of emergency. Easy access to the oil reservoir is by means of an oil top-up inlet.
The innovative remote control provides LED working lights and an OLED display of essential real time tool operating information including:

- Operating mode selection
- Release mode selection: Smart release, manual release
- Minimum set pressure and momentary pressure reached expressed in bar allows verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature

The pump features a rubber pocket to store and protect the remote control.
Low noise levels aid operator comfort while additional convenience and safety are provided by LED lighting on the remote control.
Selecting the SMART release mode on the OLED display allows the operating pressure to be maintained until the operating button is released, thus allowing the operator to make a visual check of, say, the crimped connection.

APPLICATION RANGE

Crimping	Cutting	Punching
up to 230 kN	up to TC 120	RH-FL75 RH-FC48N

Example of operating information on OLED display:


Operating mode



Battery level


Release mode



No. of cycles



Pressure mode



Motor temperature



CEMBRE

PORTABLE ELECTRO-HYDRAULIC PUMPS B70M-P36 RANGE

battery operated

700 bar | Li-Ion 36.0V | SPEED | OLED | BATTERY DISPLAY | PROTECTED | ONE HAND | MAX PRESSURE | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | ENERGY SAVE | DURABLE | 200k | -15°C +50°C | CE | UK CA

SMART TECHNOLOGY RELEASE | EPS | SMARTOOL TECHNOLOGY | IP 44M EN 60529

Easily accessible oil top-up inlet



Toggle button for direct operation via the pump





Remote electrical hand or foot controller connection



High pressure hose connects to automatic self-lock quick coupling with protective cap



Automatic battery connection system





OLED multifunctional display



Smart Logo



Manual pressure release button



Pump on (constant) | In action (pulse) | End of cycle | Cycle error | Anomaly | Maintenance

New generation pumps B70M-P36 are powered by an all new 36.0V 6.2Ah Li-Ion high capacity rechargeable battery providing independence and portability.
Fitted with a maximum pressure sensor (EPS) for enhanced precision and repeatability of the maximum pressure cycle, and a pressure relief valve providing additional safety for the operator. These units feature the Smart Release system which automatically retracts the ram at the end of the operating cycle. The manual toggle button can be used to operate and release the pressure directly from the pump. (inhibited when the remote control is used for safety reasons). Oil top-up inlet for easy access to the oil reservoir.
Extremely compact and suitable for a wide range range of applications.
The CEMBRE logo acts as an indicator by changing colour to provide the operator with instantaneous visual confirmation of the pumps status, such as; pump ready, pump in use, end of cycle, cycle error, anomaly, maintenance required.
The new design and ergonomic weight distribution allows the pump to be easily handled during use.

The rigid structure of the plastic body ensures adequate mechanical protection and guarantees IP44M protection due to the presence of gaskets at the interface of the body shells.
The ergonomically designed handle helps to increase operator comfort when moving the pump.
Quieter operation, and the absence of vibrations ensure maximum operator comfort. Equipped with a 3m long high pressure hose complete with a male quick coupling on the pump and a self-locking female quick coupling. The pressure can be released at any time using the pressure release button.

The unit features an OLED display to provide essential real time tool operating information including:

- Operating mode selection (cutting, crimping or piercing)
- Release mode selection (Smart release, manual release)
- Minimum set pressure and snapshot pressure reached in bar/psi to allow verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature
- Operational command (hand controller or manual on the pump)



Can be used in vertical or horizontal position

PORTABLE ELECTRO-HYDRAULIC PUMP

B70M-P36

battery operated

B70M-P36

1. Portable electro-hydraulic pump, 36V battery for independent use, developing 700 bar pressure
2. CB3680L Battery 36 V - 8.0 Ah Li-Ion
3. ASC145-EU External battery charger
4. USB cable
5. Shoulder strap
6. CVB-037 Canvas rucksack for carrying accessories
7. 3 m flexible hose complete with male + female 3/8" NPT self-lock quick couplers
8. ERCH Remote control



Tool Type	Plug Type	Supplied Battery Charger Type
B70M-P36	PLUG EU	ASC55-EU with EUROPEAN plug
B70M-P36E	PLUG UK	ASC55-UK with UK plug
B70M-P36A	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug
B70M-P36T	PLUG NZ AUS	ASC55-AUS/NZ with AUSTRALIAN/NEW ZEALAND plug

APPLICATION RANGE

Crimping	Cutting	Punching
up to 520 kN	up to TC120	RH-FL75 RH-FC48N

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*405*
width	*161*
Height	*335*
Battery	*36V 6.2Ah*
Weight kg (with Battery)	*10.3**

**without accessories*

PORTABLE ELECTRO-HYDRAULIC PUMP

B70M-P36-CH

battery operated

B70M-P36-CH

1. Portable electro-hydraulic pump, 36V battery for independent use, developing 700 bar pressure
2. CB3680L Battery 36 V - 8.0 Ah Li-Ion
3. ASC145-EU External battery charger
4. USB cable
5. Shoulder strap
6. CVB-037 Canvas rucksack for carrying accessories
9. ERCH-WH Remote hand controller integrated with 3 m length flexible hose complete with male + female 3/8" NPT self-lock quick couplers



Tool Type	Plug Type	Supplied Battery Charger Type
B70M-P36-CH	PLUG EU	ASC55-EU with EUROPEAN plug
B70M-P36E-CH	PLUG UK	ASC55-UK with UK plug
B70M-P36A-CH	PLUG USA CAN	ASC55-USA/CA (115V) with USA/CANADA plug

APPLICATION RANGE

Crimping	Cutting	Punching
up to 520 kN	up to TC120	RH-FL75 RH-FC48N

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*405*
width	*161*
Height	*335*
Battery	*36V 6.2Ah*
Weight kg (with Battery)	*10.3**

**without accessories*

Variously supplied with different versions:



CEMBRE

ACCESSORIES FOR B70M-P36

purchase separately

TRS-B70
Canvas rucksack
(for carrying the pump)



ERCH-WH
Remote hand controller integrated with 3 m length flexible hose







SH-B70
Hook for hanging the pump from a ladder

VAL-P18
Durable transport case for pump and accessories.



RCP-B70
Portable remote foot control



COMBINATIONS OF PUMPS AND HYDRAULIC HEADS

		HYDRAULIC PUMPS						
		PO7000	CPE1	CPP-0	B1300PL	B68M-P18	B70M-P36	B70M-P36-CH
HYDRAULIC HEADS	RH50 RHM50	✓	✓	✓	✓	✓	✓	✓
	RH60C	✓	✓	✓	✓	✓	✓	✓
	RH61	✓	✓	✓	✓	✓	✓	✓
	RHC131 RHM132	✓	✓	✓	✓	✓	✓	✓
	RHC131LN	✓	✓	✓	✓	✓	✓	✓
	RHU131	✓	✓	✓	✓	✓	✓	✓
	ECW-H3D	✓	✓	✓	-	✓	✓	✓
	RHU450	✓	✓	✓	-	-	✓	✓
	RHU520	✓	✓	✓	-	-	✓	✓
	TC025	✓	✓	✓	✓	✓	✓	✓
	TC04N	✓	✓	✓	✓	✓	✓	✓
	TC050	✓	✓	✓	✓	✓	✓	✓
	TC055	✓	✓	✓	-	✓	✓	✓
	TC065SC	✓	✓	✓	-	✓	✓	✓
	TC085	✓	✓	✓	-	✓	✓	✓
	TC096	✓	✓	✓	-	✓	✓	✓
	TC120	✓	✓	✓	-	✓	✓	✓
	RH-FL75	✓	✓	✓	✓	✓	✓	✓
	RHT160 RHT160-60N	✓	✓	✓	✓	✓	✓	✓
	RHTD...	✓	✓	✓	✓	✓	✓	✓

HYDRAULIC UNIT

CP1131

pump PO7000 + head RHC131



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
H.V. lugs						■	■	■	■	■	■	■	■	■	■	■	■				
*H.V. Splices**						■	■	■	■	■	■	■	■	■	■	■	■				

*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

TECHNICAL FEATURES

Crimping force kN	*130*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*232 x 124*
length flexible hose	*3 m*
Weight unit kg	*13,6*

STORAGE

Type	*VAL-P21**
Dimensions mm L x W x H	*820 x 430 x 290*
Weight kg	*6,74*
Supplied with the unit	✓

*Supplied with the unit, suitable for storage of 24 semi-circular slotted dies







HYDRAULIC UNIT

CPU1131-C

pump PO7000 + head RHU131-C



MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■				
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■						
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■								
Alu lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■					
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■				

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364

TECHNICAL FEATURES

Crimping force kN	*130*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*245 x 89*
length flexible hose	*3 m*
Weight unit kg	*13,5*

STORAGE

Type	*VAL-P21**
Dimensions mm L x W x H	*820 x 430 x 290*
Weight kg	*6,74*
Supplied with the unit	✓

*Supplied with the unit, suitable for storage of 24 semi-circular slotted dies and accessories for crimping Aluminium connectors







CEMBRE

CPU1230-3D

HYDRAULIC UNIT

pump PO7000 + head ECW-H3D

230kN | 700 bar | SPEED | MAX PRESSURE | MANUAL RELEASE | DURABLE | HEXAGONAL | OVAL | RADIAL | INDENT

MAIN APPLICATIONS - max section sqmm

Section sqmm	0.25÷1.5	1.5÷2.5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000
L.V. lugs and splices				■	■	■	■	■	■	■	■	■	■		■	■	■	■	■		
Insulated terminals				■	■	■	■	■	■	■	■	■	■		■	■					
"C" sleeve Connectors				■	■	■	■	■	■	■	■	■	■		■						
H.V. lugs and splices						■	■	■	■	■	■	■	■	■	■	■	■	■	■		

These tools are supplied without dies. For die selection, please refer to chart on pages 348 to 364





**Supplied with the unit, suitable for storage of 24 semi-circular slotted dies and adaptors and dies specific for head ECW-H3D*

TECHNICAL FEATURES	
Crimping force kN	*230*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*290 x 120*
Length flexible hose	*3 m*
Weight unit kg	*15,3*

STORAGE	
Type	*VAL-P21**
Dimensions mm L x W x H	*820 x 430 x 290*
Weight kg	*6,74*
Supplied with the unit	✓

CP1096

HYDRAULIC CUTTING UNIT

pump PO7000 + head TC096

Ø 95mm | 700 bar | SPEED | MAX PRESSURE | MANUAL RELEASE | DURABLE



TECHNICAL FEATURES	
Max cutting Ø mm	*95*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*397 x 249*
Length flexible hose	*3 m*
Weight unit kg	*17,7*

STORAGE	
Type	*VAL-CP096*
Dimensions mm L x W x H	*785 x 430 x 175*
Weight kg	*10,0*
Supplied with the unit	✓

CP1120

HYDRAULIC CUTTING UNIT

pump PO7000 + head TC120

Ø 120mm | 700 bar | SPEED | MAX PRESSURE | MANUAL RELEASE | DURABLE



TECHNICAL FEATURES	
Max cutting Ø mm	*120*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*536 x 175*
Length flexible hose	*3 m*
Weight unit kg	*19,3*

STORAGE	
Type	*VAL-22-TC120*
Dimensions mm L x W x H	*766 x 305 x 191*
Weight kg	*8,3*
Supplied with the unit	✓

HYDRAULIC CUTTING UNITS

CP-W-KV

according to DIN EN 50340 - VDE 0682 part 661

GS approval n. ET 23008

Hydraulic units provide protection against short circuit when accidentally cutting live L.V. / M.V. cables with nominal voltage up to 60 kV.

Ø 85mm | Ø 95mm | Ø 120mm | 60kV | INSULATED | 625 bar | SPEED | MAX PRESSURE | MANUAL RELEASE | DURABLE

CP 1086-W-1000-KV

TECHNICAL FEATURES

Max cutting Ø mm	*85*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*405 x 143*
Length flexible hose	*10 m*
Weight unit kg	*16,6*



CP 1096-W-1000-KV

TECHNICAL FEATURES

Max cutting Ø mm	*95*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*407 x 245*
Length flexible hose	*10 m*
Weight unit kg	*19,0*



CP 1120-W-1000-KV

TECHNICAL FEATURES

Max cutting Ø mm	*120*
Dimensions mm	
Dimensions pump L x W x H	*680 x 200 x 163*
Dimensions head L x H	*556 x 185*
Length flexible hose	*10 m*
Weight unit kg	*20,2*



Available as optional accessories:

- EK100 earth cable for the pump (1 m length)
- EK500P earth cable for the head (5 m length) with earth rod and canvas bag



EK 500P

EK 100

STORAGE

Type	*VAL-CP096-W*
Dimensions mm L x W x H	*785 x 430 x 175*
Weight kg	*10,0*
Supplied with the unit	✓



CEMBRE

CP1300P-KV

PORTABLE BATTERY HYDRAULIC CUTTING UNITS

insulated

NEW · Ø 85mm · Ø 95mm · Ø 120mm · 700 bar · ISOLATED · Li-Ion 18.0V · 2 SPEED · OLED · BATTERY DISPLAY · PROTECTED · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · DURABLE · ENERGY SAVE · 200k · -15°C +50°C · CE · UKCA

The CP1300P...-KV insulated units fit between the CP-W-KV pedal units and the B68-RC3 radio-controlled units to best meet customer needs. They are composed of 2 elements, the pump common to all cutting heads, and the heads.

The battery-powered pump for autonomous use is among the lightest on the market; powered by 18V - 8Ah lithium ion batteries, they provide high capacity while a double-speed hydraulic system guarantees rapid execution of the work cycle. The steel body guarantees longevity, the extreme compactness makes it versatile in use. The electronic system is designed to avoid running out of battery while cutting cables.

The heads are instead designed to cover the most common range of cables with 2 guillotine versions (85 and 120) and a scissor version (96). Body and blades are made of special heat-treated steel to ensure longevity and sturdiness during the cutting operation.

Pump and heads are both equipped with an earthing point to better adapt to the procedures of each individual utility.

Like all CEMBRE KV type equipment, they require the use of special dielectric oil.



CP1300P-85-KV

CP1300P-85-KV

TECHNICAL FEATURES

Max cutting Ø mm	85
Dimensions mm	
Dimensions pump L x W x H	377 x 102 x 239
Dimensions head L x H	405 x 143
Length flexible hose	10 m
Weight unit kg	11.6



CP1300P-96-KV

CP1300P-96-KV

TECHNICAL FEATURES

Max cutting Ø mm	95
Dimensions mm	
Dimensions pump L x W x H	377 x 102 x 239
Dimensions head L x H	407 x 245
Length flexible hose	10 m
Weight unit kg	14.6



CP1300P-120-KV

CP1300P-120-KV

TECHNICAL FEATURES

Max cutting Ø mm	120
Dimensions mm	
Dimensions pump L x W x H	377 x 102 x 239
Dimensions head L x H	556 x 185
Length flexible hose	10 m
Weight unit kg	15.4

The 10m high pressure hose is connected to the heads in a fixed manner while the connection to the pump is quick with a locking ring, to avoid accidental disconnection.



CVB-031

STORAGE

Type	VAL-CP096-W
Dimensions mm L x W x H	785 x 430 x 175
Weight kg	10,0
Supplied with the unit	✓





EK500P



EK100

Available as optional accessories:

- **CVB-031** Canvas bag
- **EK100** Earth cable for the pump (1 m length)
- **EK500P** Earth cable for the head (5 m length) with earth rod and canvas bag

PORTABLE BATTERY HYDRAULIC CUTTING UNITS

B68RC3

radio controlled - for remote cutting operations









Ø 85mm | Ø 95mm | Ø 120mm | 700 bar | ISOLATED | Li-Ion 18.0V | SPEED | OLED | BATTERY DISPLAY | PROTECTED | MAX PRESSURE | RELEASE | SILENT | SMOOTH | ERGONOMIC | BALANCED | DURABLE | ENERGY SAVE | 200k | -15°C +50°C | CE | UKCA

Tool Type	Plug Type	Supplied Battery Charger Type
B68RC3-85 B68RC3-96 B68RC3-120	PLUG EU	ASC55-EU with EUROPEAN plug
B68RC3-85E B68RC3-96E B68RC3-120E	PLUG UK	ASC55-UK with UK plug

The heart of each unit is the new portable pump B68M-P18-KV-RC3, battery operated for independent use. Having the inherent strengths of the CEMBRE 18V tool range, the B68M-P18-KV-RC3 is a lightweight high capacity pump equipped with an innovative radio remote control designed specifically for man-hole environments to allow operators to control and operate the pump out of the man-hole at a safe distance.
New Li-Ion 18V - 8Ah batteries provide high capacity while improved operating speed results from a revitalized hydraulic system with double speed action.
A maximum pressure sensor assures greater precision and repeatability of the pressure cycle, while a security valve doubles the provision for operator safety.
The unit is fitted with a patented unique system for stopping the pump when the cutting head sensor signals that its blades have travelled fully.
At this point the LED indicator and buzzer notify the operator of the successful completion of the cutting operation. For this reason, each pump is paired to its specific cutting head only and it must be considered as a complete unit.
The innovative remote control function is able to work in man-hole environment where radio communication is normally more complicated.
The unit features an OLED display to provide essential real time tool operating information including:

- Operating mode selection (cutting or crimping)
- Release mode selection (Smart release, manual release)
- Minimum set pressure and momentary pressure reached in bar/psi to allow verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature
- Operating command (radio or manual).

Available as optional accessories:

- **CVB-031** Canvas bag
- **EK100** Earth cable for the pump (1 m length)
- **EK500P** Earth cable for the head (5 m length) with earth rod and canvas bag



CVB-031



EK500P



EK100

Supplied with:

- **Radio remote control** (2405 ÷ 2480 MHz)
- **CB1880L**, Li-Ion 18.0 V 8.0 A h Battery (2 pcs)
- **ASC55-EU**, Battery charger
- 10 m length high pressure flexible hose
- USB cable
- Shoulder strap
- **VAL-B68RC3** Metal Carring Case

STORAGE

Type	*VAL-B68RC3*
Dimensions mm L x W x H	*665 x 422 x 260*
Weight kg	*17,4*
Supplied with the unit	✓

B68RC3-85

TECHNICAL FEATURES

Max cutting Ø mm	*85*
Dimensions mm	
Dimensions pump L x W x H	*417 x 236 x 212*
Dimensions head L x H	*409 x 174 x 140*
Weight unit kg	*13,68*

B68RC3-96

TECHNICAL FEATURES

Max cutting Ø mm	*95*
Dimensions mm	
Dimensions pump L x W x H	*417 x 236 x 212*
Dimensions head L x H	*498 x 249 x 147*
Weight unit kg	*17,24*

B68RC3-120

TECHNICAL FEATURES

Max cutting Ø mm	*120*
Dimensions mm	
Dimensions pump L x W x H	*417 x 236 x 212*
Dimensions head L x H	*536 x 223 x 140*
Weight unit kg	*18,44*



CEMBRE

B68M-P18-KV-RC1

PORTABLE BATTERY INSULATED HYDRAULIC PUMP

radio controlled

700 bar · INSULATED · Li-Ion 18.0V · 2 SPEED · OLED · BATTERY DISPLAY · PROTECTED · MAX PRESSURE · RELEASE · SILENT · SMOOTH · ERGONOMIC · BALANCED · DURABLE · ENERGY SAVE · 200k · -15°C +50°C · CE · UKCA

RRC · SAFECUT TECHNOLOGY SAFECUT · SMART TECHNOLOGY RELEASE · SMARTOOL TECHNOLOGY SMARTOOL





New portable battery hydraulic pump B68M-P18-KV-RC1 is battery operated for independent use.
Extremely compact and light in weight, it is suitable for a wide range of applications.
The B68M-P18-KV-RC1 is a lightweight high capacity pump equipped with an innovative radio remote control designed specifically for man-hole environments to allow operators to control and operate the pump out of the manhole at a safe distance.
The LED indicator and buzzer notify the operator of the successful completion of the cutting or crimping operation.

The manual toggle button can be used to operate and release the pressure directly from the pump (inhibited when the remote control is used for safety reasons).
Fast compression or cutting speeds are guaranteed by a two-speed hydraulic system; it is also equipped with a pressure sensor and a safety valve, the first to guarantee greater precision and repeatability of the maximum cycle pressure, the second as a redundant safety element for the operator.
The ergonomically designed handle helps to increase operator comfort when moving the pump.

The plastic material body ensures adequate mechanical protection in all conditions of use, thanks to its rigid structure; greater safety and comfort in handling, thanks to the ergonomic handle.
It is equipped with an automatic locking female quick coupling with I38-F safety ring nut for the connection of flexible hoses with high dielectric power.
The pressure can be released at any time using the pressure release button.

The unit features an OLED display to provide essential real time tool operating information including:
- Operating mode selection (cutting or crimping)
- Release mode selection (Smart release, manual release)
- Minimum set pressure and momentary pressure reached in bar/psi to allow verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature
- Operating command (radio or manual).

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*350*
width	*212*
Height	*236*
Battery	*18.0V 8.0Ah*
Weight kg (with Battery)	*6*

STORAGE

Type	*CVB-031*
Dimensions mm L x W x H	*620 x 300 x 320*
Weight kg	*2,4*
Supplied with the pump	✓

Supplied with:
- **Radio remote control** (2405 ÷ 2480 MHz)
- **CB1880L**, Li-Ion 18.0 V 8.0 A h Battery (2 pcs)
- **ASC55-EU**, Battery charger
- USB cable
- Shoulder strap
- **CVB-031** Canvas bag



CVB-031



LED indicators and buzzer



OLED multifunctional display



Automatic battery connection system



Pressure release button

PORTABLE ELECTRO-HYDRAULIC INSULATED PUMP

B1300PK-KV

battery operated

TECHNICAL FEATURES

Operating pressure bar	*700*
Dimensions mm	
Length	*377*
width	*102*
Height	*239*
Battery	*18.0V 8.0Ah*
Weight kg (with Battery)	*4,0*





The B1300P-KV pump is supplied with:

- 18.0 V - 8.0 Ah Li-Ion high power battery (1 pcs)
- Battery charger
- Shoulder strap

APPLICATION RANGE

Crimping	Cutting	Punching
up to 130 kN	up to TC 050	RH-FL75 RH-FC48N

New B1300P-KV portable electro-hydraulic insulated pump powered by Li-Ion 18V - 8.0Ah battery having the same characteristics as the B1300PL version except for the insulated oil and the insulated female quick coupling with automatic locking I38-F.

The unit features an OLED display to provide essential real time tool operating information including:

- Minimum set pressure and momentary pressure reached in bar/psi to allow verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- CEMBRE logo, tool model and serial number.

The pump can be connected to hydraulic heads and insulated flexible hoses (supplied on request) equipped with I38 series quick coupling (see page 346)



Ergonomic shape for optimal comfort



OLED multifunctional display



Automatic battery connection system



Insulated female quick coupling with automatic locking I38-F

CEMBRE

CB BH ASC CFC BPS

Accessories for cordless tools



CB1820L



CB1852L
CB1880L



CB3662L
CB3680L



CB1430L



CB1430H



CB9630H



BH2433

battery

	Type	Description	Technology	Ah	V
STANDARD	CB1820L	CB1820L 18V-2.0Ah battery	Li-Ion	2.0	18
	CB1852L	CB1852L 18V-5.2Ah battery	Li-Ion	5.2	18
	CB1880L	CB1880L 18V-8.0Ah battery	Li-Ion	8.0	18
	CB3662L	CB3662L 36V-6.2Ah battery	Li-Ion	6.2	36
	CB3680L	CB3680L 36V-8.0Ah battery	Li-Ion	8.0	36
ON REQUEST	CB1430L	CB1430L 14.4V-3.0Ah battery	Li-Ion	3.0	14.4
	CB9630H	CB9630H 9.6V-3.0Ah battery	Ni-MH	3.0	9.6
	CB1430H	CB1430H 14.4V-3.0Ah battery	Ni-MH	3.0	14.4
	BH2433	BH2433 24V-3.3Ah battery	Ni-MH	3.3	24



ASC55-EU
ASC55-UK
ASC55-USA/CA
ASC55-AUS/NZ



ASC145-EU
ASC145-UK
ASC145-USA/CA
ASC145-AUS/NZ



ASC145DUO-EU
ASC145DUO-UK
ASC145DUO-USA/CA



ASC55-MULTI8-EU
ASC55-MULTI8-US

battery charger



CFC230N
CFC120YN

Type	Description	V
ASC55-EU / ASC55-UK / ASC55-AUS/NZ	battery charger 220-240V 50-60Hz	18
ASC55-USA/CA	battery charger 115V 60Hz	18
ASC145-EU / ASC145-UK / ASC145-AUS/NZ	battery charger 220-240V 50-60Hz	10.8 - 36
ASC145-AUS/NZ	battery charger 115V 60Hz	10.8 - 36
ASC145DUO-EU / ASC145DUO-UK	battery charger 220-240V 50-60Hz	12 - 36
ASC145DUO-USA/CA	battery charger 115V 60Hz	12 - 36
ASC55-MULTI8-EU	8 position multiple charger 220-240V 50-60Hz	12 - 36
ASC55-MULTI8-US	8 position multiple charger 110V 60Hz	12 - 36
CFC230N	battery charger 230V AC	14.4
CFC120YN	battery charger 120V AC	14.4



BPS230-9.6



BPS230.14

power supplies

Type	Description	V
BPS230-9.6	BPS230.96 (230V -9.6V) power supplies	9.6
BPS230.14	BPS230.14 (230V -14.4V) power supplies	14.4



6000354

others



6006309

Type	Description
6000354	Shoulder strap for battery tools
6006309	USB2.0/MINI USB B M-M 1.8 m cable black

Battery and battery charger kit

KIT

KIT Type	Description	Battery				Battery charger Type
		Type	Q.ty	Ah	V	
KIT-1820.EU/2	2 batteries + 1 battery charger	CB1820L	2	2.0	18	ASC55-EU
KIT-1820.EU/1	1 battery + 1 battery charger	CB1820L	1	2.0	18	ASC55-EU
KIT-1852.EU/2	2 batteries + 1 battery charger	CB1852L	2	5.2	18	ASC55-EU
KIT-1852.EU/1	1 battery + 1 battery charger	CB1852L	1	5.2	18	ASC55-EU
KIT-1880.EU/2	2 batteries + 1 battery charger	CB1880L	2	8.0	18	ASC55-EU
KIT-1880.EU/1	1 battery + 1 battery charger	CB1880L	1	8.0	18	ASC55-EU



Accessories for storage of dies

VAL





carring case - bags

Type	Description
VALMAT	Metal carrying case suitable for the storage of semicircular dies
VALMAT-230-630	Metal carrying case suitable for the storage of accessories for crimping Aluminium connectors
VALMAT-520	Metal carrying case suitable for storage of 10 sets of hexagonal dies for the head RHU520
VAL-130	Metal carrying case suitable for the storage of accessories for crimping Aluminium connectors
VAL-75	Plastic case suitable for containing tool dies for HT81-U; RHU81; RH50; RHM50
CVB-013	Canvas bag

Transport accessories



canvas bag - trolley

Type	Description
CVB-030	Canvas bag for carrying tools and accessories
CVB-031	Canvas bag for the transport of pump and accessories
CVB-037	Canvas rucksack for transporting pump and accessories
VAL-P18	Wheeled transport case for pump and accessories
CTSB2	Modular bag for transporting tools and accessories
RPL01-M	Rollplate for VAL-M... cases
VAL-M/KIT1	Case for transporting connectors and accessories - dimensions 252x167xh63
VAL-M/KIT2	Case for transporting connectors and accessories - dimensions 440x346xh95
VAL-M/KIT2-8	Case with 8 compartments for transporting connectors and accessories - dimensions 440x346xh95



TF

Accessories for non-insulated hydraulic pumps



TF..-..



ERCH-WH

non-insulated flexible hoses (extensions)

Type	Length m	Quick Coupler	Description
TF300-Q38FM	3	F/M	High pressure flexible hose fitted with automatic quick couplers
TF600-Q38FM	6	F/M	High pressure flexible hose fitted with automatic quick couplers
TF200-Q14FM	2	F/M	High pressure flexible hose fitted with automatic quick couplers
TF500-Q38FM	5	F/M	High pressure flexible hose fitted with automatic quick couplers
TF1000-Q38FM	10	F/M	High pressure flexible hose fitted with automatic quick couplers
ERCH-WH	3	F/M	Remote hand controller integrated with high pressure flexible hose complete with automatic quick couplers for B70M-P36; CPE-1

Q-M, Q-F

Quick couplers for non-insulated flexible hoses



Q14-MS



Q38-F



Q38-MS

Q14-MS
Male automatic coupler for hydraulic heads (1/4" NPT).

Q38-F
Female automatic coupler with safety ring for hydraulic pumps and flexible hoses (3/8" NPT).

Q38-MS
Male automatic coupler for flexible hoses (3/8" NPT).

TF-I

Accessories for insulated hydraulic pumps



TF..-I..

insulated flexible hoses (extensions)

Type	Length m	Insulated Quick Coupler	Description
TF1000-I38FM-KVE	10	F/M	10 m long high pressure flexible hose equipped with insulated oil with high dielectric power and with "insulated" type quick couplers with automatic locking, complete with case
TF500-I38FM-KV	5	F/M	5 m long high pressure flexible hose equipped with insulated oil with high dielectric power and with "insulated" type quick couplers with automatic locking

I-F, I-M

Quick couplers for insulated flexible hoses



I38-F



I38-MS

I38-F
Female automatic coupler with safety ring for insulated hydraulic pumps and flexible hoses (3/8" NPT).

I38-MS
Male automatic coupler for insulated flexible hoses (3/8" NPT).

MBS-RH

Accessory for hydraulic heads

NEW



The MBS-RH bench vice has been designed to clamp the high pressure hose via the female quick coupling and securely and stably fix the CEMBRE hydraulic heads for compression and cutting to the bench.



TECHNICAL FEATURES

Dimensions mm	
width	*80*
Height	*190*
Max. height fixing to the table	*600*
Min. height fixing to the table	*200*
Weight kg	*2,174*

DIE SELECTOR CHART



DIE SELECTOR CHART

APPLICATION	CONDUCTOR		CONNECTOR				HYDRAULIC TOOLS						
							B15MD	HT45-E B450ND-BV			HT51 RH50 B500 B500ND		
	Conductor Size sqmm		TERMINAL			SPLICE	DIE SET	NEST	INDEN-TOR	DIE SET	NEST	INDEN-TOR	DIE SET
	Low Str.	Flex											
COPPER CONDUCTORS													
A..-M..	0,25 ÷ 2,5		A 03-M.. A 06-M..			L 03-M / L 03-P L 06-M / L 06-P	ME03/2-15 ① MA03/3-15						
A..-2M..	4 ÷ 6		A 1-M.. A 1-L..			L 1-M L 1-P	ME03/2-15 ① MA03/3-15	MA1	PA1	ME1 ①	MA1-50	PA1-50	ME1-50 ①
A..-L..	10		A2-M.. A2-L.. A2-P12 A2-U..	A2-2M..		L 2-M L 2-P	ME03/2-15 ① ME2/3-15 ① MA03/3-15	MA2.3	PA5	ME2 ①	MA2.3-50	PA5-50	ME2-50 ①
	16		A3-M.. A3-L.. A3-P14 A3-P22R.. A3-U..	A3-2M..	2A 3-M..	L 3-M L 3-P	ME2/3-15 ① MA03/3-15			ME3 ①			ME3-50 ①
A..-P..	25		A5-M.. A5-L.. A5-P16 A5-P22R..	A5-2M..	2A 5-M..	L 5-M L 5-P		MA5		ME5 ①	MA5-50		ME5-50 ①
A..-PR..	35	25* 35	A 7-M.. A 7-L.. A 7-P20	A7-2M..	2A 7-M..	L 7-M L 7-P		MA7	PA10	ME7 ①	MA7-50	PA10-50	ME7-50 ①
A..-U..	50	35* 50	A 10-M.. A 10-L.. A 10-P25	A10-2M..	2A 10-M.. 2A10-2M..	L 10-M L 10-P		MA10		ME10 ②	MA10-50		ME10-50 ②
	70	50* 70	A 14-M.. A 14-L..	A14-2M..	2A 14-M.. 2A14-2M..	L 14-M L 14-P				ME14 ②	MA14-50	PA19-50	ME14-50 ②
			A 14-P30							ME17 ②			ME17-50 ②
2A..-M..	95	70* 95	A 19-M.. A 19-L..	A19-2M..	2A 19-M.. 2A19-2M..	L 19-M L 19-P				ME19 ②	MA19-50		ME19-50 ②
	120	95* 120	A 24-M.. A 24-L..	A24-2M..	2A 24-M.. 2A24-2M..	L 24-M L 24-P				ME24 ②	MA24-50	PA24-50	ME24-50 ②
	150	120* 150	A 30-M.. A 30-L..	A30-2M..	2A 30-M.. 2A30-2M..	L 30-M L 30-P				ME30 ③			ME30-50 ③
2A..-2M..	185	150* 185	A 37-M.. A 37-L.. A 37-4ESI	A37-2M..	2A 37-M.. 2A37-2M..	L 37-M L 37-P							ME37-50 ③
	240	185* 240	A 48-M.. A 48-L.. A 48-4ESI	A48-2M..	2A 48-M.. 2A48-2M..	L 48-M L 48-P							ME48-50 ③
L..-M..	300	240 300	A 60-M.. A 60-L.. A 60-4ESI	A60-2M..	2A 60-M.. 2A60-2M..	L 60-M L 60-P							ME60-50** ④
	400	300 400	A 80-M.. A 80-4ESI	A80-2M..	2A 80-M.. 2A80-2M..	L 80-M							
L..-P..	500	400 500	A 100-M.. A 100-4ESI	A100-2M..	2A 100-M.. 2A100-2M..	L 100-M							
	630	500 630	A 120-M.. A 120-4ESI	A120-2M..	2A 120-M.. 2A120-2M..	L 120-M							
A..-4ESI	800	630	A 160-M.. A 160-4ESI	A160-2M..	2A 160-M.. 2A160-2M..	L 160-M							
	1000	800	A 200-M..		2A 200-M.. 2A200-2M..	L 200-M							
EXTRA FLEXIBLE COPPER CONDUCTORS													
		35	A 9-M..					MA9	PA10	ME9 ①	MA9-50	PA10-50	ME9-50 ①
		50	A 12-M..							ME12 ②	MA12-50	PA 19-50	ME12-50 ②
A..-M..		70	A 17-M..							ME17 ②	MA17-50		ME17-50 ②
		95	A 20-M..							ME20 ②	MA20-50		ME20-50 ②
		120	A 29-M..							ME29 ③			ME29-50 ③
		150	A 35-M..										ME35-50 ③
		185	A 40-M..										ME40-50 ③

⬡ = *Hexagonal crimp (use one size up with fine stranded conductors, E.G.: 95i fine stranded use A19-.. + ME 19 or A 20-.. + ME 20)*

= *Indent crimp*

** Contact Cembre for appropriate die set*

DIE SELECTOR CHART

HYDRAULIC TOOLS													
HT60C RH60C B600C B600CND	HT81-UD RHU81-D ◊			HT 120 and tools and heads with 130 kN crimping force			ECW-H3D			RHU 520		
DIE SET	NEST AND INDENTOR		DIE SET	NEST	INDEN-TOR	DIE SET	NEST	INDENTOR	DIE SET	NEST	INDENTOR	DIE SET
ME1-60C ①	MA1-50	PA1-50	ME1-50 ①									
ME2-60C ①	MA2.3-50	PA5-50	ME2-50 ①	MA2-C	PA10-C	ME2-C ①	Adaptor AU230-130-D with die set MA..-C and indentor PA..-C		Adaptor AU230-130-D with die set ME..-C	Adaptor AU520-130-C with die set MA..-C and indentor PA..-C		Adaptor AU 520-130 C with die set ME..-C
ME3-60C ①			ME3-50 ①	MA3-C		ME3-C ①						
ME5-60C ①	MA5-50		ME5-50 ①	MA5-C		ME5-C ①						
ME7-60C ①	MA7-50	PA10-50	ME7-50 ①	MA7-C		ME7-C ①						
ME10-60C ②	MA10-50		ME10-50 ②	MA10-C		ME10-C ①						
ME14-60C ②	MA14-50	PA19-50	ME14-50 ②	MA14-C	PA24-C	ME14-C ①						
ME17-60C ②			ME17-50 ②			ME17-C ①						
ME19-60C ②	MA19-50		ME19-50 ②	MA19-C		ME19-C ①						
ME24-60C ②	MA24-50	PA24-50	ME24-50 ②	MA24-C		ME24-C ①						
ME30-60C ③			ME30-50 ③	MA30-C	PA48-C	ME30-C ①						
ME37-60C ③			ME37-50 ③	MA37-C		ME37-C ①						
ME48-60C ③			ME48-50 ③	MA48-C		ME48-C ②						
ME60-60C ④				MA60-C	PA60-C	ME60-C ③						
						ME80-C ③	MA80-3D	PA100-3D	ME80-3D ②	MA80-520	PA120-520	ME80-520 ②
							MA100-3D		ME100-3D ②	MA100-520		ME100-520 ②
							MA120-3D	PA120-3D	ME120-3D ②	MA120-520		ME120-520 ②
										MA160-520	PA200-520	ME160-520 ②
										MA200-520		ME200-520 ②
ME9-60C ①	MA9-50	PA10-50	ME9-50 ①	MA9-C	PA10-C	ME9-C ①	Adaptor AU 230-130 D with die set MA..-C and indentor PA..-C		Adaptor AU 230-130 D with die set ME..-C	Adaptor AU520-130-C with die set MA..-C and indentor PA..-C		Adaptor AU 520-130 C with die set ME..-C
ME12-60C ②	MA12-50	PA 19-50	ME12-50 ②	MA12-C	PA24-C	ME12-C ①						
ME17-60C ②	MA17-50		ME17-50 ②	MA17-C		ME17-C ①						
ME20-60C ②	MA20-50		ME20-50 ②	MA20-C		ME20-C ①						
ME29-60C ③			ME29-50 ③	MA29-C	PA48-C	ME29-C ①						
ME35-60C ③			ME35-50 ③	MA35-C		ME35-C ①						
ME40-60C ③			ME40-50 ③	MA40-C		ME40-C ①						

N.B.: Number inside symbol indicates the number of crimps on A-M barrel

*** Only for B500, B500ND and RH50.*

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

CEMBRE

DIE SELECTOR CHART

APPLICATION	CONDUCTOR	CONNECTOR						
COPPER CONDUCTORS								
 ANE..-M..	**Conductor Size Flex sqmm**	**TERMINAL**						
	10	ANE2-M..	ANE2-P12	ANE2-U..	AN2-M..	IN2-M..	EN2-M.. ENR2-M..	
	16	ANE3-M..	ANE3-P14	ANE3-U..	AN3-M..	IN3-M..	EN3-M..	
	25	ANE5-M..	ANE5-P16		AN5-M..			
 ANE..-P..	35	ANE7-M..	ANE7-P20		AN7-M..	IN7-M..	EN7-M..	
	50	ANE10-M..			AN10-M..	IN10-M..	EN10-M.. ENR10-M..	
	70	ANE14-M..			AN14-M..	IN14-M..	EN14-M..	
 ANE..-U..	95	ANE19-M..			AN19-M..	IN19-M..	EN19-M..	
	120	ANE24-M..			AN24-M..	IN24-M..	EN24-M..	
	150	ANE30-M..			AN30-M..	IN30-M..	EN30-M..	
AN..-M.. IN..-M.. EN..-M.. 	150					IN37-M.. INR37-M..		
	185					IN48-M..	EN48-M..	
	240					IN60-M..	EN60-M..	
	300					IN80-M..	EN80-M..	
EXTRA FLEXIBLE COPPER CONDUCTORS								
 ANE..-M..	35	ANE9-M..						
	50	ANE12-M..						
	70	ANE17-M..						
	95	ANE20-M..						
	120	ANE29-M..						
	150	ANE35-M..						
COPPER CONDUCTORS								
 PK ...	**Conductor Size Flex sqmm**	**TERMINAL**						
	0,3 ÷ 4	PKD506÷PKD418	PKE508÷PKE418	PKC508÷PKC418	KE506÷KE412			
	4 ÷ 16	PKD410÷PKD1618	PKE410÷PKE1618	PKC410÷PKC1618	KE410÷KE1616			
	16	PKD16..	PKE16..	PKC16..	KE16..			
	25	PKD25..	PKE25..	PKC25..	KE25..			
KE ... 	35	PKD35..		PKC35..	KE35..			
	50	PKD50..		PKC50..				
	70			PKC70..				
	95			PKC95..				
	120			PKC120..				
	Conductor Size Flex sqmm	**TERMINAL**						
	2 x 0,5	PKT508 PKT510						
	2 x 0,75	PKT7508 PKT7510						
	2 x 1	PKT108 PKT110						
PKT ... 	2 x 1,5	PKT1508 PKT1512						
	2 x 2,5	PKT2510 PKT2512						
	2 x 4	PKT412						
	2 x 6	PKT614						
	2 x 10	PKT1014						
	2 x 16	PKT1614						

= *Indent crimp* = *Radial crimp* = *Trapezium crimp*

DIE SELECTOR CHART

	HYDRAULIC TOOLS								
	B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT60C RH60C B600C B600CND	HT 120 and tools and heads with 130 kN crimping force			ECW-H3D	
	DIE SET		DIE SET		NEST	INDENTOR	DIE SET	NEST	INDENTOR
	NN4-15		MN2RF-50		MN2-C	PN7-C	MN2RF-C	Adaptor AU230-130-D with die set MN..-C and indentor PN..-C or with die set MN..-RF-C and die set MN..F-C	
			MN3RF-50		MN3-C		MN3RF-C		
			MN5RF-50		MN5-C		MN5RF-C		
			MN7RF-50		MN7-C		MN7RF-C		
			MN10RF-50		MN10-C	PN14-C	MN10RF-C		
			MN14RF-50		MN14-C		MN14RF-C		
			MN19RF-50		MN19-C	PN24-C	MN19RF-C		
			MN24RF-50		MN24-C		MN24RF-C		
					MN30-C	PN37-C	MN30RF-C		
					MN37-C		MN37RF-C		
					MN48-C	PN48-C	MN48RF-C		
					MN60-C	PN60-C			
								MN80-3D	PN80-3D
			MN7RF-50		MN9-C	PN14-C	MN7RF-C	Adaptor AU230-130-D with die set MN..-C and indentor PN..-C or with die set MN..-RF-C and die set MN..F-C	
			MN12F-50		MN12-C		MN12F-C		
			MN17F-50		MN17-C	PN24-C	MN17F-C		
			MN20F-50		MN20-C		MN20F-C		
					MN29-C	PN37-C	MN29F-C		
					MN35-C		MN35F-C		

	DIE SET			DIE SET				
	KE4-15				MTT6-60C			
	KE16-15				MTT10-60C			
	KE35-15		MTT16-50		MTT16-60C			
			MTT25-50		MTT25-60C			
			MTT35-50		MTT35-60C			
			MTT50-50		MTT50-60C			
			MTT70-50		MTT70-60C			
			MTT95-50		MTT95-60C			
			MTT120-50		MTT120-60C			

	DIE SET	COMP. APERTURE		DIE SET				
	KE4-15	1						
		1,5						
		2,5						
		2,5						
	KE4-15 KE16-15	4						
	KE16-15	6						
		10						
	KE16-15 KE35-15	16		MTT16-50				
	KE35-15	35		MTT35-50				

CEMBRE

APPLICATION	CONDUCTOR		CONNECTOR			HYDRAULIC TOOLS						
						HT45-E B450ND-BV	HT51 RH50 B500E B500ND	HT60C RH60C B600C B600CND	HT81-UD RHU81-D ◊	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
TAP-OFF ON COPPER CONDUCTOR		Conductor Size sqmm	CONNECTOR	CONNECTOR		DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
		Run / Tap										
C..-C..ST		6 ÷ 2,5 / 6 ÷ 1,5	C6-C6ST	C6-C6		MC6 (1)	MC6-50 (1)		MC6-50 (1)			
		10 / 10 ÷ 1,5	C10-C10ST	C10-C10		MC10 (1)	MC10-50 (1)		MC10-50 (1)	MC10-C (1)	Adaptor AU230-130-D with die set MC..-C	Adaptor AU520-130-C with die set MC..-C
		16 / 16 ÷ 1,5	C16-C16ST	C16-C16		MC25 (2)	MC25-50 (2)		MC25-50 (2)	MC25-C (1)		
		25 ÷ 16 / 10 ÷ 1,5	C25-C10ST	C25-C10								
		25 / 25 ÷ 16	C25-C25ST	C25-C25								
		40 ÷ 35 / 16 ÷ 1,5	C35-C16ST	C35-C16		MC35 (2)	MC35-50 (2)		MC35-50 (2)	MC35-C (1)		
		40 ÷ 35 / 40 ÷ 25	C35-C35ST	C35-C35								
		50 / 25 ÷ 10										
		70 ÷ 63 / 25 ÷ 1,5	C70-C25NST	C70-C25N								
C..-C..		50 / 25 ÷ 4	C50-C25ST	C50-C25			*MC70-50 (3)		*MC70-50 (3)	MC70-C (3)	MC70-3D (1)	
		*50 / 50 ÷ 35	C50-C50ST	C50-C50								
		*70 ÷ 50 / 40 ÷ 4	C70-C35ST	C70-C35								
		*70 ÷ 50 / 70 ÷ 35	C70-C70ST	C70-C70								
		100 ÷ 95 / 40 ÷ 4	C95-C35ST	C95-C35						MC95-C (3)	MC95-3D (1)	
		100 ÷ 95 / 70 ÷ 40	C95-C70ST	C95-C70								
		100 ÷ 95 / 100 ÷ 63	C95-C95ST	C95-C95								
		125 ÷ 110 / 125 ÷ 25	C120-C120ST	C120-C120						MC185-C (3)	MC185-3D (1)	
		160 ÷ 150 / 125 ÷ 25	C150-C120ST	C150-C120								
		125 / 125										
		150 / 150 ÷ 63	C150-C150ST	C150-C150								
		125 / 125										
		185 / 100 ÷ 16	C185-C95ST	C185-C95								
		185 ÷ 120 / 185 ÷ 120	C185-C185ST	C185-C185							MC240-3D (1)	
		240 ÷ 150 / 120 ÷ 95	C240-C120ST	C240-C120								
COPPER CONDUCTORS		Conductor Size sqmm	CONNECTOR	CONNECTOR						DIE SET	DIE SET	DIE SET
		Run / Tap										
H..-H..		70 / 70	H70-H70	H70-H70ST						MRH26-C (1)	Adaptor AU230-130-D with die set MRH..-C	Adaptor AU520-130-C with die set MRH..-C
		95 / 95	H95-H95	H95-H95ST						MRH30-C (1)		
		120 / 120	H120-H120	H120-H120ST						MRH32-C (1)		
DK..-M..		Cond. Size sqmm	CONNECTOR	CONNECTOR						DIE SET	DIE SET	DIE SET
		2 x 50	DK50-M12							MRD22-C (2)	Adaptor AU230-130-D with die set MRD..-C	Adaptor AU520-130-C with die set MRD..-C
		2 x 70	DK70-M12	DK70-2M12-51AS						MRD24-C (2)		
		2 x 95	DK95 -M12	DK95-2M12-51AS						MRD29-C (2)		
		2 x 120	DK120-M12	DK120-2M12-51AS						MRD32-C (2)		
DR..-2M12-51AS		Cond. Size sqmm	CONNECTOR	CONNECTOR		DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
		70	DR70-2M12-51AS			MK16 (3)	MK16-50 (3)	MK16-60C (3)	MK16-50 (3)	MK16-C (1)	MK16-3D (2)	Adaptor AU520-130-C with die set MK..-C
		95	DR95-2M12-51AS			MK18 (4)	MK18-50 (4)	MK18-60C (4)	MK18-50 (4)	MK18-C (2)	MK18-3D (2)	
		120	DR120-2M12-51AS			MK20 (4)	MK20-50 (4)	MK20-60C (4)	MK20-50 (4)	MK20-C (2)	MK20-3D (2)	

⬡ = Hexagonal crimp ⬭ = oval crimp ◯ = circular crimp *When using die set type MC70-50, the conductors marked with a star must be annealed. ◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

H.V. COPPER CONDUCTORS

APPLICATION	CONDUCTOR		CONNECTOR			HYDRAULIC TOOLS					
						HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT81-UD RHU81-D ◊	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU520
	Cond. Size sqmm	TERMINAL		TERMINAL			DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
MT..-TD MT..-GC	25 R	MT25-TD	MT25-GC	CA25-M..	CA25-2M..	MT25-C..		MMT25-50 ◯	MMT25-U ◯	MMT25-C ◯	Adaptor **AU230-130-D** with die set **MMT..-C**	Adaptor **AU520-130-C** with die set **MMT..-C**
	35 RC/S ÷ 40 S	MT40S-TD	MT40S-GC	CA40S-M..	CA40S-2M..	MT40S-C..		MMT50-50 ◯	MMT50-U ◯	MMT50-C ◯		
	50 RC	MT50R-TD	MT50R-GC	CA50R-M..	CA50R-2M..	MT50R-C..						
	50 S	MT50S-TD	MT50S-GC	CA50S-M..	CA50S-2M..	MT50S-C..						
	63 S ÷ 70 S	MT70S-TD	MT70S-GC	CA70S-M..	CA70S-2M..	MT70S-C..		MMT95-50 ◯	MMT95-U ◯	MMT95-C ◯		
	80 S ÷ 95 RC	MT95R-TD	MT95R-GC	CA95R-M..	CA95R-2M..	MT95R-C..						
	95 S ÷ 100 S	MT95S-TD	MT95S-GC	CA95S-M..	CA95S-2M..	MT95S-C..						
CA..-M.. CA..-2M..	120 RC/S ÷ 150 RC	MT150R-TD	MT150R-GC	CA150R-M..	CA150R-2M..	MT150R-C..		MMT200-50 ◯	MMT200-U ◯	MMT200-C ◯		
	150 S ÷ 160 RC	MT150S-TD	MT150S-GC	CA150S-M..	CA150S-2M..	MT150S-C..						
	160 S ÷ 200 RC	MT200R-TD	MT200R-GC	CA200R-M..	CA200R-2M..	MT200R-C..						
	185 BR/BS	MT185-TD	MT185-GC	CA185-M..	CA185-2M..	MT185-C..						
	200 S ÷ 240 RC	MT240R-TD	MT240R-GC	CA240R-M..	CA240R-2M..	MT240R-C..				MMT315-C ◯		
	240 S ÷ 315 RC	MT315R-TD	MT315R-GC	CA315R-M..	CA315R-2M..	MT315R-C..						
MT..-C..	315 S	MT315S-TD	MT315S-GC	CA315S-M..	CA315S-2M..	MT315S-C..						
	400 R	MT400-TD		2A80-M..	2A80-2M..					ME80-C ⬡	ME80-3D ⬡	ME80-520 ⬡
	500 R	MT500-TD		2A100-M..	2A100-2M..						ME100-3D ⬡	ME100-520 ⬡
	600 R ÷ 630 R	MT630-TD		2A120-M..	2A120-2M..						ME120-3D ⬡	ME120-520 ⬡

ALUMINIUM CONDUCTORS

APPLICATION	CONDUCTOR	CONNECTOR		HYDRAULIC TOOLS			
				HT 131-UC RHU 131-C B1350-UCE B1300-UCE			
CAA..-M..	Conductor Size sqmm	LUGS		DIE HOLDER	DIE		INDENTOR
	10	CAA10-M..		AU130-150	MV35 ⋁	MUA35 ⋁	PS130-35/E
	16	CAA16-M..	MTA16-C				
	25	CAA25-M..	MTA25-C				
	35	CAA35-M..	MTA35-C				
	50	CAA50-M..	MTA50-C		MV95 ⋁	MUA95 ⋁	PS130-95/E
	70	CAA70-M..	MTA70-C..				
	95	CAA95-M..	MTA95-C..				
MTA..-C	120	CAA120-M..	MTA120-C..		MV150 ⋁	MUA150 ⋁	PS130-150/E
	150	CAA150-M..	MTA150-C..				
	185	CAA185-M..	MTA185-C..	AU130-240	MV240 ⋁	MUA240 ⋁	PS130-240/E
	240	CAA240-M..	MTA240-C..				
	300	CAA300-34M..			MUA300-34 ⋁		
	Conductor Size sqmm	LUGS		DIE HOLDER	DIE		INDENTOR
	16	AA16-M..		AU130-150	MUA35 ⋁		PS130-35/E
	25	AA25-M..					
	35	AA35-M..					
	50	AA50-M..			MUA95 ⋁		PS130-95/E
	70	AA70-M..					
	95	AA95-M..					
AA..-M..	120	AA120-M..			MUA150 ⋁		PS130-150/E
	150	AA150-M..					
	185	AA185-M..		AU130-240	MUA240 ⋁		PS130-240/E
	240	AA240-M..					
	300	AA300-34M..			MUA300-34 ⋁		

⋁ = Deep indent crimp ⬡ = Hexagonal crimp ◯ = circular crimp

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

ALUMINIUM CONDUCTORS



MTMA..-..GC

Conductor Size sqmm	SPLICE		Conductor Size sqmm Al	Conductor Size sqmm Al/Cu	SPLICES	HYDRAULIC TOOLS HT 131-UC RHU 131-C B1350-UC B1300-UC		
						DIE HOLDER	DIE	INDENTOR
10	MTMA10-GC					AU130-150	MVM35 (V) MUA35 (V)	PS130-35/E
16	MTMA16-GC	MTMA16/1	16	10	MTMA16-10GC			
25	MTMA25-GC	MTMA25/1	25	10	MTMA25-10GC			
			25	16	MTMA25-16GC			
35	MTMA35-GC	MTMA35/1						
50	MTMA50-GC	MTMA50/1	50	25	MTMA50-25GC		MVM95 (V) MUA95 (V)	PS 130-95/E
			50	35	MTMA50-35GC			
70	MTMA70-GC	MTMA70/1	70	35	MTMA70-35GC			
			70	50	MTMA70-50GC			
95	MTMA95-GC	MTMA95/1	95	50	MTMA95-50GC			
			95	70	MTMA95-70GC			
120	MTMA120-GC	MTMA120/1	120	70	MTMA120-70GC		MVM150 (V) MUA150 (V)	PS130-150/E
			120	95	MTMA120-95GC			
150	MTMA150-GC	MTMA150/1	150	70	MTMA150-70GC			
			150	95	MTMA150-95GC			
			150	120	MTMA150-120GC			
185	MTMA185-GC	MTMA185/1	185	120	MTMA185-120GC	AU130-240	MVM240 (V) MUA240 (V)	PS130-240/E
			185	150	MTMA185-150GC			
240	MTMA240-GC	MTMA240/1	240	150	MTMA240-150GC			
			240	185	MTMA240-185GC			
300	MTMAD300-GC	MTMAD300/1	300	185	MTMAD 300-185 GC		MUA 300-34 (V)	
			300	240	MTMAD 300-240 GC			

(V) = *Deep indent crimp*

PRE-ROUNDERS SELECTION

ALUMINIUM CONDUCTOR SIZE sqmm	PRE-ROUNDER	DIE-SUPPORT
25	UP 130-25	AC 130-P
35	UP 130-35	
50	UP 130-50	
70	UP 130-70	
95	UP 130-95	
120	UP 130-120	
150	UP 130-150	
185	UP 130-185	
240	UP 130-240	

DIES DESCRIPTION

1) AU 130-.. DIE-HOLDER
Used to house dies and pre-rounders.

2) UP 130-.. PRE-ROUNDERS
Used to round aluminium sectoral conductors in order to introduce them into circular connectors. Each pre-rounder is made of two parts: the upper part is housed in die-holder AU 130-.. and the lower part is locked onto AC 130-P.. die support.

3) AC 130-P.. DIE SUPPORT
Houses lower part of pre-rounder UP 130-..

4) MUA... DIES
Containing dies.

5) PS 130-../E INDENTORS
Such indentors are specifically engineered for deep indentation of aluminium conductors of any stranding configuration.

DIES SEQUENCE

CONDUCTOR ROUNDING



CRIMPING



ALUMINIUM CONDUCTORS

APPLICATION	CONDUCTOR	CONNECTOR				HYDRAULIC TOOLS							
						HT 120 and tools and heads with 130 kN crimping force	HT131-UC RHU131-C B1350-UC B1300-UC			ECW-H3D	RHU230-630		
	Conductor Size sqmm	LUGS				HEXAGONAL CRIMP	INDENT CRIMP			HEXAGONAL CRIMP	INDENT CRIMP		
						DIE SET	DIE HOLDER	DIE	INDENTOR	DIE SET	ADAPTOR	DIE	INDENTOR
 CAA..-M..	300	CAA300-34-M..				MK34L-C ⬡	AU130-240	MUA300-34 ⋓	PS130-240/E	MK34-3D ⬡			
	300	CAA300-M16								MK38-3D ⬡	AU230-630	MV230-400-MC5E ⋓	PS230-400-5E
	400	CAA400-M16											
	500	CAA500-M16TNBD											
	630	CAA630-4M8								MK46-3D ⬡		MV230-630-MC6E ⋓	PS230-630-6E
	Conductor Size sqmm	LUGS				DIE SET	DIE HOLDER	DIE	INDENTOR	DIE SET	ADAPTOR	DIE	INDENTOR
 AA..-M..	300	AA300-34-M..				MK34L-C ⬡	AU130-240	MUA300-34 ⋓	PS130-240/E	MK34-3D ⬡			
	300	AA300-M16								MK38-3D ⬡	AU230-630	MUA230-630-400 ⋓	PS230-400-5E
	400	AA400-M16											
	500	AA500-40-M16											
	630	AA630-M16								MK46-3D ⬡		MUA230-630-630 ⋓	PS230-630-6E
	Conductor Size sqmm	SPLICES	Conductor Size sqmm Al	Conductor Size sqmm Al/Cu	SPLICE	DIE SET	DIE HOLDER	DIE	INDENTOR	DIE SET	ADAPTOR	DIE	INDENTOR
	300	MTMAD300/1	300	95	MTMAD300-95-GC	MK34L-C ⬡	AU130-240	MUA300-34 ⋓	PS130-240/E	MK34-3D ⬡			
				150	MTMAD300-150-GC								
		MTMAD300-GC		185	MTMAD300-185-GC								
				240	MTMAD300-240-GC								
 MTMA..	300	MTMA300-GC								MK38-3D ⬡	AU230-630	MVM230-400-MJ5E ⋓	PS230-400-5E
	400	MTMA400/1	400	240	MTMA400-240-GC								
				300	MTMA400-300-GC								
	500	MTMA500-40/1											
	500	MTMA500-GC	500	300	MTMA500-300-GC					MK46-3D ⬡		MVM230-630-MJ6E ⋓	PS230-630-6E
				400	MTMA500-400-GC								
	630	MTMA630/1											

ALUMINIUM CONDUCTORS

	CONDUCTOR	CONNECTOR	HYDRAULIC TOOLS
 AAC150-M10  AA150S-2M12/29ST			HT51 RH50 B500 B500ND
	Conductor Size sqmm	LUGS	DIE SET
	150	AAC150-M10	MAA150-50 ⬡
		AA150S-2M12/29ST	

⋓ = *Deep indent crimp* ⬡ = *Hexagonal crimp*

CEMBRE

DIE SELECTOR CHART

	APPLICATION	CONDUCTOR	ALUMINUM CONNECTORS AND BIMETALLIC (Al - Cu)				HYDRAULIC TOOLS	
							HT45-E B450ND-BV	
CAVI IN ALLUMINIO		Sez. Cavo mm²	LUGS	LUGS	LUGS	SPLICE	HEXAGONAL DIE SET	
		10	CAA10-M..			MTMA10-..	MK16B ⬡	
		16	CAA16-M..	MTA16-C	AA16-M..	MTMA16-..		
	CAA..-M..	25	CAA25-M..	MTA25-C	AA25-M..	MTMA25-..		
		35	CAA35-M..	MTA35-C	AA35-M..	MTMA35-..		
		35	CAA35-20-M..	MTA35-20-C14-60		MTMA35-20-..	MK20B ⬡	
	MTA..-C	50	CAA50-M..	MTA50-C	AA50-M..	MTMA50-..		
		70	CAA70-M..	MTA70-C..	AA70-M..	MTMA70-..		
		95	CAA95-M..	MTA95-C..	AA95-M..	MTMA95-..		
		120	CAA120-M..	MTA120-C..	AA120-M..	MTMA120-..		
	AA..-M..	150	CAA150-M..	MTA150-C..	AA150-M..	MTMA150-..		
		185	CAA185-M..	MTA185-C..	AA185-M..	MTMA185-..		
		240	CAA240-M..	MTA240-C..	AA240-M..	MTMA240-..		
		300	CAA300-34-M..		AA300-34M..	MTMAD300..		
	MTMA..	300	CAA300-M..		AA300-M..	MTMA300-..		
		400	CAA400-M..		AA400-M16	MTMA400-..		
		500	CAA500-M16TNBD		AA500-40M16	MTMA500-40/1		
		500				MTMA500-GC		
		630	CAA630-4M8		AA630-M16	MTMA630-GC		

⬡ = *Hexagonal crimp*

DIE SELECTOR CHART

	HYDRAULIC TOOLS					
	HT51 RH50 B500 B500ND	HT81-UD RHU81-D ◊	HT120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET	HEXAGONAL DIE SET
	MK16B-50 ⬡	MK16B-50 ⬡	MK16-C ⬡	Adaptor **AU230-130D** with die set **MK...-C**	Adaptor **AU450-130D** with die set **MK...-C**	Adaptor **AU520-130D** with die set **MK...-C**
	MK20B-50 ⬡	MK20B-50 ⬡	MK20-C ⬡			
	MK25B-50 ⬡	MK25-50 ⬡	MK25-C ⬡			
	MK32B-50 ⬡	MK32B-50 ⬡	MK32L-C ⬡			
			MK34L-C ⬡	MK34-3D ⬡	MK34-450 ⬡	MK34-520 ⬡
				MK38-3D ⬡	MK38-450 ⬡	MK38-520 ⬡
				MK46-3D ⬡	MK46-450 ⬡	MK46-520 ⬡

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

APPLICATION	CONDUCTOR	CONNECTOR			HYDRAULIC TOOLS								
					B15MD	HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT60C RH60C B600C B600CND	HT81-UD RHU81-D ◊	HT 120 and tools and heads with 130 kN crimping force		ECW-H3D		RHU520
		LUGS		SPLICES	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	NEST	INDENTOR	NEST	INDENTOR	
DIN 46234	6÷10	Q10-..					MQ10-50	MQ10-60C	MQ10-50	MQM10-C	MQS16-C	Adaptor **AU230-130-D** with die set **MQ...**		Adaptor **AU520-130-C** with die set **MQ...**
	10÷16	Q16-..					MQ16-50	MQ16-60C	MQ16-50	MQM16-C				
	16÷25	Q25-..					MQ25-50	MQ25-60C	MQ25-50	MQM25-C	MQS-35-C			
	25÷35	Q35-..					MQ35-50	MQ35-60C	MQ35-50	MQM35-C				
	35÷50	Q50-..					MQ50-50	MQ50-60C	MQ50-50	MQM50-C	MQS70-C			
	50÷70	Q70-..					MQ70-50	MQ70-60C	MQ70-50	MQM70-C				
	70÷95	Q95-..						MQ95-60C		MQM95-C	MQS150-C			
	95÷120	Q120-..						MQ120-60C		MQM120-C				
	120÷150	Q150-..								MQM150-C				
	150÷185	Q185-..								MQM185-C	MQS240-C			
	185÷240	Q240-..								MQM240-C				
DIN 46235 - 46267 T.1	6	DR6-..N		DSV6	MK5/8-15 (1)	MK5 (1)	MK5-50 (1)	MK5-60C (2)	MK5-50 (1)	MK5-C (1)		Adaptor **AU230-130-D** with die set **MK..-C**		Adaptor **AU520-130-C** with die set **MK..-C**
	10	DR10-..N		DSV10		MK6 (1)	MK6-50 (2)	MK6-60C (2)	MK6-50 (2)	MK6-C (1)				
	16	DR16-..N		DSV16		MK8 (2)	MK8-50 (2)	MK8-60C (2)	MK8-50 (2)	MK8-C (1)				
	25	DR25-..N		DSV25		MK10 (2)	MK10-50 (2)	MK10-60C (2)	MK10-50 (2)	MK10-C (1)				
	35	DR35-..N		DSV35		MK12 (2)	MK12-50 (2)	MK12-60C (2)	MK12-50 (2)	MK12-C (1)				
	50	DR50-..N		DSV50		MK14 (3)	MK14-50 (3)	MK14-60C (3)	MK14-50 (3)	MK14-C (1)		MK14-3D (2)		
	70	DR70-..N		DSV70		MK16 (3)	MK16-50 (3)	MK16-60C (3)	MK16-50 (3)	MK16-C (1)		MK16-3D (2)		
	95	DR95-..N		DSV95		MK18 (4)	MK18-50 (4)	MK18-60C (4)	MK18-50 (4)	MK18-C (2)		MK18-3D (2)		
	120	DR120-..N		DSV120		MK20 (4)	MK20-50 (4)	MK20-60C (4)	MK20-50 (4)	MK20-C (2)		MK20-3D (2)		
	150	DR150-..N		DSV150		MK22L (4)	MK22-50 (4)	MK22-60C (4)	MK22-50 (4)	MK22-C (2)		MK22-3D (2)		
	185	DR185-..N		DSV185			MK25-50 (4)	MK25-60C (4)	MK25-50 (4)	MK25-C (2)		MK25-3D (2)		
	240	DR240-..N		DSV240			MK28-50 (5)	MK28-60C (5)	MK28-50 (5)	MK28-C (2)		MK28-3D (2)		
	300	DR300-..N		DSV300			MK32-50* (5)	MK32-60C (5)		MK32-C (5)		MK32-3D (2)		
	400	DR400-..N		DSV400								MK38-3D (3)		MK38-520 (3)
	500	DR500-..N		DSV500								MK42-3D (3)		MK42-520 (3)
	625	DR625-..N		DSV625								MK44-3D (3)		MK44-520 (3)
	800	DR800-..N		DSV800										MK52-520 (3)
	1000	DR1000-..N		DSV1000										MK58-520 (3)
COPPER CONDUCTORS	6	HR6-..N	HRS6-..N	HSV6			MH6-50 (1)	MH6-60C (1)	MH6-50 (1)					
	10	HR10-..N	HRS10-..N	HSV10	MH10/16/15 (1)	MH10 (1)	MH10-50 (1)	MH10-60C (1)	MH10-50 (1)	MH10-C (1)		Adaptor **AU230-130-D** with die set **MH..-C**		Adaptor **AU520-130-C** with die set **MH..-C**
	16	HR16-..N	HRS16-..N	HSV16		MH16 (1)	MH16-50 (1)	MH16-60C (1)	MH16-50 (1)	MH16-C (1)				
	25	HR25-..N	HRS25-..N	HSV25		MH25 (1)	MH25-50 (2)	MH25-60C (2)	MH25-50 (2)	MH25-C (1)				
	35	HR35-..N	HRS35-..N	HSV35		MH35 (1)	MH35-50 (2)	MH35-60C (2)	MH35-50 (2)	MH35-C (1)				
	50	HR50-..N	HRS50-..N	HSV50		MH50 (2)	MH50-50 (2)	MH50-60C (2)	MH50-50 (2)	MH50-C (1)		MH50-3D (1)		
	70	HR70-..N	HRS70-..N	HSV70		MH70 (2)	MH70-50 (2)	MH70-60C (2)	MH70-50 (2)	MH70-C (1)		MH70-3D (1)		
	95	HR95-..N	HRS95-..N	HSV95		MH95 (3)	MH95-50 (2)	MH95-60C (2)	MH95-50 (2)	MH95-C (1)		MH95-3D (1)		
	120	HR120-..N	HRS120-..N	HSV120		MH120 (3)	MH120-50 (2)	MH120-60C (2)	MH120-50 (2)	MH120-C (1)		MH120-3D (1)		
	150	HR150-..N	HRS150-..N	HSV150		MH150 (4)	MH150-50 (2)	MH150-60C (2)	MH150-50 (2)	MH150-C (1)		MH150-3D (1)		
	185	HR185-..N	HRS185-..N	HSV185			MH185-50 (2)	MH185-60C (2)	MH185-50 (2)	MH185-C (1)		MH185-3D (2)		
	240	HR240-..N	HRS240-..N	HSV240			MH240-50 (4)	MH240-60C (4)	MH240-50 (4)	MH240-C (2)		MH240-3D (2)		
	300	HR300-..N	HRS300-..N	HSV300			MH300-50* (4)	MH300-60C (4)		MH300-C (2)		MH300-3D (2)		
	400									MH400-C (3)		MH400-3D (2)		
	500											MH500-3D (2)		
	630											MH630-3D (2)		











(1) = Indent crimp (2) = Hexagonal crimp

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

NB: for through connectors this is the number of crimps per conductor * Only for B500, B500ND and RH50

COPPER CONDUCTORS

APPLICATION	CONDUCTOR			CONNECTOR			HYDRAULIC TOOLS							
							B15MD	HT51 RH50 B500 B500ND		HT 120 and tools and heads with 130 kN crimping force		ECW-H3D	RHU520	
	Conductor Size sqmm	Conductor Size AWG	Conductor Size Navy	LUGS		SPLICE	DIE SET		DIE SET		DIE SET	DIE SET	DIE SET	
C..-.. 	10	8	23	C8-..	CL8-..	BSCL8	ME03/2-15 (1) ME2/3-15 (1) MA03/3-15		MY2-50 (1)		MY2-C (1)	Adaptor **AU230-130-D** with die set **MY..-C**	Adaptor **AU520-130-C** with die set **MY..-C**	
	16	6		C6-..	CL6-..	BSCL6	ME2/3-15 (1) MA03/3-15		MY3-50 (1)		MY3-C (1)			
CL..-.. 	25	4	40	C4-..	CL4-..	BSCL4			MY4-50 (1)		MY4-C (1)			
		3	50	C3-..	CL3-..	BSCL3			MY5-50 (1)		MY5-C (1)			
	35	2	60	C2-..	CL2-..	BSCL2			MY6-50 (1)		MY6-C (1)			
		1	75	C1-..	CL1-..	BSCL1			MY7-50 (1)		MY7-C (1)			
	50	1/0	100	C1/0..	CL1/0..	BSCL1/0			MY10-50 (2)		MY10-C (1)			
CL..-.. 	70	2/0	125	C2/0..	CL2/0..	BSCL2/0			MY14-50 (2)		MY14-C (1)			
	95	3/0	150	C3/0..	CL3/0..	BSCL3/0			MY16-50 (2)		MY16-C (1)			
		4/0	200	C4/0..	CL4/0..	BSCL4/0			MY19-50 (2)		MY19-C (1)			
	120	250 MCM	250	C250-..	CL250-..	BSCL250			MY24-50 (2)		MY24-C (1)			
	150	300 MCM	300	C300-..	CL300-..	BSCL300			MY30-50 (2)		MY30-C (1)			
	185	350 MCM	350	C350-..	CL350-..	BSCL350			MY36-50 (2)		MY36-C (1)			
BSCL.. 		400 MCM	400	C400-..	CL400-..	BSCL400			MY37-50 (2)		MY37-C (1)			
	240	500 MCM		C500-..	CL500-..	BSCL500			MY48-50 (3)		MY48-C (2)			
	300	600 MCM		C600-..	CL600-..	BSCL600					MY60-C (2)			
		750 MCM		C750-..	CL750-..	BSCL750					MY76-C (2)			

○ = Circular crimp ⌓ = Indent crimp ⬡ = Hexagonal crimp

N.B.: Number inside symbol indicates the number of crimps for C short barrel lugs only.

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COPPER CONDUCTORS

APPLICATION	CONDUCTOR	CONNECTOR		HYDRAULIC TOOLS						HYDRAULIC TOOLS											
				B15MD	HT45-E B450ND-BV			HT51 RH50 B500 B500ND			HT60C RH60C B600C B600CND TN60C	HT81-UD RHU81-D ◊		HT 120 and tools and heads with 130 kN crimping force			ECW-H3D			RHU520		
	Conductor Size sqmm	TERMINAL	SPLICE	DIE SET	NEST	INDENTOR	DIE SET	NEST	INDENTOR	DIE SET	DIE SET	NEST	DIE SET	NEST	INDENTOR	DIE SET	NEST	INDENTOR	DIE SET	NEST	INDENTOR	DIE SET
T..-M.. 	4 ÷ 6	T6-M.. T6-L..	L6-T..	MS4/10-15 (1)	MA1	PA1	MS6 (1)	MA1-50	PA1-50	MS6-50 (1)	MS6-60C (1)		MS6-10-U (1)			MS6-C (1)						
	10	T10-M.. T10-L..	L10-T..	MS4/10-15 MS10/16-15 (1)	MA2.3	PA5	MS10 (1)	MA2.3-50	PA5-50	MS10-50 (1)	MS10-60C (1)	MA3.5-U	MS6-10-U (1)	MA2-C	PA10-C	MS10-C (1)	Adaptor AU230-130-D with die set MA..-C and indentor PA..-C	Adaptor AU230-130-D with die set MS..-C	Adaptor AU520-130-C with die set MA..-C and indentor PA..-C	Adaptor AU520-130-C with die set MS..-C		
	16	T16-M.. T16-L..	L16-T..	MS10/16-15 (1)			MS16 (1)			MS16-50 (1)	MS16-60C (1)		MS16-25-U (1)	MA3-C		MS16-C (1)						
	25	T25-M.. T25-L..	L25-T..		MA5		MS25 (1)	MA5-50		MS25-50 (1)	MS25-60C (1)		MS16-25-U (1)	MA5-C		MS25-C (1)						
L..-T 	35	T35-M.. T35-L..	L35-T..		MA7	PA10	MS35 (2)	MA7-50	PA10-50	MS35-50 (2)	MS35-60C (2)	MA7.14-U	MS35-50-U (2)	MA7-C		MS35-C (1)						
	50	T50-M.. T50-L..	L50-T..		MA10		MS50 (2)	MA10-50		MS50-50 (2)	MS50-60C (2)	MA10.19-U	MS35-50-U (2)	MA10-C		MS50-C (1)						
	70	T70-M.. T70-L..	L70-T..				MS70 (2)	MA14-50	PA19-50	MS70-50 (2)	MS70-60C (2)	MA9.17-U	MS70-150-U (2)	MA14-C	PA24-C	MS70-C (1)						
	95	T95-M.. T95-L..	L95-T..				MS95 (2)	MA19-50		MS95-50 (2)	MS95-60C (2)	MA10.19-U	MS95-120-U (2)	MA19-C		MS95-C (1)						
T..-L.. 	120	T120-M.. T120-L..	L120-T..				MS120 (2)	MA24-50	PA24-50	MS120-50 (2)	MS120-60C (2)	MA24-U	MS95-120-U (2)	MA24-C		MS120-C (1)						
	150	T150-M.. T150-L..	L150-T..				MS150 (3)			MS150-50 (3)	MS150-60C (3)	MA30.80-U	MS70-150-U (3)	MA30-C		MS150-C (2)						
	185	T185-M..	L185-T..							MS185-50 (3)	MS185-60C (3)	MA35-U	MS185-U (3)	MA37-C	PA48-C	MS185-C (2)						
	240	T240-M..	L240-T..							MS240-50 (4)	MS240-60C (4)	MA48-U	MS240-U (4)	MA48-C		MS240-C (2)						
	300	T300-M..	L300-T..							MS300-50* (5)	MS300-60C (5)			MA60-C	PA60-C	MS300-C (3)						
	400	T400-M..	L400-T..													MS400-C (3)						

= Indent crimp = Hexagonal crimp

* Only for B500, B500ND and RH50

◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

DIN EN 50182

APPLICATION	Conductor Size sqmm		MATERIAL (Al)		HYDRAULIC TOOLS							
					HT45-E B450ND-BV	HT51 RH50 B500 B500ND	HT60C RH60C B600C B600CND	HT81-UD RHU81-D ◊	HT 120 and tools and heads with 130 kN crimping force	ECW-H3D	RHU450	RHU520
	rm/sm	re/se	LUGS	SPLICES	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET	DIE SET
	10	16					MK10B-60C ⬡2					
	16	25	AAD16-M..		MK12B ⬡4	MK12B-50 ⬡4	MK12B-60C ⬡4	MK12B-50 ⬡4	MK12-C ⬡2	Adaptor AU230-130-D with die set MK...-C	Adaptor AU450-130D with die set MK...-C	Adaptor AU520-130-C with die set MK...-C
	16	25		DSVA16	MK12B ⬡3	MK12B-50 ⬡3	MK12B-60C ⬡3	MK12B-50 ⬡3	MK12-C ⬡1			
 AAD..	25	35	AAD25-M..	DSVA25	MK12B ⬡4	MK12B-50 ⬡4	MK12B-60C ⬡4	MK12B-50 ⬡4	MK12-C ⬡2			
	35	50	AAD35-M..	DSVA35	MK14B ⬡5	MK14B-50 ⬡5	MK14B-60C ⬡5	MK14B-50 ⬡5	MK14-C ⬡2			
	50	70	AAD50-M..	DSVA50	MK16B ⬡5	MK16B-50 ⬡5	MK16B-60C ⬡5	MK16B-50 ⬡5	MK16-C ⬡2			
	70	95	AAD70-M..	DSVA70	MK18B ⬡6	MK18B-50 ⬡6	MK18B-60C ⬡6	MK18B-50 ⬡6	MK18-C ⬡3			
	95	120	AAD95-M..	DSVA95	MK22B ⬡6	MK22B-50 ⬡6	MK22B-60C ⬡6	MK22B-50 ⬡6	MK22-C ⬡3			
	120	150	AAD120-M..	DSVA120	MK22B ⬡6	MK22B-50 ⬡6	MK22B-60C ⬡6	MK22B-50 ⬡6	MK22-C ⬡3			
 DSVA..	150	185	AAD150-M..	DSVA150		MK25B-50 ⬡6	MK25B-60C ⬡6	MK25B-50 ⬡6	MK25-C ⬡3			
	185	240	AAD185-M..	DSVA185		MK28B-50 ⬡6	MK28B-60C ⬡6	MK28B-50 ⬡6	MK28L-C ⬡3			
	240	300	AAD240-M..	DSVA240		MK 32B-50 ⬡8	MK 32B-60C ⬡8		MK32L-C ⬡3			
	300		AAD300-M..	DSVA300			MK34B-60C ⬡8		MK34L-C ⬡3			
	400		AAD400-M..	DSVA400 / DSVA401						MK38-3D ⬡4	MK38-450 ⬡4	MK38-520 ⬡4
	500		AAD500-M..	DSVA500 / DSVA501						MK44-3D ⬡4	MK44-450 ⬡4	MK44-520 ⬡4
	625			DSVA625							MK52-450 ⬡5	MK52-520 ⬡5
	800			DSVA800							MK58-450 ⬡5	MK58-520 ⬡5
	1000			DSVA1000							MK60-450 ⬡5	MK60-520 ⬡5

rm = round stranded
sm = sector stranded
re = round solid
se = sector solid

⬡ = Hexagonal crimp

NB: for through connectors this is the number of crimps per conductor

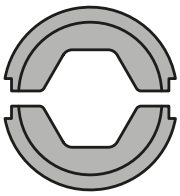
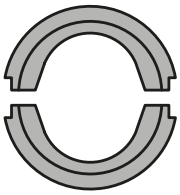
◊ The Type HT81-UD and RHU81-D Tools use the same dies as the HT51, with the aid of a Type 6522051 spring

MUT DIES CROSS REFERENCE CHART

DIE INDEX	DIE TYPE			
				
	14.6 tons tools 131 series	6 tons tools 51 series	6 tons tools 45 series	6 & 6.4 tons tools 54 & 55 series
161	**MUT9999-C**	MUT9999-50	MUT9999	MUT9999-W
162	**MUT9998-C**	MUT9998-50	MUT9998	MUT9998-W
163	**MUT9997-C**	MUT9997-50	MUT9997	MUT9997-W
164	**MUT9996-C**	MUT9996-50	MUT9996	MUT9996-W
166	**MUT9995-C**	MUT9995-50	MUT9995	MUT9995-W
167	**MUT9958-C**	-	-	MUT9958-W
168	**MUT9974-C**	-	-	-
169	**MUT9979-C**	-	-	-
170	**MUT9973-C**	-	-	-
203	**MUT9943-C**	MUT9943-50	-	MUT9943-W
204	**MUT9941-C**	MUT9941-50	-	MUT9941-W
209	**MUT9972-C**	-	-	-
239	**MUT9993-C**	MUT9993-50	MUT9993	MUT9993-W
242	**MUT9967-C**	-	-	-
243	**MUT9991-C**	MUT9991-50	MUT9991	MUT9991-W
247	-	MUT9954-50	-	MUT9954-W
249	**MUT9990-C**	MUT9990-50	MUT9990	MUT9990-W
253	**MUT9957-C**	-	-	-
255	**MUT9962-C**	-	-	-
261	**MUT9956-C**	-	-	-
296* beige	**MUT9924-C**	-	-	-
297* yellow olive	**MUT9923-C**	-	-	-
298* white	**MUT9921-C**	-	-	-
299* brown	**MUT9918-C**	-	-	-
300* pink	**MUT9916-C**	-	-	-
305	**MUT9977-C**	-	-	-
316	**MUT9976-C**	-	-	-
317	**MUT9965-C**	-	-	-
322	**MUT9971-C**	-	-	-
324* red	**MUT9920-C**	-	-	-
327	**MUT9961-C**	-	-	-
346* grey	**MUT9928-C**	-	-	-
348* pink	**MUT9926-C**	-	-	-
373	**MUT9989-C**	MUT9989-50	-	MUT9989-W
374* blue	**MUT9929-C**	-	-	-
375* green	**MUT9927-C**	-	-	-
467* rubin	**MUT9922-C**	-	-	-
470* blue	**MUT9919-C**	-	-	-
471* gold	**MUT9925-C**	-	-	-
472* green	**MUT9917-C**	-	-	-
473* black	**MUT9915-C**	-	-	-
490	**MUT9966-C**	-	-	-
642	**MUT9970-C**	-	-	-
654	**MUT9975-C**	MUT9975-50	-	-
655	**MUT9968-C**	-	-	-
658	**MUT9988-C**	MUT9988-50	-	MUT9988-W
659	**MUT9987-C**	MUT9987-50	MUT9987	MUT9987-W
936* yellow	**MUT9914-C**	-	-	-
698	**MUT9986-C**	MUT9986-50	MUT9986	MUT9986-W
699	**MUT9985-C**	MUT9985-50	-	MUT9985-W
708	**MUT9959-C**	-	-	-
756	**MUT9964-C**	-	-	-
788	**MUT9950-C**	-	-	-
790	**MUT9969-C**	-	-	-
BG	**MUT9984-C**	MUT9984-50	-	MUT9984-W
C	**MUT9983-C**	MUT9983-50	MUT9983	MUT9983-W
D	**MUT9978-C**	-	-	-
D3	**MUT9981-C**	MUT9981-50	-	-
E	**MUT9982-C**	MUT9982-50	-	MUT9982-W
F	**MUT9960-C**	-	-	-
K840	-	-	-	MUT9942-W
N	**MUT9955-C**	-	-	-
O	**MUT9980-C**	MUT9980-50	-	MUT9980-W

*Stainless steel dies

RHU600 DIES CROSS REFERENCE CHART

	DIE INDEX	DIE TYPE			
		CEMBRE	ALCOA	HUSKIE	BURNDY
	10SH	M10SH-600	6010SH	HA60-01	-
	12SH	M12SH-600	6012SH	HA60-02	-
	14SH	M14SH-600	6014SH	HA60-03	-
	16SH	M16SH-600	6016SH	HA60-04	-
	18SH	M18SH-600	6018SH	HA60-05	-
	20SH	M20SH-600	6020SH	HA60-06	-
	74SH	M74SH-600	6074SH	HA60-07	-
	75SH	M75SH-600	6075SH	HA60-08	-
	76SH	M76SH-600	6076SH	HA60-09	-
	76.1SH	M76.1SH-600	6076.1SH	-	-
	20AH	M20AH-600	6020AH	HA60-20	20AH60
	24AH	M24AH-600	6024AH	HA60-21	24AH60
	27AH	M27AH-600	6027AH	HA60-22	27AH60
	30AH	M30AH-600	6030AH	HA60-23	30AH60
	34AH	M34AH-600	6034AH	HA60-24	34AH60
	36AH	M36AH-600	6036AH	HA60-25	36AH60
	38AH	M38AH-600	6038AH	HA60-26	38AH60
	40AH	M40AH-600	6040AH	HA60-27	40AH60
	74AH	M74AH-600	6074AH	HA60-28	-
	75AH	M75AH-600	6075AH	HA60-29	75AH60
	76AH	M76AH-600	6076AH	HA60-30	76AH60
	07CD	M7CD-600	6007CD	HA60-40	07CD60
	08CD	M8CD-600	6008CD	HA60-41	08CD60
	09CD	M9CD-600	6009CD	HA60-42	09CD60
	10CD	M10CD-600	6010CD	HA60-43	10CD60
	11CD	M11CD-600	6011CD	HA60-44	11CD60
	12CD	M12CD-600	6012CD	HA60-45	12CD60
	13CD	M13CD-600	6013CD	HA60-46	13CD60
	14CD	M14CD-600	6014CD	HA60-47	14CD60
	15CD	M15CD-600	6015CD	HA60-48	15CD60
	16CD	M16CD-600	6016CD	HA60-49	16CD60
	17CD	M17CD-600	6017CD	HA60-50	17CD60

RHU1000 DIES CROSS REFERENCE CHART

DIE INDEX	DIE TYPE		
	 CEMBRE	ALCOA	HUSKIE
10SH	M10SH-1000	10010SH	HA100-01
12SH	M12SH-1000	10012SH	HA100-02
14SH	M14SH-1000	10014SH	HA100-03
16SH	M16SH-1000	10016SH	HA100-04
18SH	M18SH-1000	10018SH	HA100-05
20SH	M20SH-1000	10020SH	HA100-06
76SH	M76SH-1000	10076SH	-
20AH	M20AH-1000	10020AH	HA100-20
24AH	M24AH-1000	10024AH	HA100-21
27AH	M27AH-1000	10027AH	HA100-22
30AH	M30AH-1000	10030AH	HA100-23
34AH	M34AH-1000	10034AH	HA100-24
36AH	M36AH-1000	10036AH	HA100-25
38AH	M38AH-1000	10038AH	HA100-26
40AH	M40AH-1000	10040AH	HA100-27
76AH	M76AH-1000	10076AH	HA100-30
42AH	M42AH-1000	10042AH	HA100-34
44AH	M44AH-1000	10044AH	HA100-36
48AH	M48AH-1000	10048AH	HA100-38
07CD	M7CD-1000	10007CD	HA100-40
08CD	M8CD-1000	10008CD	HA100-41
09CD	M9CD-1000	10009CD	HA100-42
10CD	M10CD-1000	10010CD	HA100-43
11CD	M11CD-1000	10011CD	HA100-44
12CD	M12CD-1000	10012CD	HA100-45
13CD	M13CD-1000	10013CD	HA100-46
14CD	M14CD-1000	10014CD	HA100-47
15CD	M15CD-1000	10015CD	HA100-48
16CD	M16CD-1000	10016CD	HA100-49
17CD	M17CD-1000	10017CD	HA100-50
18CD	M18CD-1000	10018CD	HA100-51
19CD	M19CD-1000	10019CD	HA100-52
20CD	M20CD-1000	10020CD	HA100-53

APPENDIX



Type/Code Cross-Reference chart

Type	Code
03.6140C	3065987
03.6142C	3065989
03.6148C	3065986
03.6149C	3065985
03.6157C	3065988
1112	3005715
1116	3005720
1120	3005725
1125	3005730
1132	3005735
1140	3005740
1150	3005745
1163	3005750
1400	3003110
1401	3003114
1402	3003120
1403	3003125
1404	3003130
1405	3003135
1407	3003155
1408	3003170
1410	3005610
1411	3005615
1412	3005620
1414	3005630
1415	3005635
1700	3003015
1701	3003020
1702	3003025
1703	3003030
1704	3003035
1705	3003040
1706	3003045
1707	3003050
1708	3003055
1709	3003010
1710	3005515
1711	3005520
1712	3005525
1713	3005530
1714	3005535
1715	3005540
1719	3005510
1830	3004110
1831	3004115
1832	3004120
1835	3004222
1836	3004225
1840	3006610
1841	3006615
1842	3006620
1843	3006625
1844	3006630
1845	3006635
1846	3006640
1847	3006645
1848	3006650
1849	3006655
1861	3004515
1862	3004520
1866	3004615
1880	3016215
1881	3016220
1882	3016225
1883	3016230
1884	3016235
1885	3016240
1886	3016245
1887	3016250
1888	3016255
1889	3016405
1890	3016410
1891	3016430
1892	3016440
1893	3016460
1894	3016480
1895	3016490
1896	3016500
1897	3016510
1898	3016520
1899	3016530
2155	3051010
2156	3051015
2157	3051020
2158	3051125
2160	3051130
2161	3051135
2162	3051140
2163	3051145
2164	3051150
2171	3051310
2172	3051315
2173	3051320
2174	3051325
2176	3051430
2323	3052010
2326	3052020
2329	3052030
2333	3052110
2336	3052120
2339	3052130
2342	3052140
2344	3052150
2346	3052160
3601	3026020
3602	3026030
3603	3026040
180709	3017610
180911	3017620
180913	3017625
181113	3017630
181116	3017640
181316	3017650
181321	3017655
181621	3017660
182129	3017670
182936	3017680
183642	3017690
184248	3017700
1052007	3005900
1052009	3005903
1052011	3005906
1052013	3005909
1052016	3005912
1052021	3005915
1052029	3005918
1052036	3005921
1052042	3005924
1052048	3005927
1141012	3005120
1141112	3005155
1141200	3005170
1142007	3005010
1142009	3005015
1142011	3005020
1142013	3005025
1142016	3005030
1142021	3005035
1142029	3005040
1142036	3005045
1142042	3005050
1142048	3005055
2021012	3014120
2021014	3014110
2021034	3014130
2021038	3014115
2021058	3014125
2021100	3014135
2021112	3014155
2021114	3014145
2021118	3014140
2021200	3014170
3411012	3016645
3411014	3016615
3411034	3016665
3411038	3016625
3411100	3016695
3412011	3016635
3412016	3016657
3412021	3016685
3412029	3016705
3422016	3016658
3431100	3016895
3441012	3017045
3441034	3017065
3572007	3017410
3572011	3017430
3572013	3017445
3572016	3017455
3572021	3017480
6010.114	3016070
7032007	3010604
7032009	3010606
7032011	3010608
7032013	3010610
7032016	3010614
7032021	3010616
7032029	3010618
7032036	3010620
7032042	3010622
7032048	3010624
35720131	3017446
5116660250	3061210
5116660500	3061215
5313022048	3061605
5523036090	3061610
5527030079	3061615
1719E17	3005581
1714E34	3005572
1052007N	3005901
1052009N	3005904
1052011N	3005907
1052013N	3005910
1052016N	3005913
1052021N	3005916
1052029N	3005919
1052036N	3005922
1052042N	3005925
1052048N	3005928
1053M12	3005958
1053M12N	3005959
1053M16	3005961
1053M16N	3005962
1053M20	3005964
1053M20N	3005965
1053M25	3005967
1053M25N	3005968
1053M32	3005970
1053M32N	3005971
1053M40	3005973
1053M40N	3005974
1053M50	3005976
1053M50N	3005977
1053M63	3005979
1053M63N	3005980
1112N	3005716
1116N	3005721
1120N	3005726
1125N	3005731
1132N	3005736
1140N	3005741
1141012N	3005121
1141112N	3005156
1141200N	3005171
1142007G	3005012
1142007N	3005011
1142009G	3005017
1142009N	3005016
1142011G	3005022
1142011N	3005021
1142013G	3005027
1142013N	3005026
1142016G	3005032
1142016N	3005031
1142021G	3005037
1142021N	3005036
1142029G	3005042
1142029N	3005041
1142036G	3005047
1142036N	3005046
1142042G	3005052
1142042N	3005051
1142048G	3005057
1142048N	3005056
1143M12	3005215
1143M12G	3005217
1143M12N	3005216
1143M16	3005220
1143M16G	3005222
1143M16N	3005221
1143M20	3005225
1143M20G	3005227
1143M20N	3005226
1143M25	3005230
1143M25G	3005232
1143M25N	3005231
1143M32	3005235
1143M32G	3005237
1143M32N	3005236
1143M40	3005240
1143M40G	3005242
1143M40N	3005241
1143M50	3005245
1143M50G	3005247
1143M50N	3005246
1143M63	3005250
1143M63G	3005252
1143M63N	3005251
1150N	3005746
1153M1612	3018860
1153M2012	3018862
1153M2016	3018864
1153M2016N	3018865
1153M2512	3018866
1153M2516	3018868
1153M2520	3018870
1153M2520N	3018871
1153M3216	3018874
1153M3220	3018876
1153M3225	3018878
1153M3225N	3018879
1153M4020	3018882
1153M4025	3018884
1153M4032	3018886
1153M5025	3018890
1153M5032	3018892
1153M5040	3018894
1153M6332	3018898
1153M6340	3018900
1153M6350	3018902
1163N	3005751
1173M1216	3018810
1173M1620	3018812
1173M2025	3018814
1173M2532	3018816
1173M3240	3018820
1253M12	3006750
1253M12N	3006751
1253M16	3006755
1253M16N	3006756
1253M20	3006760
1253M20N	3006761
1253M25	3006765
1253M25N	3006766
1253M32	3006770
1253M32N	3006771
1253M40	3006775
1253M40N	3006776
1253M50	3006780
1253M50N	3006781
1253M63	3006785
1253M63N	3006786
1401B	3003116
1401BN	3003117
1401N	3003115
1402N	3003121
1410N	3005611
1411N	3005616
1412N	3005621
1414N	3005631
1415N	3005636
1500.07	3002010
1500.07N	3002011
1500.09	3002015
1500.09N	3002016
1500.11	3002020
1500.11N	3002021
1500.12	3002120
1500.12N	3002121
1500.13	3002025
1500.13N	3002026
1500.14	3002110
1500.14N	3002111
1500.16	3002030
1500.16N	3002031
1500.21	3002035
1500.21N	3002036
1500.34	3002130
1500.34N	3002131
1500.38	3002115
1500.38N	3002116
1500.M12	3002205
1500.M12N	3002206
1500.M16	3002210
1500.M16N	3002211
1500.M20	3002215
1500.M20N	3002216
1500.M25	3002220
1500.M25N	3002221
1500.M32	3002225
1500.M32N	3002226
1618.90	3041350
1626.90	3041360
1636.90	3041370
1651.90	3041380
1676.90	3041390
1700.2	3004015
1700.2N	3004016
1700N	3003016
1700T	3003515

Type/Code Cross-Reference chart

Type	Code
1700TN	3003516
1701.2	3004020
1701.2N	3004021
1701N	3003021
1701T	3003517
1701TN	3003518
1702.2	3004025
1702.2N	3004026
1702.5	3004425
1702.5N	3004426
1702CONC	3003523
1702CONCN	3003524
1702N	3003026
1702T	3003519
1703.2	3004030
1703.5	3004430
1704.2	3004035
1705.2	3004040
1710N	3005516
1711N	3005521
1712N	3005526
1713N	3005531
1714N	3005536
1715N	3005541
1719E17N	3005580
1719N	3005511
1730M20	3003225
1730M20N	3003226
1830N	3004111
1831N	3004116
1832N	3004121
1836N	3004226
1840N	3006611
1841N	3006616
1842N	3006621
1843N	3006626
1844N	3006631
1845N	3006636
1846N	3006641
1847N	3006646
1848N	3006651
1849N	3006656
1861N	3004516
1862N	3004521
1866N	3004616
1884A	3016236
1888/5	3016256
1890A	3016420
1891A	3016431
1892A	3016450
1892B	3016451
1893A	3016461
1899A	3016535
1899B	3016540
1900.07	3001010
1900.07/X	3001077
1900.07G	3001012
1900.07N	3001011
1900.09	3001015
1900.09/X	3001080
1900.09G	3001017
1900.09N	3001016
1900.11	3001020
1900.11/X	3001083
1900.11G	3001022
1900.11N	3001021
1900.12	3001120
1900.12N	3001121
1900.13	3001025
1900.13/X	3001086
1900.13G	3001027
1900.13N	3001026
1900.14	3001110
1900.14N	3001111
1900.16	3001030
1900.16/X	3001089
1900.16G	3001032
1900.16N	3001031
1900.21	3001035
1900.21/X	3001092
1900.21G	3001037
1900.21N	3001036
1900.29	3001040
1900.29/X	3001095
1900.29G	3001042
1900.29N	3001041
1900.34	3001130
1900.34N	3001131
1900.36	3001045
1900.36/X	3001098
1900.36G	3001047
1900.36N	3001046
1900.38	3001115
1900.38N	3001116
1900.42	3001050
1900.42/X	3001101
1900.42G	3001052
1900.42N	3001051
1900.48	3001055
1900.48/X	3001104
1900.48G	3001057
1900.48N	3001056
1900.M12	3001215
1900.M12/X	3001310
1900.M12G	3001217
1900.M12N	3001216
1900.M16	3001220
1900.M16/X	3001313
1900.M16G	3001222
1900.M16N	3001221
1900.M20	3001225
1900.M20/X	3001316
1900.M20G	3001227
1900.M20N	3001226
1900.M25	3001230
1900.M25/X	3001319
1900.M25G	3001232
1900.M25N	3001231
1900.M32	3001235
1900.M32/X	3001322
1900.M32G	3001237
1900.M32N	3001236
1900.M40	3001240
1900.M40/X	3001325
1900.M40G	3001242
1900.M40N	3001241
1900.M50	3001245
1900.M50/X	3001328
1900.M50G	3001247
1900.M50N	3001246
1900.M63	3001250
1900.M63/X	3001331
1900.M63G	3001252
1900.M63N	3001251
1900DP.07	3001150
1900DP.09	3001153
1900DP.11	3001156
1900DP.13	3001159
1900DP.16	3001162
1900DP.21	3001165
1900DP.29	3001168
1900DP.36	3001171
1900DP.42	3001174
1900DP.48	3001177
1900DP.M12	3013380
1900DP.M16	3013383
1900DP.M20	3013386
1900DP.M25	3013389
1900DP.M32	3013392
1900DP.M40	3013395
1900DP.M50	3013398
1900DP.M63	3013401
1901.07	3001503
1901.07N	3001504
1901.09	3001515
1901.09N	3001516
1901.11	3001520
1901.11N	3001521
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9.A1D3N	3201853
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9.A2D7N	3201873
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A03-M6	2100190
A06-M3	2101030
A06-M3.5	2101070
A06-M4	2101110
A06-M5	2101150
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A100-M16	2370030
A100-M20	2370110
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A10-M12	2220190
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A10-M16	2220270
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A120-2M16	2372510
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A120-M16	2372070
A120-M20	2372150
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A12-M12	2230310
A12-M6/15	2230210
A12-M8	2230230
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A14-2M102426/345	2241572
A14-2M12	2241605
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A14-2M12-30-29	2241592
A14-2M123029/345	2241593
A14-2M12-40	2241600
A14-2M14	2241620
A14-2M8	2241555
A14-2M8-24-24	2241552
A14-2M8-2424/345	2241550
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A14-L8	2241245
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A14-M12	2240270
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A160-2M16	8008432
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A160-M20	2374170
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A19-2M102426/345	2261351
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A19-2M8-2424/345	2261330
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A19-M8	2260150
A19-M8/19	2260160
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A1-M10	2103270
A1-M3	2103030
A1-M3.5	2103070
A1-M4	2103110
A1-M5	2103150
A1-M6	2103190
A1-M8	2103230
A200-M16	2376090
A200-M20	2376100
A20-M10	2270270
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A24-2M10-22	2281815
A24-2M102429/345	2281827
A24-2M10-25/24	2281817
A24-2M10-33.5	2281825
A24-2M12	2281930
A24-2M12-30-29	2281910
A24-2M123029/345	2281911
A24-2M12-40	2281920
A24-2M14	2282210
A24-2M16	2282213
A24-2M8-20	2281780
A24-2M8-24-29	2281790
A24-2M8-2429/345	2281791
A24B-2M8-25/19	2281777
A24B-2M8-45/19	2281779
A24B-M10/19	2280155
A24B-M8/19	2280115
A24-L10	2281010
A24-L12	2281050
A24L-2M10-30AS	2281840
A24-M10	2280150
A24-M12	2280190
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A24-M8	2280110
A29-M10	2290270
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A29-M8	2290230
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A2-L5	2170820
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A2-M10	2170270
A2-M12	2170310
A2-M4	2170070
A2-M5	2170150
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A2-M6	2170190
A2-M8	2170230
A2-P12	2170650
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A2-U5	2170520
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A30-2M12	2301370
A30-2M12-30	2301350
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A30-2M123029/345	2301360
A30-2M12-40	2301367
A30-2M14	2301650
A30-2M14-33.5	2301653
A30-2M8-20	2301250
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A30B-M10/19	2300120
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A30-M12	2300150
A30-M14	2300230
A30-M16	2300270
A30-M20	2300350
A30-M8	2300070
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A37-2M10-25/315	2320891
A37-2M12	2320910
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A37-2M123031/345	2320920
A37-2M12-32	2320915
A37-2M14	2320970
A37-2M14-35	2320950
A37-2M16	8008485
A37-2M16-40	2320990
A37-4ESI	2321510
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A37-L10	2320510
A37-L12	2320550
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A37-M16	2320230
A37-M20	2320270
A37-M8	2320070
A3-L10	2180659
A3-L12	2180670
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A3-L8	2180640
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A3-M12	2180310
A3-M4	2180030
A3-M5	2180110
A3-M5/9	2180120
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A3-M8	2180190
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A3-P22R	2180840
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A3-U4	2181990
A3-U5	2182000
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A40-M16	2330350
A40-M20	2330390
A48-2M10	2340750
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A48-2M10-35	2340740
A48-2M12	2340820
A48-2M12/345	2340775
A48-2M12-30/45	2340765
A48-2M12-30-31	2340770
A48-2M123031/345	2340771
A48-2M12-35	2340790
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A48-2M14	2340860
A48-2M14-40	2340850
A48-2M16	2340870
A48-4ESI	2340950
A48-L10	2341293
A48-L12	2341295
A48-M10	2340110
A48-M10/31	2340120
A48-M12	2340150
A48-M12/31	2340158
A48-M14	2340190
A48-M16	2340230
A48-M16/31	2340238
A48-M20	2340310
A48-M8	2340070
A5-2M10-24-13	2190470
A5-2M12-3029/345	2190480
A5-2M8-20	2190450
A5-2M8-24-24	2190460
A5-2M8-24-24/345	2190461
A5-L10	2190750
A5-L12	2190760
A5-L4	2190620
A5-L5	2190630
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A5-M4	2190030
A5-M5	2190070
A5-M5/9	2190075
A5-M6	2190110
A5-M8	2190150
A5-P16	2191510
A5-P22R	2191515
A5-P22R/45	2191518
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A60-2M12	2350600
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A60-2M123038/345	2350621
A60-2M12-40	2350610
A60-2M14	2350660
A60-2M16	2350740
A60-2M16/36	8008380
A60-2M16-35	2350750
A60-2M16-40	2350730
A60-4ESI	2350850
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A60B-M12/31	2350072
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A60-M16	2350190
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A7-2M12	2200998
A7-2M12-25	2200990
A7-2M12-40	2200995
A7-2M8	8008632
A7B-M6/11.5	2200120
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A7-L8	2200750
A7-M10	2200190
A7-M12	2200230
A7-M5	2200070
A7-M6	2200110
A7-M8	2200150
A7-P20	2201750
A80-2M12	2360450
A80-2M14	2360510
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A80-2M16	2360605
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A80-4ESI	2360850
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A80-M14	2360070
A80-M16	2360110
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A9-M10	2210270
A9-M12	2210310
A9-M6/15	2210210
A9-M8	2210230
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AA120-M14	2741550
AA150-M12	2742030
AA150-M14	2742070
AA150S-2M12/29ST	2742038
AA16-M8	2740020
AA185-M12	2742510
AA185-M14	2742550
AA240-M12	2743030
AA240-M14	2743070
AA25-M8	2740050
AA300-34-M12	2743205
AA300-34-M14	2743210
AA300-34-M16	2743215
AA300-M16	2743150
AA35-M10	2740075
AA35-M8	2740070
AA400-M16	2743310
AA500-40-M16	2743330
AA50-M12	2740110
AA50-M14	2740150
AA630-M16	2743370
AA70-M12	2740510
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AA95-M12	2741030
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AAD185-M12	8016846
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AAD240-M12	8016852
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AAD240-M20	8016856
AAD25-M10	8016806
AAD25-M8	8016804
AAD300-M12	8016858
AAD300-M16	8016860
AAD300-M20	8016862
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AAD400-M12	8016864
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AAD500-M12	8016870
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AAD500-M20	8016874
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AAD70-M10	8016820
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AAD70-M16	8016824
AAD95-M10	8016826
AAD95-M12	8016828
AAD95-M16	8016830
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AB19N	3041533
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AN24-M10	2454050
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AN3-M12	2415450
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AN3-M5	2415290
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AN3-M8	2415370
AN5-M10	2418170
AN5-M12	2418210

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AN5-M6	2418090
AN5-M8	2418130
AN7-M10	2422090
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AN7-M6	2422010
AN7-M8	2422050
ANE10-M10	2439370
ANE10-M12	2439380
ANE10-M6	2439350
ANE10-M8	2439360
ANE12-M10	2442220
ANE12-M10/19	2442225
ANE12-M12	2442230
ANE12-M6/15	2442200
ANE12-M8	2442210
ANE14-M10	2446430
ANE14-M12	2446440
ANE14-M14	2446450
ANE14-M6	2446410
ANE14-M8	2446420
ANE17-M10	2447260
ANE17-M10/19	2447265
ANE17-M12	2447270
ANE17-M14	2447280
ANE17-M16	2447290
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ANE20-M8	2451310
ANE24-M10	2453530
ANE24-M12	2453550
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ANE2-U5	2408865
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ANE35-M12	2460010
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ANE5-M8	2418530
ANE5-P16	2418560
ANE7-M10	2422320
ANE7-M12	2422330
ANE7-M6	2422300
ANE7-M8	2422310
ANE7-P20	2422360
ANE9-M10	2430170
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ANE9-M6/15	2430150
ANE9-M8	2430160
ASC55-EU	2598485
ASC55-UK	2598486
ASC55-USA/CA	2598487
ASC55-AUS/NZ	2598488
ASC55-MULTI8-EU	2598517
ASC55-MULTI8-US	2598518
ASC145-EU	2598481
ASC145-UK	2598482
ASC145-USA/CA	2598483
ASC145-AUS/NZ	2598480
ASC145DUO-EU	2598476
ASC145DUO-UK	2598477
ASC145DUO-USA/CA	2598478
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AU130-240	2615590
AU230-130-D	2636960
AU230-630	2680300
AU520-130-C	2648230
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AU55-W	2672511
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B15MA	2599841
B15MDE	2599839
B15MDT	2599840
B1300-C	2599350
B1300-CA	2599351
B1300-CE	2599352
B1300-CT	2599353
B1300-C-KV	2599388
B1300-CA-KV	2599389
B1300-CE-KV	2599390
B1300-CT-KV	2599391
B1300-UC	2599365
B1300-UCA	2599366
B1300-UCE	2599367
B1300-UCT	2599368
B1300L-C	2599358
B1300L-CA	2599359
B1300L-CE	2599360
B1300L-CT	2599361
B1300L-C-KV	2599380
B1300L-CA-KV	2599381
B1300L-CE-KV	2599382
B1300L-CT-KV	2599383
B1300PL	2598542
B1300PLA	2598541
B1300PLE	2598555
B1300PLT	2598539
B1300PK-KV	2598839
B1300PE-KV	2598849
B1350-C	2599320
B1350-CA	2599322
B1350-CE	2599323
B1350-CT	2599324
B1350-C-KV	2599340
B1350-CA-KV	2599341
B1350-CE-KV	2599342
B1350-CT-KV	2599343
B1350L-C	2599327
B1350L-CA	2599328
B1350L-CE	2599329
B1350L-CT	2599330
B1350L-C-KV	2599345
B1350L-CA-KV	2599346
B1350L-CE-KV	2599357
B1350-UC	2599335
B1350-UCA	2599336
B1350-UCE	2599337
B1350-UCT	2599338
B450ND-BV	2596235
B450ND-BVE	2596236
B450ND-BVT	2596237
B500	2596205
B500A	2596211
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B500T	2596213
B500-KV	2596207
B500A-KV	2596206
B500E-KV	2596208
B500T-KV	2596209
B500ND	2596220
B500NDA	2596221
B500NDE	2596222
B500NDT	2596223
B540ND6	2599979
B600C	2596217
B600CND	2596218
B68M-P18	2596163
B68M-P18A	2596164
B68M-P18E	2596165
B68M-P18T	2596166
B68M-P18-KV-RC1	2596172
B68RC3-85	2597970
B68RC3-96	2597972
B68RC3-120	2597974
B70M-P36	2596030
B70M-P36A	2596031
B70M-P36E	2596032
B70M-P36T	2596033
B70M-P36-CH	2596046
B70M-P36A-CH	2596040
B70M-P36E-CH	2596039
BA-3	2598424
BCB1-W	3066002
BCB1-WA	3066006
BCB1-WE	3066007
BCB2-W	3066004
BCB2-WA	3066008
BCB2-WE	3066009
BL12HKS	3065040
BL6HKS	3065042
BLC250	3065390
BF-BF5	2053630
BF-BM5	2053660
BF-F405	2053560
BF-F405P	2053565
BF-F408	2053570
BF-F408P	2053575
BF-F608	2053610
BF-F608P	2053620
BF-FM608	2053690
BF-M10	2052390
BF-M12	2052430
BF-M2	2052010
BF-M3	2052030
BF-M3.5	2052070
BF-M3.5/1	2052110
BF-M4	2052150
BF-M5	2052190
BF-M6	2052230
BF-M6/1	2052270
BF-M6/2	2052280
BF-M608	2053650
BF-M608P	2053655
BF-M7	2052310
BF-M8	2052350
BF-P10	2053250
BF-P12	2053290
BF-P8	2053210
BF-PP10	2053320
BF-PP12	2053330
BF-PP12/25	2053370
BF-PP12/29	2053380
BF-PP16/25	2053410
BF-PPL30	2053460
BF-PPL46	2053465
BF-U10	2052910
BF-U12	2052950
BF-U3	2052630
BF-U3.5	2052670
BF-U3.5/1	2052671
BF-U4	2052710
BF-U4/1	2052720
BF-U4/2	2052730
BF-U5	2052750
BF-U5/2	2052765
BF-U6	2052790
BF-U6/1	2052830
BF-U8	2052870
BKF-BF4	2053632
BKF-BM4	2053662
BKF-F405	2053562
BKF-F405P	2053567
BKF-F408	2053572
BKF-F408P	2053577
BKF-F608	2053612
BKF-F608P	2053622
BKF-FM608	2053692
BKF-M608	2053652
BKY-M10	2145874
BKY-M12	2145878
BKY-M3	2145842
BKY-M3.5	2145845
BKY-M3.5/1	2145847
BKY-M4	2145853
BKY-M5	2145856
BKY-M6/1	2145862
BKY-M8	2145871
BKY-P10	2145932
BKY-P12	2145934
BKY-P8	2145930
BKY-PP12	2145940
BKY-PP12/25	2145942
BKY-PP16/23	2145944
BKY-PPL30	2145950
BKY-PPL46	2145952
BKY-U3	2145900
BKY-U3.5	2145903
BKY-U4	2145906
BKY-U5	2145909
BKY-U6	2145912
BKY-U6/1	2145914
BN-FA608	3031640
BN-FAB608	3031660
BN-FAR608	3031680
BN-M10	2152390
BN-M12	2152430
BN-M2	2152010
BN-M3	2152030
BN-M3.5	2152070
BN-M3.5/1	2152110
BN-M4	2152150
BN-M5	2152190
BN-M6	2152230
BN-M6/1	2152270
BN-M7	2152310
BN-M8	2152350
BN-MA608	3031740
BN-P10	2153190
BN-P12	2153230
BN-P8	2153150
BN-PP12	2153270
BN-PP12/25	2153310
BN-PP16/25	2153350
BN-U10	2152910
BN-U12	2152950
BN-U3	2152630
BN-U3.5	2152670
BN-U3.5/1	2152680
BN-U4	2152710
BN-U4/1	2152730
BN-U4/2	2152732
BN-U5	2152750
BN-U6	2152790
BN-U6/1	2152830
BN-U8	2152870
BP-M10	2046345
BP-M12	2046350
BP-M2	2046305
BP-M3	2046310
BP-M3.5	2046315
BP-M3.5/1	2046316
BP-M4	2046320
BP-M5	2046325
BP-M6	2046330
BP-M6/1	2046331
BP-M6/2	2046332
BP-M7	2046335
BP-M8	2046340
BP-P10	2046415
BP-P12	2046420
BP-P8	2046410
BP-PP12	2046440
BP-PP12/25	2046445
BP-PP12/29	2046450
BP-PP16/25	2046455
BP-PPL30	2046470
BP-PPL46	2046475
BPS230.14	2598500
BPS230.96	2598497
BP-U10	2046565
BP-U12	2046570
BP-U3	2046510
BP-U3.5	2046515
BP-U3.5/1	2046516
BP-U4	2046530
BP-U4/1	2046531
BP-U4/2	2046540
BP-U5	2046545
BP-U6	2046555
BP-U6/1	2046556
BP-U8	2046560
BSCL1	2489535
BSCL1/0	2489540
BSCL2	2489530
BSCL2/0	2489545
BSCL250	2489560
BSCL3	2489525

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Type	Code
BSCL3/0	2489550
BSCL300	2489565
BSCL350	2489570
BSCL4	2489520
BSCL4/0	2489555
BSCL400	2489575
BSCL500	2489580
BSCL6	2489515
BSCL600	2489585
BSCL750	2489590
BSCL8	2489510
B-FC470	2598880
B-FC470A	2598881
B-FC470E	2598882
B-FL750	2598865
B-FL750A	2598866
B-FL750E	2598867
B-FL750T	2598864
B-FL750ND	2598790
B-FL750NDA	2598791
B-FL750NDE	2598792
B-FL750NDT	2598793
B-TC250	2596266
B-TC250YA	2596261
B-TC250E	2596268
B-TC250T	2596269
B-TC250ND	2599540
B-TC250YNDA	2599521
B-TC250YNDT	2599523
B-TC250NDE	2599541
B-TC250NDT	2599542
B-TC320ND	2596285
B-TC320NDA	2596286
B-TC320NDE	2596287
B-TC320NDT	2596288
B-TC320NDF	2596290
B-TC320NDFA	2596291
B-TC320NDFE	2596292
B-TC320NDFT	2596293
B-TC450	2599405
B-TC450A	2599406
B-TC450E	2599407
B-TC4500	2599409
B-TC4500A	2599417
B-TC4500E	2599418
B-TC4500T	2599419
B-TC500	2598827
B-TC500A	2598828
B-TC500E	2598829
B-TC500T	2598819
B-TC500ND-SC	2596300
B-TC500ND-SCA	2596302
B-TC500ND-SCE	2596301
B-TC500ND-SCT	2596303
B-TC500Y	2598815
B-TC500YA	2598816
B-TC500YE	2598817
B-TC550	2599420
B-TC550A	2599421
B-TC550E	2599422
B-TC550T	2599423
B-TC650	2599440
B-TC650A	2599441
B-TC650E	2599442
B-TC650T	2599443
B-TC650-SC	2599430
B-TC650-SCA	2599431
B-TC650-SCE	2599432
B-TC650-SCT	2599433
B-TC950	2599460
B-TC950A	2599461
B-TC950E	2599462
B-TC950T	2599463
B-TD270	2598951
B-TD270A	2598952
B-TD270E	2598953
B-TD270T	2598954
B-TD410T	2598945
B-TD410TA	2598946
B-TD410TE	2598947
B-TD410T-T	2598948
C1/0-12	2396280
C1/0-14	2396220
C1/0-38	2396260
C1/0-516	2396240
C1/0-58	2396320
C1/0-916	2396300
C10-C10	2490070
C10-C10ST	2492070
C1-12	2396080
C1-14	2396020
C120-C120	2490630
C120-C120ST	2492630
C1-38	2396060
C150-C120	2490670
C150-C120ST	2492670
C150-C150	2490690
C150-C150ST	2492690
C1-516	2396040
C16-C16	2490110
C16-C16ST	2492110
C185-C185	2490745
C185-C185ST	2492745
C185-C95	2490710
C185-C95ST	2492710
C2/0-12	2396480
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C2/0-34	2396540
C2/0-38	2396460
C2/0-516	2396440
C2/0-58	2396520
C2/0-916	2396500
C2-10	2395820
C2-12	2395900
C2-14	2395840
C2-38	2395880
C240-C120	2490760
C240-C120ST	2492760
C250-12	2397080
C250-14	2397020
C250-34	2397140
C250-38	2397060
C250-516	2397040
C250-58	2397120
C250-78	2397160
C250-916	2397100
C2-516	2395860
C25-C10	2490150
C25-C10ST	2492150
C25-C25	2490190
C25-C25ST	2492190
C3/0-12	2396680
C3/0-14	2396620
C3/0-34	2396740
C3/0-38	2396660
C3/0-516	2396640
C3/0-58	2396720
C3/0-916	2396700
C300-12	2397360
C300-34	2397420
C300-38	2397340
C300-516	2397320
C300-58	2397400
C300-78	2397440
C300-916	2397380
C3-10	2395640
C3-12	2395720
C3-14	2395660
C3-38	2395700
C350-12	2397540
C350-34	2397600
C350-38	2397520
C350-58	2397580
C350-78	2397620
C350-916	2397560
C3-516	2395680
C35-C16	2490230
C35-C16ST	2492230
C35-C35	2490270
C35-C35ST	2492270
C3-8	2395620
C4/0-12	2396880
C4/0-14	2396820
C4/0-34	2396940
C4/0-38	2396860
C4/0-516	2396840
C4/0-58	2396920
C4/0-916	2396900
C400-12	2397740
C400-34	2397800
C400-38	2397720
C400-58	2397780
C400-78	2397820
C400-916	2397760
C4-10	2395440
C4-12	2395520
C4-14	2395460
C4-38	2395500
C4-516	2395480
C4-8	2395420
C500-12	2397940
C500-34	2398000
C500-38	2397920
C500-58	2397980
C500-78	2398020
C500-916	2397960
C50-C25	2490350
C50-C25ST	2492350
C50-C50	2490390
C50-C50ST	2492390
C600-12	2398120
C600-34	2398180
C600-58	2398160
C600-78	2398200
C600-916	2398140
C6-10	2395240
C6-12	2395320
C6-14	2395260
C6-38	2395300
C6-516	2395280
C6-8	2395220
C6-C6	2490030
C6-C6ST	2492030
C70-C25N	2490310
C70-C25N-ST	2492310
C70-C35	2490430
C70-C35ST	2492430
C70-C70	2490470
C70-C70ST	2492470
C750-12	2398320
C750-34	2398380
C750-58	2398360
C750-78	2398400
C8-10	2395040
C8-12	2395120
C8-14	2395060
C8-38	2395100
C8-516	2395080
C8-8	2395020
C95-C35	2490510
C95-C35ST	2492510
C95-C70	2490550
C95-C70ST	2492550
C95-C95	2490590
C95-C95ST	2492590
CA120-2M12	8005766
CA120-M12	8005566
CA120-M16	8005570
CA150-2M12	8005776
CA150-M12	8005576
CA150-M16	8005580
CA150R-2M14	2533010
CA150R-M12	2532810
CA150R-M14	2532850
CA150S-2M14	2533330
CA150S-M12	2533210
CA150S-M14	2533250
CA185-2M12	8005786
CA185-M12	8005586
CA185-M16	8005590
CA200R-2M14	2533570
CA200R-M14	2533530
CA240-M12	8005594
CA240-M16	8005596
CA240-M20	8005600
CA240R-2M14	2533850
CA240R-M14	2533770
CA25-2M12	2530210
CA25-2M8	2530130
CA25-M10	2530050
CA25-M12	2530090
CA25-M8	2530010
CA300-2M12	8005806
CA300-M12	8005604
CA300-M16	8005608
CA300-M20	8005610
CA315R-2M14	2534430
CA315R-M14	2534330
CA315S-2M14	2534610
CA315S-M14	2534530
CA35-2M12	8005726
CA35-M10	8005524
CA35-M12	8005526
CA35-M16	8005530
CA40S-2M12	2530510
CA40S-M12	2530450
CA40S-M16	2530490
CA50-2M12	8005736
CA50R-2M12	2530870
CA50R-M12	2530790
CA50S-2M12	2531190
CA50S-M12	2531110
CA50S-M16	2531150
CA70-M12	2531870
CA70S-2M12	2531510
CA70S-M12	2531430
CA70S-M16	2531470
CA95-2M12	8005756
CA95-M10	8005554
CA95-M12	8005556
CA95-M16	8005560
CA95R-2M14	2532230
CA95R-M12	2532150
CA95R-M14	2532190
CA95S-2M14	2532610
CA95S-M12	2532450
CA95S-M14	2532490
CA95S-M16	2532500
CAA10-M12	2760005
CAA120-M12	2760310
CAA150-M12	2760350
CAA16-M12	2760012
CAA185-M12	2760430
CAA240-M12	2760590
CAA25-M12	2760030
CAA300-34-M12	2760680
CAA300-34-M14	2760690
CAA300-34-M16	2760715
CAA300-M16	2760710
CAA35-M12	2760070
CAA400-M16	2760750
CAA500-M16-TNBD	2760852
CAA50-M12	2760110
CAA630-4M8	2760950
CAA70-M12	2760150
CAA95-M12	2760190
CB1430H	2598502
CB1430L	2598494
CB1820L	2598495
CB1852L	2598514
CB3662L	2870229
CB3680L	2870209
CB9630H	2598504
CBL01	3066010
CBL02-W	3066012
CBL03-W	3066014
CBL04-W	3066016
CBL05-W	3066018
CBL06	3066020
CBL07	3066022
CBL02-WA	3066032
CBL03-WA	3066033
CBL04-WA	3066034
CBL05-WA	3066035
CBL06A	3066036
CBL07A	3066037
CBL02-WE	3066052
CBL03-WE	3066053
CBL04-WE	3066054
CBL05-WE	3066055
CBL06E	3066056
CBL07E	3066057
CBL08HD	3066070
CBL09HD	3066072
CBL10HD	3066074
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CBP-F408	2076540
CBP-F408P	2076543
CBP-F608	2076545
CBP-F608P	2076550
CBP-M3	2076310
CBP-M3.5	2076315
CBP-M3.5/1	2076320
CBP-M4	2076325
CBP-M5	2076335
CBP-M6	2076340
CBP-M6/1	2076345
CBP-M608	2076560
CBP-M7	2076350
CBP-M8	2076355
CBP-P10	2076455
CBP-P12	2076460
CBP-P8	2076450
CBP-PP12	2076480
CBP-PP12/25	2076490
CBP-PPL30	2076498
CBP-U3	2076380
CBP-U3.5	2076385

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CBP-U4/2	2076405
CBP-U4/3L	2076408
CBP-U5	2076410
CBP-U6	2076415
CC8.9	3041630
CC9.12	3041632
CDD6	2599940
CDD6-8	2599941
CFA2-600	3031942
CFA300	3031900
CFA400	3031914
CFA600	3031928
CFAB600	3031970
CFAR600	3031956
CFC230N	2598490
CGP-F608	2076845
CGP-F608P	2076850
CGP-M10	2076670
CGP-M3	2076610
CGP-M3.5	2076615
CGP-M4	2076625
CGP-M5	2076635
CGP-M6	2076640
CGP-M6/1	2076645
CGP-M608	2076860
CGP-M7	2076650
CGP-M8	2076660
CGP-M8/1	2076665
CGP-P10	2076755
CGP-P12	2076760
CGP-P14	2076765
CGP-PP12	2076780
CGP-PP17	2076790
CGP-U3.5	2076685
CGP-U4	2076695
CGP-U5	2076710
CGP-U6	2076715
CL1/0-10	2396385
CL1/0-12	2396397
CL1/0-38	2396394
CL1/0-516	2396391
CL1/0-D14	2396360
CL1/0-D141	2396361
CL1/0-D38	2396370
CL1/0-DN	2396375
CL1/0IH-10	2396405
CL1/0IH-12	2396413
CL1/0IH-38	2396411
CL1/0IH-516	2396409
CL1-10	2396183
CL1-12	2396191
CL1-516	2396187
CL1-D14	2396160
CL1-D141	2396161
CL1-D38	2396170
CL1-DN	2396175
CL1IH-10	2396205
CL1IH-12	2396217
CL1IH-516	2396211
CL2/0-12	2396594
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CL2/0-D141	2396561
CL2/0-D38	2396570
CL2/0-DN	2396575
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CL2/0IH-38	2396609
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CL2-12	2395997
CL2-14	2395988
CL250-12	2397204
CL250-D38	2397180
CL250-DN	2397185
CL250IH-12	2397229
CL2-516	2395991
CL2-D14	2395960
CL2-D141	2395961
CL2-D38	2395970
CL2-DN	2395975
CL2-DN38	2395971
CL2IH-10	2396005
CL2IH-12	2396017
CL2IH-14	2396008
CL2IH-516	2396011
CL3/0-12	2396794
CL3/0-D141	2396761
CL3/0-D38	2396770
CL3/0-DN	2396775
CL3/0IH-12	2396811
CL300-12	2397491
CL300-D38	2397470
CL300-DN	2397475
CL300IH-12	2397509
CL3-12	2395797
CL3-14	2395788
CL3-38	2395794
CL350-12	2397688
CL350-D141	2397661
CL350-D38	2397670
CL350-DN	2397675
CL350IH-12	2397708
CL3-516	2395791
CL3-D38	2395770
CL3-DN	2395775
CL3IH-12	2395817
CL3IH-14	2395808
CL3IH-38	2395814
CL3IH-516	2395811
CL4/0-12	2396994
CL4/0-38	2396991
CL4/0-D141	2396961
CL4/0-D38	2396970
CL4/0-DN	2396975
CL4/0-DN38	2396971
CL4/0IH-12	2397011
CL4/0IH-38	2397009
CL400-12	2397888
CL400-58	2397894
CL400-D141	2397861
CL400-D38	2397870
CL400-DN	2397875
CL400IH-12	2397908
CL400IH-58	2397914
CL4-10	2395585
CL4-12	2395597
CL4-14	2395588
CL4-38	2395594
CL4-D14	2395560
CL4-D141	2395561
CL4-D38	2395570
CL4-DN	2395575
CL4IH-10	2395605
CL4IH-12	2395617
CL4IH-14	2395608
CL4IH-38	2395614
CL500-12	2398088
CL500-58	2398094
CL500-D141	2398061
CL500-D38	2398070
CL500-DN	2398075
CL500IH-12	2398108
CL500IH-58	2398114
CL600-12	2398285
CL600-58	2398291
CL600-D38	2398270
CL600-DN	2398275
CL600IH-12	2398305
CL600IH-58	2398311
CL6-10	2395385
CL6-12	2395397
CL6-14	2395388
CL6-D14	2395360
CL6-D141	2395361
CL6-D38	2395370
CL6-DN	2395375
CL6IH-10	2395405
CL6IH-12	2395417
CL6IH-14	2395408
CL750-12	2398485
CL750-58	2398488
CL750-D38	2398470
CL750-DN	2398475
CL750-DN38	2398471
CL750IH-12	2398505
CL750IH-58	2398508
CL8-10	2395183
CL8-14	2395186
CL8-38	2395192
CL8-D14	2395160
CL8-D141	2395161
CL8-D38	2395170
CL8IH-10	2395203
CL8IH-14	2395206
CL8IH-38	2395212
CM02	3065952
CMA600	3031984
CMB1	2599943
CMB2	2599945
CP1086-W-1000-KV	2597905
CP1096	2597700
CP1096-W-1000-KV	2597695
CP1120	2597962
CP1120-W-1000-KV	2597958
CP1131	2610120
CP1300P-85-KV	2597912
CP1300P-96-KV	2597915
CP1300P-120-KV	2597918
CPC100-8	3065328
CPE-1	2592751
CPE-1-110	2592752
CPKC7508	2808650
CPKD108	2808582
CPKD1508	2808587
CPKD2508	2808592
CPKD508	2808573
CPKD7508	2808578
CPP-0	2592671
CPU1131-C	2610150
CPU1230-3D	2630200
CPW500	3065395
CRH12	3065660
CRP-F305	2076225
CRP-F308	2076230
CRP-F405	2076235
CRP-F405P	2076237
CRP-F408	2076240
CRP-F408P	2076242
CRP-F608	2076245
CRP-F608P	2076250
CRP-M3	2076010
CRP-M3.5	2076015
CRP-M3.5/1	2076020
CRP-M4	2076025
CRP-M4/3	2076030
CRP-M5	2076035
CRP-M6	2076040
CRP-M6/1	2076045
CRP-M608	2076260
CRP-M7	2076050
CRP-M8	2076055
CRP-P10	2076155
CRP-P12	2076160
CRP-P8	2076150
CRP-PP12	2076180
CRP-PP12/1	2076185
CRP-PP12/23	2076190
CRP-PP14	2076195
CRP-PPL30	2076205
CRP-U3	2076080
CRP-U3.5	2076085
CRP-U3.5/2	2076090
CRP-U4	2076095
CRP-U4/1	2076100
CRP-U4/2	2076105
CRP-U5	2076110
CRP-U6	2076115
CRP-U6/1	2076120
CRP-U8	2076125
CS-CPE-1	2592748
CTBB1	3065022
CTBP1	3064985
CTSB1	3065020
CTSB2	3065038
CVB-001	2593300
CVB-007	2593295
CVB-010	2593298
CVB-011	2593299
CVB-013	2593294
CVB-029/1	2593286
CVB-031	2593312
CVB-037	2593315
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CW130	3065420
CW140	3065422
CW150	3065424
CW170	3065426
CW180	3065428
CW190	3065430
CW220	3065432
CW240	3065434
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CW320	3065440
CW60	3065410
CW70	3065412
CW80	3065414
DB100-13/2	2843724
DB100-13/4	2843744
DB100-6/2	2843722
DB100-6/4	2843742
DB125-10/4	2843747
DB125-10/4C	2843787
DB125-14/2	2843726
DB125-14/2C	2843782
DB125-14/4	2843748
DB125-14/4C	2843788
DB125-6/2	2843725
DB125-6/4	2843746
DB125-7/1N	2843703
DB160-11/4	2843750
DB160-7/1N	2843705
DB250-11/1N	2843707
DB400-11/1N	2843709
DB40-11/4	2843740
DB40-15/2	2843720
DB500-11/1N	2843711
DB80-6/1N	2843701
DJ160	2843697
DK50-M12	2830080
DK70-M12	2830082
DK70-2M12-51AS	2830092
DK95-M12	2830084
DK95-2M12-51AS	2830094
DK120-M12	2830086
DK120-2M12-51AS	2830096
DNB125-9	2843690
DNB160-10	2843692
DR10-10	2388015
DR10-5	2388000
DR10-6	2388005
DR10-8	2388010
DR120-2M12-51AS	2388999
DR120-10	2388460
DR120-12	2388470
DR120-16	2388490
DR120-20	2388500
DR120-8	2388450
DR150-10	2388530
DR150-12	2388540
DR150-16	2388560
DR150-20	2388570
DR16-10	2388050
DR16-12	2388060
DR16-6	2388030
DR16-8	2388040
DR185-10	2388600
DR185-12	2388610
DR185-16	2388620
DR240-10	2388710
DR240-12	2388720
DR240-16	2388730
DR240-20	2388740
DR25-10	2388130
DR25-12	2388140
DR25-16	2388160
DR25-6	2388110
DR25-8	2388120
DR300-10	2388780
DR300-12	2388790
DR300-16	2388810
DR300-20	2388820
DR35-10	2388230
DR35-12	2388240
DR35-16	2388246
DR35-6	2388210
DR35-8	2388220
DR400-12	2388870
DR400-16	2388890
DR400-20	2388900
DR500-12	2388950
DR500-16	2388970
DR500-20	2388980
DR50-10	2388260
DR50-12	2388270
DR50-14	2388280
DR50-16	2388290
DR50-6	2388250
DR50-8	2388255
DR625-16	2389050
DR625-20	2389060
DR6-5	2387910
DR6-6	2387920
DR6-8	2387930
DR70-2M12-51AS	2388995
DR70-10	2388330
DR70-12	2388340
DR70-14	2388350

CEMBRE

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DR70-16	2388360
DR70-20	2388380
DR70-8	2388320
DR95-2M12-51AS	2388997
DR95-10	2388395
DR95-12	2388400
DR95-14	2388410
DR95-16	2388420
DR95-20	2388430
DR95-8	2388390
DSC12-100L	3065680
DSC12-170L	3065685
DSC12-190L	3065687
DSC12-240L	3065689
DSC12-300L	3065691
DSC12-320L	3065693
DSV10	2489015
DSV1000	2489095
DSV120	2489050
DSV150	2489055
DSV16	2489020
DSV185	2489060
DSV240	2489065
DSV25	2489025
DSV300	2489070
DSV35	2489030
DSV400	2489075
DSV50	2489035
DSV500	2489080
DSV6	2489010
DSV625	2489085
DSV70	2489040
DSV800	2489090
DSV95	2489045
DSVA1000	8016417
DSVA120	8016406
DSVA150	8016407
DSVA16	8016400
DSVA185	8016408
DSVA240	8016409
DSVA25	8016401
DSVA300	8016410
DSVA35	8016402
DSVA400	8016411
DSVA401	8016413
DSVA50	8016403
DSVA500	8016412
DSVA501	8016414
DSVA625	8016415
DSVA70	8016404
DSVA800	8016416
DSVA95	8016405
EBC12-250	3065668
ECW-H3D	2630073
EK100	2597990
EK500P	2597992
EKL0EPA12N	2847001
EKL0S	2848001
EKL1BEPA12N	2847003
EKL1S	2848003
EKL2EPA12N	2847005
EKL2S	2848010
EKL3EM4PA12N	2847007
EKL3S	2848007
EKL4BESVCE	2848009
ELB-3	2598422
EN06-M3	2400000
EN06-M3.5	2400020
EN06-M4	2400010
EN06-M5	2400050
EN06-M6	2400090
EN06-M8	2400130
EN10-M10	2441530
EN10-M12	2441570
EN10-M14	2441610
EN10-M16	2441650
EN10-M6	2441450
EN10-M8	2441490
EN14-M10	2445490
EN14-M12	2445530
EN14-M14	2445570
EN14-M16	2445610
EN14-M6	2445410
EN14-M8	2445450
EN19-M10	2450430
EN19-M12	2450470
EN19-M14	2450510
EN19-M16	2450550
EN19-M20	2450590
EN19-M6	2450350
EN19-M8	2450390
EN1-M10	2406010
EN1-M3	2405820
EN1-M3.5	2405830
EN1-M4	2405850
EN1-M5	2405890
EN1-M6	2405930
EN1-M8	2405970
EN24-M10	2454870
EN24-M12	2454910
EN24-M14	2454950
EN24-M16	2454990
EN24-M20	2455030
EN24-M8	2454830
EN2-M10	2409050
EN2-M12	2409090
EN2-M4	2408900
EN2-M5	2408930
EN2-M6	2408970
EN2-M8	2409010
EN30-M10	2458870
EN30-M12	2458910
EN30-M14	2458950
EN30-M16	2458990
EN30-M20	2459030
EN30-M8	2458830
EN37-M12	2461050
EN3-M10	2416110
EN3-M12	2416150
EN3-M4	2415950
EN3-M5	2415990
EN3-M6	2416030
EN3-M8	2416070
EN48-M10	2467490
EN48-M12	2467530
EN48-M14	2467570
EN48-M16	2467610
EN48-M20	2467650
EN60-M12	2469030
EN60-M14	2469070
EN60-M16	2469110
EN60-M20	2469150
EN7-M10	2423410
EN7-M12	2423450
EN7-M5	2423270
EN7-M6	2423330
EN7-M8	2423370
EN80-M12	2469280
EN80-M16	2469290
ENR06-M3	2400820
ENR06-M3.5	2400830
ENR06-M4	2400850
ENR06-M5	2400890
ENR06-M6	2400930
ENR06-M8	2400970
ENR10-M10	2441090
ENR10-M12	2441130
ENR10-M14	2441170
ENR10-M16	2441210
ENR10-M6	2441010
ENR10-M8	2441050
ENR2-M10	2409470
ENR2-M12	2409510
ENR2-M4	2409300
ENR2-M5	2409350
ENR2-M6	2409390
ENR2-M8	2409430
EPB-1N	2598453
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ERCH-WH	2596114
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ES03-BR	2470450
ES03-BU	2470410
ES03-GY	2470430
ES03-RE	2470510
ES03-YE	2470550
ES06-BK	2470471
ES06-BR	2470451
ES06-BU	2470411
ES06-GY	2470431
ES06-RE	2470511
ES06-YE	2470551
ES10-BK	2470476
ES10-BR	2470456
ES10-BU	2470416
ES10-GY	2470436
ES10-RE	2470516
ES10-YE	2470556
ES14-BK	2470477
ES14-BR	2470457
ES14-BU	2470417
ES14-GY	2470437
ES14-RE	2470517
ES14-YE	2470557
ES19-BK	2470478
ES19-BR	2470458
ES19-BU	2470418
ES19-GY	2470438
ES19-RE	2470518
ES19-YE	2470558
ES1-BK	2470472
ES1-BR	2470452
ES1-BU	2470412
ES1-GY	2470432
ES1-RE	2470512
ES1-YE	2470552
ES24-BK	2470479
ES24-BR	2470459
ES24-BU	2470419
ES24-GY	2470439
ES24-RE	2470519
ES24-YE	2470559
ES2-BK	2470473
ES2-BR	2470453
ES2-BU	2470413
ES2-GY	2470433
ES2-RE	2470513
ES2-YE	2470553
ES30-BK	2470480
ES30-BR	2470460
ES30-BU	2470420
ES30-GY	2470440
ES30-RE	2470520
ES30-YE	2470560
ES37-BK	2470481
ES37-BR	2470461
ES37-BU	2470421
ES37-GY	2470441
ES37-RE	2470521
ES37-YE	2470561
ES3-BK	2470474
ES3-BR	2470454
ES3-BU	2470414
ES3-GY	2470434
ES3-RE	2470514
ES3-YE	2470554
ES40-BK	2470482
ES40-BR	2470462
ES40-BU	2470422
ES40-GY	2470442
ES40-RE	2470522
ES40-YE	2470562
ES48-BK	2470483
ES48-BR	2470463
ES48-BU	2470423
ES48-GY	2470443
ES48-RE	2470523
ES48-YE	2470563
ES5-BK	2470475
ES5-BR	2470455
ES5-BU	2470415
ES5-GY	2470435
ES5-RE	2470515
ES5-YE	2470555
ES80-BK	2470484
ES80-BR	2470464
ES80-BU	2470424
ES80-GY	2470444
ES80-RE	2470524
ES80-YE	2470564
F050-WE	8420033
F075-WE	8420032
F2.5-WE	8420034
FD11	3017354
FD13.5	3017356
FD16	3017358
FD21	3017360
FD29	3017362
FD36	3017364
FD42	3017366
FD48	3017368
FD7	3017350
FD9	3017352
FDM12	3017375
FDM16	3017374
FDM20	3017377
FDM25	3017379
FDM32	3017381
FDM40	3017383
FDM50	3017385
FDM63	3017387
FL10-150	2510070
FL10-150-ST	2518510
FL10-200	2510150
FL10-200-ST	2518550
FL10-250	2510190
FL10-250-ST	2518590
FL16-150	2510470
FL16-150-ST	2518870
FL16-200	2510550
FL16-200-ST	2518910
FL16-250	2510590
FL16-250-ST	2518950
FL16-320	2510670
FL16-320-ST	2518990
FL16-350	2510690
FL16-350-ST	2519030
FL16-420	2510710
FL16-420-ST	2519070
FL16-570	2510750
FL16-570-ST	2519150
FL16-660	2510790
FL16-660-ST	2519170
FL25-150	2510950
FL25-150-ST	2519530
FL25-200	2511070
FL25-200-ST	2519570
FL25-250	2511110
FL25-250-ST	2519610
FL25-300	2511190
FL25-300-ST	2519690
FLS3	3026810
FLS5	3026815
G100X2.5	3041710
G100X2.5/M	3041712
G100X2.5N	3041711
G100X2.5N/M	3041713
G1020X9.0	3041910
G1020X9.0N	3041911
G1030X12.6	3041950
G1030X12.6N	3041951
G120X2.5	3041715
G120X2.5N	3041716
G120X3.6	3041745
G120X3.6N	3041746
G120X4.8	3041785
G120X4.8N	3041786
G1220X9.0	3041915
G1220X9.0N	3041916
G140X2.5	3041720
G140X2.5/M	3041722
G140X2.5N	3041721
G140X2.5N/M	3041723
G140X3.6	3041750
G140X3.6/M	3041753
G140X3.6N	3041751
G140X3.6N/M	3041752
G150X3.6	3041755
G150X3.6N	3041756
G150X7.6	3041845
G150X7.6N	3041846
G160X2.5	3041725
G160X2.5/M	3041727
G160X2.5N	3041726
G160X2.5N/M	3041728
G160X4.8	3041790
G160X4.8N	3041791
G180X3.6	3041760
G180X3.6N	3041761
G190X4.8	3041795
G190X4.8/M	3041797
G190X4.8N	3041796
G190X4.8N/M	3041798
G200X2.5	3041730
G200X2.5/M	3041732
G200X2.5N	3041731
G200X2.5N/M	3041733
G200X3.6	3041765
G200X3.6/M	3041767
G200X3.6N	3041766
G200X3.6N/M	3041768
G200X4.8	3041800
G200X4.8/M	3041802
G200X4.8N	3041801
G200X4.8N/M	3041803
G200X7.6	3041850
G200X7.6N	3041851
G230X12.6	3041920
G230X12.6N	3041921
G250X2.8	3041735

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G250X2.8N	3041736
G250X3.6	3041770
G250X3.6N	3041771
G250X4.8	3041805
G250X4.8/M	3041807
G250X4.8N	3041806
G250X4.8N/M	3041808
G250X7.6	3041855
G250X7.6N	3041856
G280X4.8	3041810
G280X4.8N	3041811
G300X2.8	3041740
G300X2.8N	3041741
G300X3.6	3041775
G300X3.6/M	3041777
G300X3.6N	3041776
G300X3.6N/M	3041778
G300X4.8	3041815
G300X4.8N	3041816
G300X7.6	3041860
G300X7.6N	3041861
G370X3.6	3041780
G370X3.6N	3041781
G370X4.8	3041820
G370X4.8N	3041821
G370X7.6	3041865
G370X7.6N	3041866
G380X12.6	3041925
G390X4.8	3041825
G390X4.8N	3041826
G430X4.8	3041830
G430X4.8N	3041831
G430X7.6	3041870
G430X7.6N	3041871
G430X9.0	3041880
G430X9.0N	3041881
G450X4.8	3041835
G450X4.8N	3041836
G480X12.6	3041930
G480X12.6N	3041931
G530X4.8	3041840
G530X4.8N	3041841
G530X7.6	3041875
G530X7.6N	3041876
G530X9.0	3041885
G530X9.0N	3041886
G580X12.6	3041935
G580X12.6N	3041936
G710X9.0	3041890
G710X9.0N	3041891
G730X12.6	3041940
G730X12.6N	3041941
G780X9.0	3041895
G780X9.0N	3041896
G80X2.4	3041700
G80X2.4/M	3041702
G80X2.4N	3041701
G80X2.4N/M	3041703
G830X9.0	3041900
G830X9.0N	3041901
G880X12.6	3041945
G880X12.6N	3041946
G90X2.4	3041705
G90X2.4N	3041706
G920X9.0	3041905
G920X9.0N	3041906
GA-3	2598429
GF-F608	2055630
GF-F608P	2055650
GFH100X2.5	3042810
GFHT112X2.5	3042805
GF-M10	2054250
GF-M10/1	2054290
GF-M12	2054330
GF-M14	2054370
GF-M16	2054410
GF-M3	2054010
GF-M3.5	2054030
GF-M4	2054070
GF-M5	2054110
GF-M6	2054150
GF-M6/1	2054160
GF-M608	2055670
GF-M7	2054170
GF-M8	2054210
GF-M8/1	2054220
GF-P10	2055310
GF-P12	2055350
GF-P14	2055370
GF-PP12	2055390
GF-PP17	2055430
GF-PPL46	2055465
GF-U10	2054810
GF-U10/1	2054850
GF-U12	2054890
GF-U14	2054930
GF-U16	2054970
GF-U3.5	2054610
GF-U4	2054650
GF-U5	2054690
GF-U6	2054730
GF-U8	2054770
GH8	3041550
GK-F608	2145500
GK-F608P	2145502
GKF-M608	2055672
GKY-M10	2145997
GKY-M12	2146000
GKY-M14	2146003
GKY-M16	2146006
GKY-M3.5	2145982
GKY-M4	2145985
GKY-M5	2145988
GKY-M6	2145991
GKY-M8	2145994
GKY-P14	2146040
GKY-PP12	2146045
GKY-PP17	2146047
GKY-PPL46	2146055
GKY-U3.5	2146020
GKY-U4	2146023
GKY-U5	2146026
GKY-U6	2146029
GKY-U8	2146032
GN-M10	2154250
GN-M10/1	2154290
GN-M12	2154330
GN-M14	2154370
GN-M16	2154410
GN-M3	2154010
GN-M3.5	2154030
GN-M4	2154070
GN-M5	2154110
GN-M6	2154150
GN-M6/1	2154160
GN-M7	2154170
GN-M8	2154210
GN-M8/1	2154220
GN-P10	2155250
GN-P12	2155290
GN-P14	2155310
GN-PP12	2155330
GN-PP17	2155370
GN-U10	2154850
GN-U10/1	2154890
GN-U12	2154930
GN-U14	2154970
GN-U16	2155010
GN-U3.5	2154650
GN-U4	2154690
GN-U5	2154730
GN-U6	2154770
GN-U8	2154810
GP-M10	2046645
GP-M10/1	2046646
GP-M12	2046650
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GXAC840X7.9	3042360
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H95-H95	2490912
H95-H95ST	2490913
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HB23	2591222
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HT131LN-C	2610419
HT131-UC	2610436
HT45-E	2650040
HT51	2670610
HT51-KV	2670611
HT60C	2670205
HT61	2670235
HT81-U	2600036
HT-FL75	2665030
HT-TC026	2591406
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HT-TC041N	2591427
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HT-TC051Y	2591475
HT-TC055	2591445
HT-TC065	2591477
HT-TC0851	2591496
HWE1N	2590910
HX1	2590298
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I38-MS	6060128
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IN06-M8	2400330
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IN24-M10	2454490
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IN60-M16	2468830
IN60-M20	2468870

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INR37-M16	2461630
INR37-M20	2461670
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KA14-38	3065734
KA38-12	3065730
KA38-14	3065732
KAK9	3065280
KCW12	3065295
KCW16	3065297
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KE106ST	2802310
KE110ST	2802390
KE1508ST	2802510
KE1510ST	2802550
KE16-15	2599861
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KE25015ST	2803455
KE25018ST	2803460
KE2508ST	2802670
KE2510ST	2802710
KE35015ST	2803475
KE35018ST	2803480
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LVL200	3065312
LVL400	3065314
M108-520	2648752
M108-C	2611860
M10CD-1000	2649516
M10CD-600	2649211
M10SH-1000	2649550
M10SH-600	2649265
M110-520	2648754
M113	2651130
M113-50	2675855
M113-C	2611870
M118	2651150
M118-50	2675860
M118-C	2611910
M11CD-1000	2649518
M11CD-600	2649213
M12CD-1000	2649520
M12CD-600	2649215
M12SH-1000	2649552
M12SH-600	2649267
M13CD-1000	2649522
M13CD-600	2649217
M140	2651170
M140-50	2675870
M140-C	2612010
M145-520	2648770
M14CD-1000	2649524
M14CD-600	2649219
M14SH-1000	2649554
M14SH-600	2649269
M158	2651200
M158-50	2675880
M158-C	2612130
M15CD-1000	2649526
M15CD-600	2649221
M160-520	2648771
M16CD-1000	2649528
M16CD-600	2649223
M16SH-1000	2649556
M16SH-600	2649271
M173	2651210
M173-50	2675890
M173-C	2612230
M173L-C	2612240
M17CD-1000	2649530
M17CD-600	2649225
M18CD-1000	2649532
M18SH-1000	2649558
M18SH-600	2649273
M190-50	2675900
M190-520	2648772
M190-C	2612330
M19CD-1000	2649534
M208-C	2612420
M20AH-1000	2649570
M20AH-600	2649235
M20CD-1000	2649536
M20SH-1000	2649560
M20SH-600	2649275
M215-50	2675910
M215-520	2648773
M215-C	2612490
M220-520	2648774
M232-C	2612590
M24AH-1000	2649572
M24AH-600	2649237
M255-520	2648776
M27AH-1000	2649574
M27AH-600	2649239
M295-520	2648780
M30AH-1000	2649576
M30AH-600	2649241
M340-520	2648784
M34AH-1000	2649578
M34AH-600	2649243
M36AH-1000	2649580
M36AH-600	2649245
M38AH-1000	2649582
M38AH-600	2649247
M40AH-1000	2649584
M40AH-600	2649249
M42AH-1000	2649586
M440-520	2648840
M44AH-1000	2649588
M48AH-1000	2649590
M540-520	2648910
M70	2651090
M70-50	2675800
M70-C	2611590
M74AH-600	2649253
M74SH-600	2649277
M75	2651100
M75-50	2675805
M75AH-600	2649255
M75-C	2611650
M75SH-600	2649279
M76.1SH-600	2649283
M76AH-1000	2649592
M76AH-600	2649257
M76SH-1000	2649562
M76SH-600	2649281
M7CD-1000	2649510
M7CD-600	2649205
M8CD-1000	2649512
M8CD-600	2649207
M96	2651110
M96-50	2675850
M96-C	2611800
M9CD-1000	2649514
M9CD-600	2649209
MA03/3-15	2599870
MA1	2650110
MA10	2650190
MA100-3D	2631790
MA100-520	2645690
MA10-50	2675666
MA10-C	2610860
MA120-3D	2631810
MA120-520	2645711
MA12-50	2675668
MA12-C	2610870
MA14-50	2675670
MA14-C	2610880
MA1-50	2675658
MA160-520	2645731
MA17-50	2675672
MA17-C	2610890
MA19-50	2675674
MA19-C	2610900
MA2.3	2650130
MA2.3-50	2675660
MA200-520	2645750
MA20-50	2675675
MA20-C	2610910
MA24-50	2675676
MA24-C	2610920
MA29-C	2610930
MA2-C	2610810
MA30-C	2610940
MA35-C	2610950
MA37-C	2610960
MA3-C	2610820
MA40-C	2610970
MA48-C	2610980
MA5	2650150
MA5-50	2675662
MA5-C	2610830
MA60-C	2610990
MA7	2650170
MA7-50	2675664
MA7-C	2610840
MA80-3D	2631770
MA80-520	2645671
MA9	2650180
MA9-50	2675665
MA9-C	2610850
MB2-80-U	2604350
MB3-80-U	2604400
MBCB-1	3065982
MBCB-1D	3065983
MBS50-240NC	2777035
MBS-RH	2593250
MC0	2650490
MC0-U	2603510
MC10	2650530
MC10-50	2675610
MC10-C	2611100
MC185-3D	2632030
MC185-C	2611150
MC2	2650500
MC240-3D	2632035
MC25	2650550
MC25-50	2675620
MC25-C	2611110
MC3-WE	8420018
MC35	2650570
MC35-50	2675630
MC35-C	2611120
MC4-WE	8420019
MC6	2650510
MC6-50	2675605
MC70-3D	2632010
MC70-50	2675640
MC70-C	2611130
MC95-3D	2632020
MC95-C	2611140
MCCC16-C	2617050
MCCC25-C	2617070
MCCC35-C	2617090
MCCC50-C	2617110
MCS4-15	2599868
ME03/2-15	2599875
ME1	2652010
ME1-50	2676005
ME1-60C	2670850
ME10	2652130
ME100-3D	2634940
ME100-520	2648552
ME10-50	2676060
ME10-60C	2670862
ME10-C	2614211
ME12	2652150
ME120-3D	2634950
ME120-520	2648554
ME12-50	2676070
ME12-60C	2670864
ME12-C	2614213
ME14	2652170

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Type/Code Cross-Reference chart

Type	Code
ME14-50	2676080
ME14-60C	2670866
ME14-C	2614215
ME160-520	2648556
ME17	2652190
ME17-50	2676090
ME17-60C	2670868
ME17-C	2614217
ME19	2652210
ME19-50	2676100
ME19-60C	2670870
ME19-C	2614219
ME2	2652030
ME2-50	2676010
ME2-60C	2670852
ME2-C	2614201
ME2/3-15	2599876
ME20	2652230
ME200-520	2648558
ME20-50	2676110
ME20-60C	2670872
ME20-C	2614221
ME24	2652250
ME24-50	2676120
ME24-60C	2670874
ME24-C	2614223
ME24L	2652251
ME29	2652260
ME29-50	2676130
ME29-60C	2670876
ME29-C	2614225
ME3	2652050
ME3-60C	2670854
ME30	2652270
ME30-50	2676140
ME30-60C	2670878
ME30-C	2614227
ME30L	2652271
ME3-50	2676020
ME35-50	2676150
ME35-60C	2670880
ME35-C	2614229
ME37-50	2676160
ME37-60C	2670882
ME37-C	2614231
ME3-C	2614203
ME40-50	2676165
ME40-60C	2670884
ME40-C	2614233
ME40-U	2604950
ME48-50	2676170
ME48-60C	2670886
ME48-C	2614235
ME5	2652070
ME5-50	2676030
ME5-60C	2670856
ME5-C	2614205
ME60-50	2676172
ME60-60C	2670888
ME60-C	2614237
ME7	2652090
ME7-50	2676040
ME7-60C	2670858
ME7-C	2614207
ME80-3D	2634930
ME80-520	2648550
ME80-C	2614239
ME9	2652110
ME9-50	2676050
ME9-60C	2670860
ME9-C	2614209
MFB13-40	2598040
MFB50-63	2598045
MH10/16-15	2599886
MH10-50	2675210
MH10-60C	2671012
MH10-C	2614171
MH120-50	2675280
MH120-60C	2671026
MH120-C	2614185
MH120L-50	2675281
MH150-50	2675290
MH150-60C	2671028
MH150-C	2614187
MH150L	2654381
MH150L-50	2675291
MH16-50	2675220
MH16-60C	2671014
MH16-C	2614173
MH185-50	2675300
MH185-60C	2671030
MH185-C	2614189
MH240-50	2675310
MH240-60C	2671032
MH240-C	2614191
MH25-50	2675230
MH25-60C	2671016
MH25-C	2614175
MH300-50	2675315
MH300-60C	2671034
MH300-C	2614193
MH35-50	2675240
MH35-60C	2671018
MH35-C	2614177
MH400-C	2614195
MH50-50	2675250
MH50-C	2614179
MH50-60C	2671020
MH6-60C	2671010
MH70-50	2675260
MH70-60C	2671022
MH70-C	2614181
MH95-50	2675270
MH95-60C	2671024
MH95-C	2614183
MK10	2651640
MK10-50	2675410
MK10-60C	2671056
MK10-C	2614270
MK12	2651670
MK12-50	2675430
MK12-C	2614280
MK12-60C	2671058
MK13-C	2614285
MK13-60C	2671059
MK14	2651700
MK14-3D	2634781
MK14-50	2675450
MK14-60C	2671060
MK14-C	2614290
MK15-C	2614295
MK15L-C	2614296
MK16	2651730
MK16-3D	2634783
MK16-50	2675470
MK16-60C	2671062
MK16-C	2614300
MK17-C	2614305
MK17S-C	2614307
MK18	2651750
MK18-3D	2634785
MK18-50	2675490
MK18-60C	2671064
MK18-C	2614310
MK19-C	2614315
MK19-60C	2671065
MK20	2651770
MK20-3D	2634786
MK20-50	2675510
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MK20-C	2614320
MK21-C	2614325
MK22-3D	2634787
MK22-50	2675530
MK22-60C	2671068
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MK22L	2651791
MK22L-50	2675534
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MK28-C	2614350
MK28L-C	2614351
MK30-C	2614355
MK30L-C	2614356
MK32-3D	2634800
MK32-50	2675564
MK32-60C	2671074
MK32-C	2614360
MK32L-C	2614361
MK34-3D	2634810
MK34-C	2614370
MK34L-C	2614371
MK38-3D	2634830
MK42-3D	2634850
MK44-3D	2634870
MK46-3D	2634880
MK5	2651575
MK5/8-15	2599890
MK5-50	2675360
MK5-60C	2671050
MK6-60C	2671052
MK5-C	2614249
MK6	2651580
MK6-50	2675370
MK6-C	2614250
MK7-C	2614254
MK7-60C	2671053
MK8	2651610
MK8-50	2675390
MK8-60C	2671054
MK8-C	2614260
MK9-C	2614265
MK9-60C	2671055
MK10B-60C	2671080
MK12B-60C	2671082
MK14B-60C	2671084
MK16B-60C	2671086
MK18B-60C	2671088
MK22B-60C	2671090
MK25B-60C	2671092
MK28B-60C	2671094
MK32B-60C	2671096
MK34B-60C	2671098
ML150-240-16C	2752182
ML95-240-16C	2752177
MLA50-240-12NC	2752170
MLL1	2590802
MLL90	2590812
MLRJ1	2590815
MLS1	2590805
MLS2	2590807
MMT200-50	2676388
MMT200-C	2611190
MMT200-U	2601170
MMT25-50	2676380
MMT25-C	2611160
MMT25-U	2601050
MMT315-C	2611200
MMT50-50	2676382
MMT50-C	2611170
MMT50-U	2601090
MMT95-50	2676384
MMT95-C	2611180
MMT95-U	2601130
MN10-C	2610560
MN10RF-50	2676250
MN10RF-C	2610768
MN12-C	2610570
MN12F-50	2676260
MN12F-C	2610770
MN14-C	2610580
MN14RF-50	2676270
MN14RF-C	2610772
MN17-C	2610591
MN17F-50	2676280
MN17F-C	2610774
MN19-C	2610600
MN19RF-50	2676285
MN19RF-C	2610776
MN20-C	2610610
MN20F-50	2676290
MN20F-C	2610778
MN24-C	2610620
MN24RF-50	2676295
MN24RF-C	2610780
MN29-C	2610625
MN29F-C	2610782
MN2-C	2610511
MN2RF-50	2676210
MN2RF-C	2610760
MN30-C	2610630
MN30RF-C	2610784
MN35-C	2610635
MN35F-C	2610786
MN37-C	2610640
MN37RF-C	2610788
MN3-C	2610520
MN3RF-50	2676220
MN3RF-C	2610762
MN48-C	2610650
MN48RF-C	2610790
MN5-C	2610530
MN5RF-50	2676230
MN5RF-C	2610764
MN60-C	2610660
MN7-C	2610540
MN7RF-50	2676240
MN7RF-C	2610766
MN80-3D	2631450
MN9-C	2610551
MO10-50	2675100
MO12-50	2675110
MO16-50	2675120
MO18-50	2675130
MO20-50	2675140
MO21-50	2675143
MO22-50	2675146
MO24-50	2675150
MP608	3031810
MP608/45	3031815
MP608/90	3031820
MP608D	3031830
MQ10-50	2675010
MQ16-50	2675013
MQ25-50	2675016
MQ35-50	2675019
MQ50-50	2675021
MQ70-50	2675024
MQM10-C	2610661
MQM120-C	2610668
MQM150-C	2610669
MQM16-C	2610662
MQM185-C	2610670
MQM240-C	2610671
MQM25-C	2610663
MQM35-C	2610664
MQM50-C	2610665
MQM70-C	2610666
MQM95-C	2610667
MQS150-C	2610755
MQS16-C	2610752
MQS240-C	2610756
MQS35-C	2610753
MQS70-C	2610754
MRD22-C	2616950
MRD24-C	2616952
MRD29-C	2616954
MRD32-C	2616956
MRH22-50	2675085
MRH26-C	2616802
MRH30-C	2616804
MRH32-C	2616806
MS10	2652515
MS10/16-15	2599881
MS10-50	2676830
MS10-60C	2670808
MS120	2652550
MS120-50	2676900
MS120-60C	2670822
MS150	2652555
MS150-50	2676910
MS150-60C	2670824
MS150L	2652556
MS150L-50	2676911
MS16	2652520
MS16-25-U	2605355
MS16-50	2676840
MS16-60C	2670810
MS185-50	2676920
MS185-60C	2670826
MS185-U	2605375
MS240-50	2676925
MS240-60C	2670828
MS240-U	2605380
MS25	2652525
MS25-50	2676850
MS25-60C	2670812
MS300-50	2676930
MS300-60C	2670830
MS35	2652530
MS35-50	2676860
MS35-60C	2670814
MS35-50-U	2605360
MS4/10-15	2599880
MS50	2652535
MS50-50	2676870
MS50-60C	2670816
MS6	2652510
MS6-10-U	2605350
MS6-50	2676820
MS6-60C	2670805
MS70	2652540
MS70-150-U	2605365
MS70-50	2676880

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Type	Code
MS70-60C	2670818
MS95	2652545
MS95-120-U	2605370
MS95-50	2676890
MS95-60C	2670820
MT120-C12	8006254
MT120-C16	8006258
MT120-GC	8006150
MT120-TD	8006050
MT150-C10	8006252
MT150-C12	8006264
MT150-C14-80	8006266
MT150-C16	8006268
MT150-GC	8006160
MT150R-C12	2545010
MT150R-C16	2545090
MT150R-GC	2541870
MT150R-TD	2540550
MT150S-C12	2545310
MT150S-C14-80	2546270
MT150S-C16	2545350
MT150S-GC	2541910
MT150S-TD	2540630
MT150-TD	8006060
MT185-C10	8006262
MT185-C16	8006278
MT185-GC	8006170
MT185-TD	8006070
MT200R-C10	2545540
MT200R-C16	2545550
MT200R-GC	2542030
MT200R-TD	2540670
MT240-C12	8006284
MT240-C16	8006288
MT240-GC	8006180
MT240R-C12	2545710
MT240R-C16	2545750
MT240R-GC	2542110
MT240R-TD	2540710
MT240-TD	8006080
MT25-C8	2543030
MT25-GC	2541570
MT25-TD	2540150
MT300-C16	8006298
MT300-GC	8006190
MT300-TD	8006090
MT315R-C16	2545950
MT315R-GC	2542150
MT315R-TD	2540750
MT315S-C16	2545990
MT315S-GC	2542290
MT315S-TD	2540790
MT35-C10	8006212
MT35-C14-80	8006216
MT35-C8	8006210
MT35-GC	8006110
MT35-TD	8006010
MT400-GC	8006195
MT400-TD	2540830
MT40S-C10	2543410
MT40S-C14-80	2546070
MT40S-C8	2543400
MT40S-GC	2541610
MT40S-TD	2540190
MT500-TD	2540870
MT50-C10	8006222
MT50-C14-80	8006226
MT50-C8	8006220
MT50-GC	8006120
MT50R-C10	2543650
MT50R-C8	2543610
MT50R-GC	2541690
MT50R-TD	2540270
MT50S-C10	2543850
MT50S-C14-80	2546110
MT50S-C8	2543810
MT50S-GC	2541650
MT50S-TD	2540230
MT50-TD	8006020
MT630-TD	2540890
MT70-C10	8006232
MT70-GC	8006130
MT70S-C10	2544050
MT70S-GC	2541730
MT70S-TD	2540350
MT70-TD	8006030
MT95-C10	8006242
MT95-C12	8006244
MT95-C14-80	8006246
MT95-GC	8006140
MT95R-C10	2544290
MT95R-C12	2544330
MT95R-GC	2541770
MT95R-TD	2540390
MT95S-C10	2544530
MT95S-C12	2544570
MT95S-C14-80	2546230
MT95S-GC	2541850
MT95S-TD	2540470
MT95-TD	8006040
MTA120-C	2771510
MTA150-C	2771710
MTA16-C	2770001
MTA185-C	2772150
MTA240-C	2773010
MTA25-C	2770020
MTA35-C	2770030
MTA50-C	2770310
MTA70-C	2770550
MTA95-C	2770830
MT-FC48N	2685903
MTMA10-GC	2720025
MTMA120/1	2720280
MTMA120-70-GC	2721410
MTMA120-95-GC	2721450
MTMA120-GC	2720272
MTMA150/1	2720320
MTMA150-120-GC	2721630
MTMA150-70-GC	2721550
MTMA150-95-GC	2721590
MTMA150-GC	2720330
MTMA16/1	2720031
MTMA16-10-GC	2720560
MTMA16-GC	2720035
MTMA185/1	2720370
MTMA185-120-GC	2721900
MTMA185-150-GC	2721910
MTMA185-GC	2720360
MTMA240/1	2720400
MTMA240-150-GC	2722050
MTMA240-185-GC	2722090
MTMA240-GC	2720410
MTMA25/1	2720071
MTMA25-10-GC	2720575
MTMA25-16-GC	2720580
MTMA25-GC	2720090
MTMA300-GC	2720430
MTMA35/1	2720111
MTMA35-20-GC	2720135
MTMA35-GC	2720130
MTMA400/1	2720475
MTMA400-240-GC	2722245
MTMA400-300-GC	2722250
MTMA50/1	2720160
MTMA500-300-GC	2722260
MTMA500-40/1	2720509
MTMA500-400-GC	2722270
MTMA500-GC	2720515
MTMA50-25-GC	2720650
MTMA50-35-GC	2720660
MTMA50-GC	2720152
MTMA630/1	2720530
MTMA70/1	2720191
MTMA70-35-GC	2720940
MTMA70-50-GC	2720980
MTMA70-GC	2720195
MTMA95/1	2720250
MTMA95-50-GC	2721030
MTMA95-70-GC	2721070
MTMA95-GC	2720232
MTMAD300/1	2720460
MTMAD300-150-GC	2722140
MTMAD300-185-GC	2722160
MTMAD300-240-GC	2722220
MTMAD300-95-GC	2722121
MTMAD300-GC	2720440
MTT120-50	2677275
MTT16-50	2677220
MTT25-50	2677230
MTT35-50	2677240
MTT50-50	2677250
MTT70-50	2677260
MTT95-50	2677270
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MTT10-60C	2671112
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MTT25-60C	2671116
MTT35-60C	2671118
MTT50-60C	2671120
MTT70-60C	2671122
MTT95-60C	2671124
MTT120-60C	2671126
MUA150	2616050
MUA230-630-400	2680129
MUA230-630-630	2680130
MUA240	2616070
MUA300-34	2616090
MUA35	2616010
MUA95	2616030
MUT9914-C	2612995
MUT9915-C	2612996
MUT9916-C	2612997
MUT9917-C	2612998
MUT9918-C	2612999
MUT9919-C	2613001
MUT9920-C	2613002
MUT9921-C	2613003
MUT9922-C	2613004
MUT9923-C	2613005
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MUT9929-C	2613011
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MUT9973-C	2613044
MUT9974-C	2613045
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MUT9976-C	2613047
MUT9977-C	2613048
MUT9978-C	2613049
MUT9979-C	2613050
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MUT9980-W	2664326
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MUT9982-50	2676612
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MUT9982-W	2664327
MUT9983	2654483
MUT9983-50	2676613
MUT9983-C	2613055
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MUT9984-C	2613056
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MUT9985-C	2613057
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MUT9993-C	2613065
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MUT9996-C	2613080
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MUT9997-C	2613085
MUT9997-W	2664344
MUT9998	2654498
MUT9998-50	2676548
MUT9998-C	2613090
MUT9998-W	2664346
MUT9999	2654499
MUT9999-50	2676550
MUT9999-C	2613091
MUT9999-W	2664348
MV150	2616170
MV230-400-MC5E	2680860
MV230-630-MC6E	2680870
MV240	2616180
MV35	2616150
MV95	2616160
MVM150	2616310
MVM230-400-MJ5E	2680910
MVM230-630-MJ6E	2680920
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MY10-50	2677340
MY10-C	2613380
MY14-50	2677345
MY14-C	2613385
MY16-50	2677350
MY16-C	2613390
MY19-50	2677355
MY19-C	2613395
MY24-50	2677360
MY24-C	2613400
MY24L-50	2677362
MY2-50	2677310
MY2-C	2613350
MY30-50	2677365
MY30-C	2613405
MY30L-50	2677366
MY3-50	2677315
MY36-50	2677370
MY36-C	2613410
MY37-50	2677375
MY37-C	2613415
MY3-C	2613355
MY4-50	2677320
MY48-50	2677380
MY48-C	2613420
MY4-C	2613360
MY5-50	2677325
MY5-C	2613365
MY60-C	2613425
MY6-50	2677330
MY6-C	2613370
MY7-50	2677335
MY76-C	2613430
MY7-C	2613375
N10-WE	8420017
N11	2581310
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N15	2581318
N16	2581320
ND1	2590080
ND2	2590082
ND3	2590084

CEMBRE

Type/Code Cross-Reference chart

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ND4	2590086
NL03-M	2469328
NL03-P	2110870
NL06-M	2469330
NL06-P	2111950
NL06-PB	2111960
NL1-M	2469350
NL1-P	2113970
NL1-PG	2113990
NL2-M	2469390
NL3-M	2469430
NN4-15	2599867
NY0	2581324
NY00	2581322
NY1	2581326
ON1-M10	2406390
ON1-M3	2406200
ON1-M4	2406230
ON1-M5	2406270
ON1-M6	2406310
ON1-M8	2406350
P03-M3	2110030
P03-M3.5	2110070
P03-M4	2110110
P03-M5	2110150
P03-M6	2110190
P06-M3	2111030
P06-M3.5	2111070
P06-M4	2111110
P06-M5	2111150
P06-M6	2111190
P06-M8	2111230
P1-M10	2113270
P1-M12	2113275
P1-M3	2113030
P1-M3.5	2113070
P1-M4	2113110
P1-M5	2113150
P1-M6	2113190
P1-M8	2113230
PA1	2650230
PA10	2650290
PA100-3D	2631930
PA10-50	2675686
PA10-C	2611010
PA120-3D	2631950
PA120-520	2645600
PA1-50	2675680
PA19-50	2675694
PA200-520	2645610
PA24-50	2675696
PA24-C	2611020
PA48-C	2611030
PA5	2650250
PA5-50	2675682
PA60-C	2611040
PB-1	2591046
PC1	2590705
PG-1	2591047
PH1-1	2591061
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PKC120027	2809605
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PKC412	2809455
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PKC510	2809360
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PKC618	2809480
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PKE1612	2809210
PKE1618	2809220
PKE25016	2809230
PKE25022	2809240
PKE2508	2809130
PKE2512	2809135
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PKE410	2809152
PKE412	2809155
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PKET1512	8020335
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PKET2510	8020340
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PL03-P	2051860
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PL06-P	2053860
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PN24-C	2610720
PN37-C	2610730
PN48-C	2610740
PN60-C	2610750
PN7-C	2610700
PN80-3D	2631460
PNB-1	2591040
PNB-3F/M	2591088
PNB-3N1	2591092
PNB-3N5	2591096
PNB-3NN3	2591094
PNB-3NN4	2591095
PNB-3P	2591090
PNB-3PD	2591091
PNB-4KE	2591251
PNB-6KE	2591260
PNB-6KE-T	2591262
PNB-7KE	2591268
PNB-7KE-T	2591270
PO7000	2595904
PR-1	2591045
PRCH	2596113
PS130-150/E	2616371
PS130-240/E	2616381
PS130-35/E	2616351
PS130-95/E	2616361
PS230-400-5E	2680186
PS230-630-6E	2680189
PSCB18-EU	3065995
PSCB18-UK	3065996
PSCB18-USA/CA	3065997
PV-1	2591044
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Q10-12	2167030
Q10-4	2167005
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Q10-8	2167020
Q120-10	2167545
Q120-12	2167550
Q120-16	2167555
Q120-8	2167540
Q14-MS	6060120
Q150-10	2167610
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Q16-6	2167085
Q16-8	2167090
Q185-10	2167680
Q185-12	2167685
Q185-16	2167690
Q240-10	2167750
Q240-12	2167755
Q240-16	2167760
Q25-10	2167165
Q25-12	2167170
Q25-16	2167175
Q25-5	2167150
Q25-6	2167155
Q25-8	2167160
Q35-10	2167240
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Q35-16	2167250
Q35-6	2167230
Q35-8	2167235
Q38-F	6060126
Q38-MS	6060124
Q50-10	2167320
Q50-12	2167325
Q50-16	2167330
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Q50-8	2167315
Q70-10	2167400
Q70-12	2167405
Q70-16	2167410
Q70-6	2167390
Q70-8	2167395
Q95-10	2167475
Q95-12	2167480
Q95-16	2167485
Q95-8	2167470
RA-3	2598428
RBG-15	2599850
RBY-15	2599852
RBY-WE	8420016
RCP-B70	2596116
RD100SS	2685623
RD102SS	2685636
RD114SS	2685626
RD120SS	2685624
RD126X126	2685669
RD138X138	2685670
RD140SS	2685637
RD15.5SS	2685560
RD15.5SS-FC	2685550
RD16.2SS	2685562
RD16.2SS-FC	2685552
RD17.5SS	2685564
RD17.5SS-FC	2685554
RD17SS	2685563
RD18.8SS	2685566
RD18.8SS-FC	2685556
RD18D	2685645
RD18X46	2685654
RD19.1SS	2685568
RD20.5SS	2685570
RD21.5SS	2685571
RD21X21	2685650
RD22.6SS	2685572
RD224X224	2685678
RD22X30	2685651
RD22X46	2685656
RD23.8SS	2685574
RD24D	2685647
RD25.4SS	2685576
RD27SS	2685578
RD28.5SS	2685580
RD28.5SS-19	2685584
RD29X71	2685655
RD30.5SS	2685582
RD30.5SS-19	2685586
RD31.8SS	2685588
RD32.5SS	2685590
RD34.6SS	2685592
RD34SS	2685591
RD24X43	2685653
RD24X65	2685679
RD24X86	2685680
RD24X112	2685681
RD35X65	2685675
RD36X46	2685658
RD36X65	2685686
RD36X86	2685687
RD36X112	2685688
RD37.2SS	2685594
RD37X104	2685674
RD37X115	2685661
RD37X54	2685671
RD37X67	2685672
RD37X88	2685673
RD38.1SS	2685596
RD38.5SS	2685597
RD40.5SS	2685598
RD40.5SS-FC	2685627
RD41.3SS	2685600
RD41.3SS-FC	2685628
RD42.5SS	2685602
RD42.5SS-FC	2685629
RD43.2SS	2685604
RD43.2SS-FC	2685630
RD43X43	2685685
RD44.5SS	2685606
RD44.5SS-FC	2685632
RD46X107	2685652
RD46X46	2685660
RD46X54	2685662
RD46X65	2685682
RD46X72	2685664
RD46X86	2685683
RD46X92	2685677
RD46X112	2685684
RD47.2SS	2685608
RD47.2SS-FC	2685634
RD48.5SS	2685609

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RD50.5SS	2685610
RD50X98	2685663
RD51.4SS	2685611
RD52.4SS	2685613
RD54.2SS	2685612
RD60.5SS	2685615
RD60SS	2685614
RD64SS	2685616
RD65SS	2685618
RD67X126	2685665
RD68X68	2685666
RD72X136	2685667
RD76.5SS	2685619
RD76SS	2685620
RD80.5SS	2685622
RD89SS	2685621
RD90SS	2685625
RD92X92	2685668
RFC200	3065380
RF-BF4	2051630
RF-BM4	2051660
RF-F305	2051560
RF-F305P	2051565
RF-F308	2051580
RF-F308P	2051585
RF-F405	2051600
RF-F405P	2051605
RF-F408	2051590
RF-F408P	2051595
RF-F608	2051610
RF-F608P	2051620
RF-FM608	2051690
RF-M10	2050390
RF-M12	2050430
RF-M2	2050010
RF-M3	2050030
RF-M3.5	2050070
RF-M3.5/1	2050110
RF-M4	2050150
RF-M4/3	2050170
RF-M5	2050190
RF-M6	2050230
RF-M6/1	2050270
RF-M608	2051650
RF-M608P	2051655
RF-M7	2050310
RF-M8	2050350
RF-P10	2051250
RF-P12	2051290
RF-P8	2051210
RF-PP12	2051330
RF-PP12/1	2051340
RF-PP12/19	2051370
RF-PP12/23	2051380
RF-PP14	2051410
RF-PP16/23	2051450
RF-PPL30	2051460
RF-PPL46	2051465
RF-U10	2050950
RF-U12	2050990
RF-U3	2050630
RF-U3.5	2050670
RF-U3.5/1	2050680
RF-U3.5/2	2050681
RF-U4	2050710
RF-U4/1	2050730
RF-U4/2	2050750
RF-U5	2050790
RF-U5/1	2050791
RF-U6	2050830
RF-U6/1	2050870
RF-U8	2050910
RG71-WE	8420035
RG174-WE	8420036
RG179-WE	8420037
RH50	2670050
RH60C	2670216
RH61	2670214
RHC131	2619010
RHC131LN	2619021
RH-FL75	2592597
RHM132	2619410
RHM50	2670035
RHT160	2592422
RHT160-60N	2592584
RHTD270	2682521
RHTD3241	2682502
RHTD410T	2682520
RHU1000	2640810
RHU131-C	2619210
RHU230-630	2680075
RHU450	2640011
RHU520	2640151
RHU600	2640250
RHU81	2600045
RJ45-WE	8420029
RKF-BF4	2051632
RKF-BM4	2051662
RKF-F305	2051562
RKF-F308	2051582
RKF-F405	2051602
RKF-F405P	2051607
RKF-F408	2051592
RKF-F408P	2051597
RKF-F608	2051612
RKF-F608P	2051622
RKF-FM608	2051692
RKF-M608	2051652
RKY-M10	2145715
RKY-M12	2145718
RKY-M3	2145684
RKY-M3.5	2145685
RKY-M3.5/1	2145687
RKY-M4	2145690
RKY-M5	2145699
RKY-M6/1	2145705
RKY-M8	2145711
RKY-P10	2145783
RKY-P12	2145784
RKY-P8	2145782
RKY-PP12	2145790
RKY-PP12/19	2145792
RKY-PP16/23	2145793
RKY-PPL30	2145795
RKY-PPL46	2145798
RKY-U3	2145730
RKY-U3.5	2145733
RKY-U4	2145736
RKY-U5	2145739
RKY-U6	2145742
RKY-U6/1	2145743
RN-FA305	3031610
RN-FA405	3031615
RN-FA608	3031620
RN-M10	2150430
RN-M12	2150470
RN-M2	2150010
RN-M3	2150030
RN-M3.5	2150070
RN-M3.5/1	2150110
RN-M4	2150150
RN-M4/3	2150170
RN-M5	2150190
RN-M6	2150230
RN-M6/1	2150270
RN-M7	2150350
RN-M8	2150390
RN-MA305	3031710
RN-MA405	3031715
RN-MA608	3031720
RN-P10	2151270
RN-P12	2151310
RN-P8	2151230
RN-PP12	2151350
RN-PP12/1	2151370
RN-PP12/19	2151390
RN-PP14	2151400
RN-PP16/23	2151410
RN-U10	2150990
RN-U12	2151030
RN-U3	2150670
RN-U3.5	2150710
RN-U3.5/2	2150720
RN-U4	2150750
RN-U4/1	2150760
RN-U4/2	2150790
RN-U5	2150830
RN-U5/1	2150840
RN-U6	2150870
RN-U6/1	2150910
RN-U8	2150950
RP-M10	2046045
RP-M12	2046050
RP-M2	2046005
RP-M3	2046010
RP-M3.5	2046015
RP-M3.5/1	2046016
RP-M4	2046020
RP-M4/3	2046023
RP-M5	2046025
RP-M6	2046030
RP-M6/1	2046031
RP-M7	2046035
RP-M8	2046040
RP-P10	2046115
RP-P12	2046120
RP-P8	2046110
RP-PP12	2046140
RP-PP12/1	2046145
RP-PP12/19	2046150
RP-PP12/23	2046155
RP-PP14	2046160
RP-PP16/23	2046165
RP-PPL30	2046180
RP-PPL46	2046185
RP-U10	2046265
RP-U12	2046270
RP-U3	2046210
RP-U3.5	2046215
RP-U3.5/2	2046217
RP-U4	2046230
RP-U4/1	2046231
RP-U4/2	2046240
RP-U5	2046245
RP-U5/1	2046246
RP-U6	2046255
RP-U6/1	2046256
RP-U8	2046260
RPL01-M	2590679
RS0305.07	3008006
RS0407.M12	3008050
RS0507.09	3008008
RS0509.M16	3008052
RS0710.11	3008010
RS0813.M20	3008054
RS1014.16	3008012
RS1117.M25	3008056
RS1420.21	3008014
RS1520.M32	3008058
RS1928.M40	3008060
RS2026.29	3008016
RS2635.36	3008018
RS2735.M50	3008062
RT10.5	2592470
RT11	2592480
RT13	2592490
RT13.5	2592495
RT14	2592500
RT15	2592510
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RT19	2592540
RT21	2592550
RT6.5	2592430
RT8.5	2592450
RT9	2592460
S1.5-M10	2160390
S1.5-M12	2160430
S1.5-M2	2160010
S1.5-M3	2160030
S1.5-M3.5	2160070
S1.5-M3.5/1	2160110
S1.5-M4	2160150
S1.5-M4/3	2160160
S1.5-M5	2160190
S1.5-M6	2160230
S1.5-M6/1	2160270
S1.5-M7	2160310
S1.5-M8	2160350
S1.5-P10	2161190
S1.5-P12	2161230
S1.5-P8	2161150
S1.5-PP12	2161310
S1.5-PP12/1	2161330
S1.5-PP12/19	2161350
S1.5-PP14	2161360
S1.5-U10	2160950
S1.5-U12	2160990
S1.5-U3	2160630
S1.5-U3.5	2160670
S1.5-U3.5/2	2160682
S1.5-U4	2160710
S1.5-U4/1	2160730
S1.5-U4/2	2160750
S1.5-U5	2160790
S1.5-U5/1	2160800
S1.5-U6	2160830
S1.5-U6/1	2160870
S1.5-U8	2160910
S10-M4	2165130
S10-M5	2165150
S10-M6	2165190
S10-M7	2165230
S2.5-M10	2162170
S2.5-M12	2162210
S2.5-M3	2161810
S2.5-M3.5	2161850
S2.5-M3.5/1	2161890
S2.5-M4	2161930
S2.5-M5	2161970
S2.5-M6	2162010
S2.5-M6/1	2162050
S2.5-M7	2162090
S2.5-M8	2162130
S2.5-P10	2163050
S2.5-P12	2163090
S2.5-P8	2163010
S2.5-PP12	2163170
S2.5-PP12/25	2163210
S2.5-PP16/25	2163250
S2.5-U10	2162730
S2.5-U12	2162770
S2.5-U3	2162410
S2.5-U3.5	2162450
S2.5-U3.5/1	2162460
S2.5-U4	2162490
S2.5-U4/1	2162510
S2.5-U4/2	2162530
S2.5-U5	2162570
S2.5-U6	2162610
S2.5-U6/1	2162650
S2.5-U8	2162690
S6-M10	2163830
S6-M10/1	2163850
S6-M12	2163890
S6-M14	2163930
S6-M16	2163970
S6-M3	2163510
S6-M3.5	2163550
S6-M4	2163590
S6-M5	2163630
S6-M6	2163670
S6-M6/1	2163710
S6-M7	2163750
S6-M8	2163790
S6-M8/1	2163800
S6-P10	2164710
S6-P12	2164750
S6-P14	2164790
S6-PP12	2164830
S6-PP17	2164870
S6-U10	2164370
S6-U10/1	2164390
S6-U12	2164430
S6-U14	2164470
S6-U16	2164510
S6-U3.5	2164170
S6-U4	2164210
S6-U5	2164250
S6-U6	2164290
S6-U8	2164330
SB19	3065352
SB19-TIN	3065353
SB7-SDS-PLUS	3065350
SBCB-1	3065980
SC1	2591261
SC3X	2591264
SC5X	2591266
SC6X	2591239
SC-M1	3065306
SC-PG1	3065305
SDC0PH-KV	3065110
SDC0PZ-KV	3065150
SDC10TX-KV	3065170
SDC10X125-HEX	3065621
SDC15TX-KV	3065172
SDC1PH-KV	3065112
SDC1PH-SL-KV	3065122
SDC1PZ-KV	3065152
SDC1PZ-SL-KV	3065162
SDC2.5X55B	3065061
SDC20TX-KV	3065174
SDC25TX-KV	3065176
SDC2PH-KV	3065114
SDC2PH-SL-KV	3065124
SDC2PZ-KV	3065154
SDC2PZ-SL-KV	3065164
SDC3.5X100-KV	3065067
SDC3.5X55B	3065062
SDC30TX-KV	3065178
SDC3X100-KV	3065065

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Type	Code
SDC3X60-PD	3065060
SDC40TX-KV	3065180
SDC4X100-KV	3065069
SDC5.5X125-KV	3065071
SDC6.5X150-KV	3065073
SDC7X125-HEX	3065615
SDC8X125-HEX	3065617
SDC8X175-KV	3065075
SDC9X125-HEX	3065619
SDCS1PH	3065132
SDCS2.5X55	3065092
SFC200	3065385
SFI10X100X1	2852570
SFI10X15.5X0.8	2850970
SFI10X24X1	2851370
SFI10X32X1	2851570
SFI10X40X1	2851770
SFI10X50X1	2851970
SFI10X63X1	2852170
SFI10X80X1	2852370
SFI2X13X0.5	2850710
SFI2X15.5X0.8	2850910
SFI2X20X1	2851110
SFI2X24X1	2851310
SFI2X32X1	2851510
SFI3X13X0.5	2850720
SFI3X15.5X0.8	2850920
SFI3X20X1	2851120
SFI3X24X1	2851320
SFI3X32X1	2851520
SFI3X9X0.8	2850520
SFI4X13X0.5	2850730
SFI4X15.5X0.8	2850930
SFI4X20X1	2851130
SFI4X24X1	2851330
SFI4X32X1	2851530
SFI4X40X1	2851730
SFI4X50X1	2851930
SFI4X80X1	2852330
SFI5X20X1	2851140
SFI5X24X1	2851340
SFI5X32X1	2851540
SFI5X40X1	2851740
SFI5X50X1	2851940
SFI5X63X1	2852140
SFI6X13X0.5	2850750
SFI6X15.5X0.8	2850950
SFI6X20X1	2851150
SFI6X24X1	2851350
SFI6X32X1	2851550
SFI6X40X1	2851750
SFI6X50X1	2851950
SFI6X63X1	2852150
SFI6X80X1	2852350
SFI6X9X0.8	2850550
SFI8X24X1	2851360
SFI8X32X1	2851560
SFI8X40X1	2851760
SFI8X50X1	2851960
SFI8X63X1	2852160
SFI8X80X1	2852360
SH-B70	2596080
SMA-WE	8420038
SPC200B-KV	3065257
SPC200-KV	3065255
STBC12-300	3065662
SS4.8-3.7	3041670
SS4.8-4.5	3041672
SS9-4.5	3041675
SS9-5	3041677
SS9-6.4	3041679
ST-WE	8420039
T10-L6	2380280
T10-L8	2380285
T10-M10	2380250
T10-M5	2380220
T10-M6	2380230
T10-M8	2380240
T120-L10	2381105
T120-L12	2381110
T120-M10	2381050
T120-M12	2381060
T120-M14	2381070
T120-M16	2381080
T120-M8	2381040
T150-L10	2381305
T150-L12	2381310
T150-M10	2381250
T150-M12	2381260
T150-M14	2381270
T150-M16	2381280
T150-M8	2381240
T16-L10	2380390
T16-L6	2380380
T16-L8	2380385
T16-M10	2380350
T16-M5	2380320
T16-M6	2380330
T16-M8	2380340
T185-L10	2381495
T185-M10	2381450
T185-M12	2381460
T185-M14	2381470
T185-M16	2381480
T240-M10	2381650
T240-M12	2381660
T240-M14	2381670
T240-M16	2381680
T240-M20	2381690
T25-L10	2380470
T25-L6	2380480
T25-L8	2380485
T25-M10	2380450
T25-M12	2380460
T25-M5	2380425
T25-M6	2380430
T25-M8	2380440
T300-M10	2381750
T300-M12	2381760
T300-M14	2381770
T300-M16	2381780
T300-M20	2381790
T35-L10	2380590
T35-L6	2380580
T35-L8	2380585
T35-M10	2380550
T35-M12	2380560
T35-M6	2380530
T35-M8	2380540
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T400-M16	2381880
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T4-M4	2380060
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T4-M6	2380080
T50-L10	2380690
T50-L6	2380680
T50-L8	2380685
T50-M10	2380650
T50-M12	2380660
T50-M6	2380630
T50-M8	2380640
T6-L6	2380180
T6-M4	2380110
T6-M5	2380120
T6-M6	2380130
T6-M8	2380140
T70-L10	2380790
T70-L12	2380795
T70-L8	2380785
T70-M10	2380750
T70-M12	2380760
T70-M6	2380734
T70-M8	2380740
T95-L10	2380905
T95-L12	2380910
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TBS16X20BK	2811110
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TBS16X20BU	2811185
TBS16X20GY	2811210
TBS16X20RE	2811035
TBS16X20WH	2811261
TBS16X20Y/G	2811160
TBS190X5BK	2811124
TBS190X5BR	2811249
TBS190X5BU	2811199
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TBS190X5Y/G	2811174
TBS24X20BK	2811112
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TBS24X20GY	2811212
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TBS24X20WH	2811263
TBS24X20Y/G	2811162
TBS254X5BK	2811126
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TBS254X5Y/G	2811176
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TBS95X10BU	2811195
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TBS95X10RE	2811045
TBS95X10WH	2811271
TBS95X10Y/G	2811170
TC025	2591895
TC04N	2591392
TC050	2597050
TC050Y	2597056
TC055	2591860
TC065-SC	2591870
TC085	2597150
TC096	2597360
TC120	2597250
TCP10	3019220
TCP12	3019225
TCP15	3019230
TCP18	3019235
TCP20	3019240
TCP25	3019250
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TCP40	3019280
TCP45	3019290
TCP5	3019210
TCP50	3019300
TCP55	3019305
TCP60	3019310
TCP65	3019315
TCP70	3019320
TCS1016X25BK	2811342
TCS1016X25TR	2811558
TCS1260X25BK	2811344
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TCS127X100BK	2811326
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TCS127X100GY	2811583
TCS127X100RE	2811462
TCS127X100TR	2811546
TCS127X100WH	2811492
TCS127X100Y/G	2811523
TCS127X100YE	2811364
TCS12X200BK	2811312
TCS12X200TR	2811549
TCS1500X25BK	2811346
TCS1500X25TR	2811560
TCS160X100BK	2811328
TCS160X100TR	2811547
TCS16X200BK	2811314
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TCS16X200BU	2811420
TCS16X200GN	2811390
TCS16X200GY	2811571
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TCS190X100BK	2811330
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TCS190X100RE	2811464
TCS190X100TR	2811548
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TCS190X100Y/G	2811525
TCS190X100YE	2811366
TCS20X200WH	2811481
TCS24X200BK	2811316
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TCS254X50Y/G	2811527
TCS254X50YE	2811368
TCS320X50BK	2811334
TCS320X50TR	2811554
TCS32X200BK	2811318
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TCS32X200RE	2811454
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TCS381X50TR	2811555
TCS381X50Y/G	2811511
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TCS48X100YE	2811358
TCS508X25BK	2811338
TCS508X25BR	2811622
TCS508X25BU	2811440
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TCS508X25TR	2811556
TCS508X25Y/G	2811513
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TCS64X100BU	2811428
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TCS64X100GY	2811579
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TCS762X25BK	2811340
TCS762X25TR	2811557
TCS95X100BK	2811324
TCS95X100BR	2811612
TCS95X100BU	2811430
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TCS95X100GY	2811581

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TD-10X10-M10	2685011
TD-11	2685005
TD-120X20-M20	2685013
TD-14X14-M14	2685012
TD-14X14-M14/1	2685004
TD-16	2685002
TD-19	2685008
TD-20	2685001
TD-20X20-M20	2685014
TD-20X20-M20-C	2685019
TD-27	2685007
TD-28.5	2685009
TD-9	2685003
TD-M16C	2685010
TF300-Q38F	2592862
TF300-Q38FM	2592863
TF600-Q38FM	2592981
TGD-10X10-M9	2685018
TGD-13.5X13.5M13	2685017
TGM38	3016155
TGM48	3016157
TGM513	3016165
TGM58	3016159
TGM613	3016167
TGM713	3016169
TGM817	3016171
TN120SE	2590280
TN60C	2590215
TN70	2590230
TN70SE	2590260
TNE-A120	2590117
TNE-A50	2590116
TNE-D120	2590112
TNE-D50	2590111
TNE-T120	2590119
TNE-T50	2590118
TNE-H120	2590114
TNE-H50	2590113
TNN120	2590290
TNN70	2590240
TR160-KV	3065330
TR200-KV	3065332
TRCB1	3065990
TRCB2	3065991
TRD-9.4C	2685015
TRD-M11C	2685016
TRS-B70	2593280
TSS127BK	2811660
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TSS127Y/G	2811928
TSS127YE	2811810
TSS12BK	2811646
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TSS12GY	2811857
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TSS24Y/G	2811918
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TSS254BK	2811664
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TSS32WH	2811712
TSS32Y/G	2811920
TSS32YE	2811802
TSS380BK	2811666
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TSS380BU	2811756
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TSS380GY	2811877
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TSS380Y/G	2811934
TSS380YE	2811816
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TSS64GY	2811867
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TSS64Y/G	2811924
TSS64YE	2811806
TSS95BK	2811658
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TSS95GN	2811839
TSS95GY	2811869
TSS95RE	2811688
TSS95TR	2811778
TSS95WH	2811718
TSS95Y/G	2811926
TSS95YE	2811808
RFC200	3065380
TWC10.50-14	3065670
TWC20.100-38	3065671
TWC40.200-12	3065672
UKC4	3065300
UN1-M10	2406690
UN1-M3	2406510
UN1-M4	2406550
UN1-M5	2406590
UN1-M6	2406620
UN1-M8	2406650
UP130-120	2616520
UP130-150	2616530
UP130-185	2616550
UP130-240	2616560
UP130-50	2616470
UP130-70	2616490
UP130-95	2616500
UPC180-KV	3065250
UPC200-KV	3065252
USB-CABLE	6006309
VAL-04	2593310
VAL-096	2593669
VAL-1000	2593426
VAL-130	2610450
VAL-130-U	2610451
VAL-160	2593405
VAL-22-TC120	2593391
VAL-230-630	2680085
VAL-231	2593384
VAL-450	2593424
VAL-520	2593410
VAL-600	2593425
VAL-75	2600110
VAL-B68RC3	2593412
VAL-B-TC950	2593704
VAL-CP096	2593671
VAL-CP096-W	2593674
VAL-ECW-H3D	2593421
VAL-FC470	2593710
VAL-GPT	3065010
VAL-GPTA-N	3065013
VAL-GPTP	3064980
VAL-GPTS	3065015
VAL-M/KIT1	2591597
VAL-M/KIT2	2591598
VAL-M/L1	2591607
VAL-M/M1	2591606
VAL-M/X1	2591608
VAL-M/X2	2591609
VAL-M1T	2591602
VAL-M2T	2591603
VALMAT-230-630	2680086
VALMAT-520	2593411
VAL-MAT-W	2670076
VAL-P1	2590595
VAL-P10	2590620
VAL-P18	2590628
VAL-P21	2874156
VAL-P22	2874157
VAL-P26	2590635
VAL-P28	2590639
VAL-P29	2590641
VAL-P3	2590610
VAL-P30	2590642
VAL-P38	2590650
VAL-P39	2590651
VAL-P4	2590612
VAL-P40	2590652
VAL-P44	2590654
VAL-P48	2590655
VAL-P51	2590658
VAL-P54	2590661
VAL-P56	2590665
VAL-P57	2590663
VAL-P59	2590667
VALSTAR-N0	2590772
VALSTAR-N1	2590775
VALSTAR-N2	2590776
VALSTAR-N3	2590777
VALSTAR-N4	2590778
VALSTAR-N5	2590919
VALSTAR-N6	2590918
VALSTAR-N8	2590779
VALSTAR-N11	2590780
VALSTAR-R3/IDT	2590593
VALSTAR-ZETA	2844005
VAL-TC055	2593325
VAL-TC065-SC	2593324
VAL-TC085	2593323
VAL-TC120	2593322
VP-M2	2048010
VP-M3	2048030
VP-M3.5	2048070
VP-M4	2048150
VP-M5	2048190
VP-M6	2048210
VP-P10	2049210
VP-PP12/19	2049370
VP-U3	2048630
VP-U3.5	2048670
VP-U4	2048710
WL03-M	2469780
WL06-M	2469785
WL1-M	2469790
WLM-WE	8420050
WPC250-KV	3065265
WSC180-KV	3065338
WT2-3D	2636970
Z10-1	2845030
Z16-1	2845040
Z16-12	2844156
Z16-12D	2844157
Z16-3	2844115
Z16-3D	2844116
Z16-4	2844130
Z16-4D	2844131
Z16-5N	2844122
Z16-5ND	2844123
Z16-8	2844140
Z16-8D	2844141
Z2.5-1	2845010
Z25-1	2845050
Z25-DP7-100	2845180
Z35-1	2845060
Z35-26D	2844216
Z35-3	2844205
Z35-3D	2844206
Z35-4	2844201
Z35-4D	2844202
Z35-6	2844210
Z35-6D	2844211
Z35-DP14-125	2845210
Z35-DP14B-125	2845212
Z35T-11	2844220
Z35T-11D	2844221
Z50-10D	2844230
Z50-DP12-160	2845220
Z6-1	2845020
Z6-10	2844106
Z6-10D	2844107
Z6-3	2844080
Z6-3D	2844081
Z6-5	2844100
Z6-5D	2844101
Z6-6	2844108
Z6-6D	2844109
ZKE2	2590710
ZKE610N	2590722
ZKE616N	2590724
ZP2	2590760
ZS-B10	2842170
ZS-B16	2842185
ZS-B6	2842156
ZS-T10	2842175
ZS-T16	2842190
ZS-T6	2842161
ZS-U10	2842165
ZS-U16	2842180
ZS-U6	2842151

CEMBRE

Comparison of AWG, MCM and Metric conductor cross sections

CONDUCTORS SECTIONS					
Conversion Table AWG, MCM / mm²					
[AWG]	Actual conductor csa mm²	Comparable metric csa mm²	[MCM]	Actual conductor csa mm²	Comparable metric csa mm²
27	0,10		250	127	120
26	0,13	0,14	300	152	150
25	0,16	-	350	177	185
24	0,21	0,2	400	203	-
23	0,26	0,25	500	253	240
22	0,33	0,34	600	304	300
21	0,41	-	700	355	-
20	0,52	0,5	800	405	400
19	0,65	-	900	456	-
18	0,82	0,75	1000	507	500
17	1,04	1	1250	633	625
16	1,31	-	1500	760	800
15	1,65	1,5	1750	887	-
14	2,08	-	2000	1010	1000
13	2,63	2,5			
12	3,31	-			
11	4,15	4			
10	5,27	6			
9	6,62	-			
8	8,35	-			
7	10,6	10			
6	13,3	-			
5	16,8	16			
4	21,2	-			
3	26,7	25			
2	33,6	35			
1	42,4	-			
1/0	53,4	50			
2/0	67,5	70			
3/0	85,0	95			
4/0	107,2	120			

MAXIMUM DIAMETERS OF CIRCULAR COPPER CONDUCTORS: SOLID, NON COMPACTED STRANDED AND FLEXIBLE			
Cross sectional area [mm²]	Conductors in cables for fixed installations		Flexible conductors (Classes 5 and 6) Maximum diameter [mm]
	Solid (Class 1) Maximum diameter [mm]	Stranded (Class 2) Maximum diameter [mm]	
0,5	0,9	1,1	1,1
0,75	1	1,2	1,3
1	1,2	1,4	1,5
1,5	1,5	1,7	1,8
2,5	1,9	2,2	2,4
4	2,4	2,7	3
6	2,9	3,3	3,9
10	3,7	4,2	5,1
16	4,6	5,3	6,3
25 [a]	5,7	6,6	7,8
35 [a]	6,7	7,9	9,2
50 [a]	7,8	9,1	11
70 [a]	9,4	11	13,1
95 [a]	11	12,9	15,1
120 [a]	12,4	14,5	17
150 [a]	13,8	16,2	19
185	15,4	18	21
240	17,6	20,6	24
300	19,8	23,1	27
400	22,2	26,1	31
500	-	29,2	35
630	-	33,2	39
800	-	37,6	-
1000	-	42,2	-

NOTE: The values given for flexible conductors represent both class 5 and class 6 conductors.

[a] Solid copper conductor shaving cross-sectional areas of 25 mm² and above are for particular types of cable, e.g. mineral insulated, and not for general purposes.

MINIMUM AND MAXIMUM DIAMETERS OF STRANDED COMPACTED CIRCULAR COPPER, ALUMINIUM AND ALUMINIUM ALLOY CONDUCTORS		
Cross-sectional area [mm²]	Stranded compacted circular conductors (Class 2)	
	Minimum diameter [mm]	Maximum diameter [mm]
10	3,6	4,0
16	4,6	5,2
25	5,6	6,5
35	6,6	7,5
50	7,7	8,6
70	9,3	10,2
95	11,0	12,0
120	12,3	13,5
150	13,7	15,0
185	15,3	16,8
240	17,6	19,2
300	19,7	21,6
400	22,3	24,6
500	25,3	27,6
630	28,7	32,5

NOTES: - The dimensional limits of Aluminium conductors with cross-sectional areas above 630 mm² are not given as the compaction technology is not generally estabilished.

- The values are given for compacted copper conductors in the size range 1,5 mm² to 6 mm².

MINIMUM AND MAXIMUM DIAMETERS OF CIRCULAR ALUMINIUM CONDUCTORS		
Cross-sectional area [mm²]	Solid conductors (Class 1)	
	Minimum diameter [mm]	Maximum diameter [mm]
10	3,4	3,7
16	4,1	4,6
25	5,2	5,7
35	6,1	6,7
50	7,2	7,8
70	8,7	9,4
95	10,3	11,0
120	11,6	12,4
150	12,9	13,8
185	14,5	15,4
240	16,7	17,6
300	18,8	19,8
400	21,2	22,2
500	24,0	25,1
630	27,3	28,4
800	30,9	32,1
1000	34,8	36,0
1200	37,8	39,0

IEC 60228 : 2004 - 11 conductor tables

CLASS 1: SOLID CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES			
Nominal cross-sectional [mm²]	Maximum resistance of conductor at 20 °C		
	Circular, annealed Copper conductors		Aluminium and Aluminium alloy conductors, circular or shaped c [ohm/km]
	Plain [ohm/km]	Metal [ohm/km]	
0,5	36	36,7	-
0,75	24,5	24,8	-
1	18,1	18,2	-
1,5	12,1	12,2	-
2,5	7,41	7,56	-
4	4,61	4,70	-
6	3,08	3,11	-
10	1,83	1,84	3,08 a
16	1,15	1,16	1,91 [a]
25	0,727 [b]	-	1,20 [a]
35	0,524 [b]	-	0,868 [a]
50	0,387 [b]	-	0,641
70	0,268 [b]	-	0,443
95	0,193 [b]	-	0,320 d
120	0,153 [b]	-	0,253 d
150	0,124 [b]	-	0,206 d
185	0,101 [b]	-	0,164 d
240	0,0775 [b]	-	0,125 d
300	0,0620 b	-	0,100 d
400	0,0465 b	-	0,0778
500	-	-	0,0605
630	-	-	0,0469
800	-	-	0,0367
1000	-	-	0,0291
1200	-	-	0,0247

[a] *Aluminium conductors 10 mm² to 35 mm² circular only*

[b] *Solid Copper conductors having nominal cross-sectional area of 25 mm² and above are for particular types of cable, e.g. mineral insulated, and not for general purposes.*

[c] *For solid Aluminium alloy conductors, having the same nominal cross-sectional area as an Aluminium conductor, the resistance value given in the table should be multiplied by a factor of 1,162 unless otherwise agreed between the manufacturer and the purchaser.*

[d] *For single core cables, four sectoral shaped conductors may be assembled into a single circular conductor. The maximum resistance of the assembled conductor shall be 25% of that of the individual component conductors.*

CLASS 2: STRANDED CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES									
Nominal cross-sectional area [mm²]	Minimum number of wires in the conductor						Maximum resistance of conductor at 20 °C		
	Circular		Circular compacted		Shaped		Annealed copper conductor		Aluminium or aluminium alloy conductor [c] [ohm/km]
	Cu	Al	Cu	Al	Cu	Al	Plain wires [ohm/km]	Metal-coated wires [ohm/km]	
0,5	7	-	-	-	-	-	36,0	36,7	-
0,75	7	-	-	-	-	-	24,5	24,8	-
1,0	7	-	-	-	-	-	18,1	18,2	-
1,5	7	-	6	-	-	-	12,1	12,2	-
2,5	7	-	6	-	-	-	7,41	7,56	-
4	7	-	6	-	-	-	4,61	4,70	-
6	7	-	6	-	-	-	3,08	3,11	-
10	7	7	6	6	-	-	1,83	1,84	3,08
16	7	7	6	6	-	-	1,15	1,16	1,91
25	7	7	6	6	6	6	0,727	0,734	1,20
35	7	7	6	6	6	6	0,524	0,529	0,868
50	19	19	6	6	6	6	0,387	0,391	0,641
70	19	19	12	12	12	12	0,268	0,270	0,443
95	19	19	15	15	15	15	0,193	0,195	0,320
120	37	37	18	15	18	15	0,153	0,154	0,253
150	37	37	18	15	18	15	0,124	0,126	0,206
185	37	37	30	30	30	30	0,0991	0,100	0,164
240	61	61	34	30	34	30	0,0754	0,0762	0,125
300	61	61	34	30	34	30	0,0601	0,0607	0,100
400	61	61	53	53	53	53	0,0470	0,0475	0,0778
500	61	61	53	53	53	53	0,0366	0,0369	0,0605
630	91	91	53	53	53	53	0,0283	0,0286	0,0469
800	91	91	53	53	-	-	0,0221	0,0224	0,0367
1000	91	91	53	53	-	-	0,0176	0,0177	0,0291
1200	b						0,0151	0,0151	0,0247
1400 a	b						0,0129	0,0129	0,0212
1600	b						0,0113	0,0113	0,0186
1800 a	b						0,0101	0,0101	0,0165
2000	b						0,0090	0,0090	0,0149
2500	b						0,0072	0,0072	0,0127

[a] *Non-preferred sizes. Other non-preferred sizes are recognized for some specialized applications but are not within the scope of this standard.*

[b] *The minimum number of wires for these sizes is not specified. These sizes may be constructed from 4, 5 or 6 equal segments (Milliken).*

[c] *For stranded Aluminium alloy conductors having the same nominal cross-sectional area as an Aluminium conductor the resistance value should be agreed between the manufacturer and the purchaser.*

IEC 60228 : 2004 - 11 conductor tables

CLASS 5:			
FLEXIBLE COPPER CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES			
Nominal cross-sectional [mm²]	Maximum diameter of wires in conductor [mm]	Maximum resistance of conductor at 20 °C	
		Plain wires [ohm/km]	Metal-coated wires [ohm/km]
0,5	0,21	39	40,1
0,75	0,21	26	26,7
1	0,21	19,5	20
1,5	0,26	13,3	13,7
2,5	0,26	7,98	8,21
4	0,31	4,95	5,09
6	0,31	3,3	3,39
10	0,41	1,91	1,95
16	0,41	1,21	1,24
25	0,41	0,78	0,795
35	0,41	0,554	0,565
50	0,41	0,386	0,393
70	0,51	0,272	0,277
95	0,51	0,206	0,21
120	0,51	0,161	0,164
150	0,51	0,129	0,132
185	0,51	0,106	0,108
240	0,51	0,080	0,081
300	0,51	0,064	0,065
400	0,51	0,048	0,049
500	0,61	0,038	0,039
630	0,61	0,028	0,029

CLASS 6:			
FLEXIBLE COPPER CONDUCTORS FOR SINGLE-CORE AND MULTI-CORE CABLES			
Nominal cross-sectional [mm²]	Maximum diameter of wires in conductor [mm]	Maximum resistance of conductor at 20 °C	
		Plain wires [ohm/km]	Metal-coated wires [ohm/km]
0,5	0,16	39	40,1
0,75	0,16	26	26,7
1	0,16	19,5	20
1,5	0,16	13,3	13,7
2,5	0,16	7,98	8,21
4	0,16	4,95	5,09
6	0,21	3,3	3,39
10	0,21	1,91	1,95
16	0,21	1,21	1,24
25	0,21	0,78	0,795
35	0,21	0,554	0,565
50	0,31	0,386	0,393
70	0,31	0,272	0,277
95	0,31	0,206	0,21
120	0,31	0,161	0,164
150	0,31	0,129	0,132
185	0,41	0,106	0,108
240	0,41	0,080	0,081
300	0,41	0,064	0,065

System of denomination of harmonised cables according to CENELEC HD 361

REFERENCE TO THE STANDARDS

- **H** Cable conforming to harmonised standards
- **A** Recognised national type of cable
- **N** Other type of national cable

RATED VOLTAGE

- **00** Less than 100 / 100 V
- **01** Above 100 / 100 V and less than 300 / 300 V
- **03** 300 / 300 V
- **05** 300 / 500 V
- **07** 450 / 750 V
- **1** 0,6 / 1 kV

INSULATION AND SHEATH MATERIAL

- **B** Ethylenpropylene rubber for working temperature of 60° C
- **N** Polychloroprene
- **N2** Polychloroprene for welding cables
- **Q** Polyurethane
- **R** Rubber
- **V** Common-quality PVC
- **V2** PVC for working temperatures of 90° C
- **V3** PVC for low temperature cables
- **V4** Reticulate PVC
- **V5** Oil-resistant PVC
- **Z** Polyolefin mixture

SCREENS

- **C** Concentric Copper core
- **C4** Copper braid screen on multiple cores
- **C5** Copper braid screen on single cores
- **C7** Screen made of Copper straps or ribbons

ARMOURS

- **Z2** Round Steel strand armour
- **Z3** Steel strap armour
- **Z4** Steel ribbon armour
- **Z5** Steel strand braid

CONSTRUCTIVE FORM OF THE CABLE

- **H** Flat divisible cable with or without sheath
- **H2** Flat indivisible cable
- **H3** Flat cable with cores separated by a slat
- **H6** Flat cable with three or more cores
- **H7** Cable with double-layered insulation
- **H8** Extendable cord

CONDUCTOR FLEXIBILITY DEGREE

- **D** Flexible core for weldings cables
- **E** Very flexible core for welding cables
- **F** Flexible core for moving connections
- **H** Very flexible core for moving connections
- **K** Flexible core for fixed laying
- **R** Rigid round cord
- **U** Round rigid single strand

UL and VDE marking of cable glands

MAXIblock® spiralblock®

Type (°)	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	EN 62444 [mm]	IMPACT CATEGORY (*)	MARKING
1900.M12	M12x1,5	3,5-7	4,5	0.18	3,5-7	1	**USR-CNR / VDE**
1900.M16	M16x1,5	5-10	7	0.28	7-10	1	**USR-CNR / VDE**
1900.M20	M20x1,5	7-13	13	0.51	8-13	3	**USL-CNL / VDE**
1900.M25	M25x1,5	10-17	17	0.67	10-17	3	**USL-CNL / VDE**
1900.M32	M32x1,5	13-21	15-21	0.60-0.83	15-21	3	**USL-CNL / VDE**
1900.M40	M40x1,5	19-28	21-28	0.83-1.10	19-28	3	**USL-CNL / VDE**
1900.M50	M50x1,5	27-35	27-34	1.06-1.34	27-35	3	**USL-CNL / VDE**
1900.M63	M63x1,5	34-45	35	1.38	34-45	3	**USL-CNL / VDE**
1910.M12	M12x1,5	2-5	3-5	0.12-0.20	2-5	1	**USR-CNR / VDE**
1910.M16	M16x1,5	3-7	5-7	0.20-0.28	5-7	1	**USR-CNR / VDE**
1910.M20	M20x1,5	5-10	5-10	0.20-0.40	6-10	3	**USR-CNR / VDE**
1910.M25	M25x1,5	7-13	6-13	0.24-0.51	7-13	3	**USR-CNR / VDE**
1910.M32	M32x1,5	8-14	7-14	0.28-0.55	8-14	3	**USR-CNR / VDE**
1910.M40	M40x1,5	15-23	17-23	0.67-0.91	15-23	3	**USL-CNL / VDE**
1910.M50	M50x1,5	20-29	20-29	0.79-1.14	21-29	3	**USL-CNL / VDE**
1910.M63	M63x1,5	27-39	29-35	1.14-1.38	28-39	3	**USL-CNL / VDE**
1901.M12	M12x1,5	3,5-7	4,5	0.18	3,5-7	1	**USR-CNR / VDE**
1901.M16	M16x1,5	5-10	7	0.28	7-10	1	**USR-CNR / VDE**
1901.M20	M20x1,5	7-13	13	0.51	8-13	3	**USL-CNL / VDE**
1901.M25	M25x1,5	10-17	17	0.67	10-17	3	**USL-CNL / VDE**
1901.M32	M32x1,5	13-21	15-21	0.60-0.83	15-21	3	**USL-CNL / VDE**
1901.M40	M40x1,5	19-28	21-28	0.83-1.10	19-28	3	**USL-CNL / VDE**
1901.M50	M50x1,5	27-35	27-34	1.06-1.34	27-35	3	**USL-CNL / VDE**
1901.M63	M63x1,5	34-45	35	1.38	34-45	3	**USL-CNL / VDE**
1940.M20	M20x1,5	10-14	10-14	0.40-0.55	10-14	2	**USR-CNR / VDE**
1940.M25	M25x1,5	13-18	13-18	0.51-0.71	13-18	2	**USL-CNL / VDE**
1940.M40	M40x1,5	26-34	26-34	1.02-1.34	26-34	3	**USL-CNL / VDE**
1940E.M40	M40x1,5	22-32	23-32	0.91-1.26	22-32	3	**USL-CNL / VDE**
1500.M12	M12x1,5	3,5-7	4,5	0.18	3,5-7	1	**USR-CNR / VDE**
1500.M16	M16x1,5	5-10	7	0.28	7-10	1	**USR-CNR / VDE**
1500.M20	M20x1,5	7-13	13	0.51	8-13	3	**USL-CNL / VDE**
1500.M25	M25x1,5	10-17	17	0.67	10-17	3	**USL-CNL / VDE**
1500.M32	M32x1,5	13-21	15-21	0.60-0.83	15-21	3	**USL-CNL / VDE**

MAXIbrass®

Type	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	EN 62444 [mm]	IMPACT CATEGORY (*)	MARKING
2900.M12N	M12x1,5	3-7	3-7	0.12-0.28	3-7	5	**USR-CNR / VDE**
2900.M16N	M16x1,5	4,5-10	6-10	0.24-0.39	4,5-10	6	**USR-CNR / VDE**
2900.M20N	M20x1,5	7-13	8-13	0.31-0.51	7-13	6	**USL-CNL / VDE**
2900.M25N	M25x1,5	10-17	13-17	0.51-0.67	11-17	6	**USL-CNL / VDE**
2900.M32N	M32x1,5	11-21	13-21	0.51-0.83	13-21	6	**USL-CNL / VDE**
2900.M40N	M40x1,5	19-28	21-28	0.83-1.10	19-28	6	**USL-CNL / VDE**
2900.M50N	M50x1,5	26-35	27-35	1.06-1.38	26-35	6	**USL-CNL / VDE**
2900.M63N	M63x1,5	34-45	34-45	1.33-1.77	34-45	6	**USL-CNL / VDE**
2910.M12N	M12x1,5	1-5	2-5	0.08-0.20	2-5	5	**USR-CNR / VDE**
2910.M16N	M16x1,5	2,5-7	3,5-7	0.14-0.28	4-7	6	**USR-CNR / VDE**
2910.M20N	M20x1,5	5-10	5-10	0.20-0.39	5,5-10	6	**USR-CNR / VDE**
2910.M25N	M25x1,5	6-13	8-13	0.31-0.51	6-13	6	**USR-CNR / VDE**
2910.M32N	M32x1,5	7-14	7-14	0.28-0.55	9-14	6	**USR-CNR / VDE**
2910.M40N	M40x1,5	13-23	15-23	0.59-0.90	17-23	6	**USL-CNL / VDE**
2910.M50N	M50x1,5	20-29	20-29	0.79-1.14	25-29	6	**USL-CNL / VDE**
2910.M63N	M63x1,5	27-39	28-39	1.10-1.54	31-39	6	**USL-CNL / VDE**
2901.M12N	M12x1,5	3-7	3-7	0.12-0.28	3-7	5	**USR-CNR / VDE**
2901.M16N	M16x1,5	4,5-10	6 -10	0.24-0.39	4,5-10	6	**USR-CNR / VDE**
2901.M20N	M20x1,5	7-13	8-13	0.31-0.51	7-13	6	**USL-CNL / VDE**
2901.M25N	M25x1,5	10-17	13-17	0.51-0.67	11-17	6	**USL-CNL / VDE**
2901.M32N	M32x1,5	11-21	13-21	0.51-0.83	13-21	6	**USL-CNL / VDE**
2901.M40N	M40x1,5	19-28	21-28	0.83-1.10	19-28	6	**USL-CNL / VDE**
2901.M50N	M50x1,5	26-35	27-35	1.06-1.38	26-35	6	**USL-CNL / VDE**
2911.M12N	M12x1,5	1-5	2-5	0.08-0.20	2-5	5	**USR-CNR / VDE**
2911.M16N	M16x1,5	2,5-7	3,5-7	0.14-0.28	4-7	6	**USR-CNR / VDE**
2911.M20N	M20x1,5	5-10	5-10	0.20-0.39	5,5-10	6	**USR-CNR / VDE**
2911.M25N	M25x1,5	6-13	8-13	0.31-0.51	6-13	6	**USR-CNR / VDE**
2911.M32N	M32x1,5	7-14	7-14	0.28-0.55	9-14	6	**USR-CNR / VDE**
2911.M40N	M40x1,5	13-23	15-23	0.59-0.90	17-23	6	**USL-CNL / VDE**
2911.M50N	M50x1,5	20-29	20-29	0.79-1.14	25-29	6	**USL-CNL / VDE**
2940.M12N	M12x1,5	5-8	5-8	0.20-0.31	5-8	5	**USR-CNR / VDE**
2940.M16N	M16x1,5	7-12	8-12	0.31-0.47	8-12	6	**USR-CNR / VDE**
2940.M20N	M20x1,5	10-16	12-16	0.47-0.63	12-16	6	**USR-CNR / VDE**
2940.M25N	M25x1,5	13-21	14-21	0.55-0.83	13-21	6	**USL-CNL / VDE**
2940.M32N	M32x1,5	18-25	21-25	0.83-0.98	18-25	6	**USL-CNL / VDE**
2940.M40N	M40x1,5	25-32	25-32	0.98-1.26	25-32	6	**USL-CNL / VDE**
2940.M50N	M50x1,5	30-38	30-37	1.18-1.46	30-38	6	**USL-CNL / VDE**
2940E.M50N	M50x1,5	35-45	35-41	1.38-1.61	35-45	6	**USL-CNL / VDE**

(°) Add to Ref: N for Black, G for Dark Grey
(*) EN 62444 § 9.5

VDE: Licence nos 40008472, 40008474, 40008475 and 40008476
USL-CNL: UL LISTING file no E220310; control no 48SB valid in USA & Canada
USR-CNR: UL RECOGNITION file no E220310 valid in USA & Canada (with reduced tightening force)

MAXIblock® spiralblock®

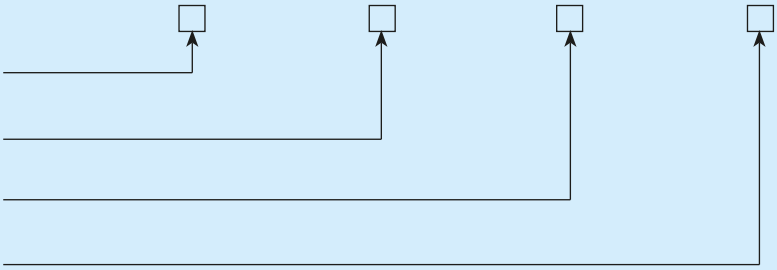
Type (°)	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	MARKING
1900.07	Pg 7	3,5-7	4.5-6.5	0.18-0.25	**USR-CNR**
1900.09	Pg 9	5-8	6-8	0.24-0.31	**USR-CNR**
1900.11	Pg 11	5-10	6.5-9.5	0.26-0.37	**USR-CNR**
1900.13	Pg 13,5	7-12	8-11.5	0.31-0.45	**USL-CNL**
1900.16	Pg 16	10-14	10.5-14	0.41-0.55	**USL-CNL**
1900.21	Pg 21	13-18	13-18	0.51-0.71	**USL-CNL**
1900.29	Pg 29	18-25	22-25	0.87-0.98	**USL-CNL**
1900.36	Pg 36	20-32	21.5-32	0.85-1.26	**USR-CNR**
1900.42	Pg 42	28-38	32-38	1.26-1.49	**USL-CNL**
1900.48	Pg 48	34-45	35	1.38	**USL-CNL**
1910.07	Pg 7	2-5	3-5	0.12-0.20	**USR-CNR**
1910.11	Pg 11	4-7	4-7	0.16-0.28	**USR-CNR**
1910.13	Pg 13,5	5-10	10	0.39	**USR-CNR**
1910.21	Pg 21	9-15	10-14	0.39-0.55	**USR-CNR**
1910.36	Pg 36	18-26	18-26	0.71-1.02	**USR-CNR**
1910.42	Pg 42	25-31	25-31	0.98-1.22	**USL-CNL**
1901.07	Pg 7	3.5-7	6.5	0.26	**USR-CNR**
1901.09	Pg 9	5-8	6-8	0.24-0.31	**USR-CNR**
1901.11	Pg 11	5-10	6.5-9.5	0.26-0.37	**USR-CNR**
1901.13	Pg 13,5	7-12	8-11.5	0.31-0.45	**USL-CNL**
1901.16	Pg 16	10-14	10.5-14	0.41-0.55	**USL-CNL**
1901.21	Pg 21	13-18	13-18	0.51-0.71	**USL-CNL**
1901.29	Pg 29	18-25	22-25	0.87-0.98	**USL-CNL**
1901.36	Pg 36	20-32	21.5-32	0.85-1.26	**USR-CNR**
1901.42	Pg 42	28-38	32-38	1.26-1.49	**USL-CNL**
1901.48	Pg 48	34-45	35	1.38	**USL-CNL**
1500.07	Pg 7	3,5-7	4.5-6.5	0.18-0.25	**USR-CNR**
1500.09	Pg 9	5-8	6-8	0.24-0.31	**USR-CNR**
1500.11	Pg 11	5-10	6.5-9.5	0.26-0.37	**USR-CNR**
1500.13	Pg 13,5	7-12	8-11.5	0.31-0.45	**USL-CNL**
1500.16	Pg 16	10-14	10.5-14	0.41-0.55	**USL-CNL**
1500.21	Pg 21	13-18	13-18	0.51-0.71	**USL-CNL**
1900.14	G1/4"	3-6,5	4.5-6.5	0.18-0.25	**USR-CNR**
1900.38	G3/8"	4-8	6-8	0.24-0.31	**USR-CNR**
1900.12	G1/2"	7-12	8-11.5	0.31-0.45	**USL-CNL**
1900.34	G3/4"	13-18	13-18	0.51-0.71	**USL-CNL**
1500.14	G1/4"	3-6,5	4.5-6.5	0.18-0.25	**USR-CNR**
1500.38	G3/8"	4-8	6-8	0.24-0.31	**USR-CNR**
1500.12	G1/2"	7-12	8-11.5	0.31-0.45	**USL-CNL**
1500.34	G3/4"	13-18	13-18	0.51-0.71	**USL-CNL**

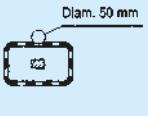
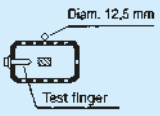
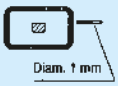
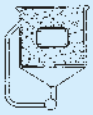
MAXIbrass®

Type	Thread	COMPRESSION RANGE Ø (min-max) Nominal [mm]	UL 514B [mm]	UL 514B [inches]	MARKING
2900.07N	Pg 7	3-7	3-7	0.12-0.28	**USR-CNR**
2900.09N	Pg 9	4-8	4-8	0.16-0.31	**USR-CNR**
2900.11N	Pg 11	4,5-10	6-10	0.24-0.39	**USR-CNR**
2900.13N	Pg 13,5	5-12	10-12	0.39-0.47	**USL-CNL**
2900.16N	Pg 16	7-13	10-13	0.39-0.51	**USL-CNL**
2900.21N	Pg 21	10-17	12-17	0.47-0.67	**USL-CNL**
2900.29N	Pg 29	17-25	18-25	0.71-0.98	**USL-CNL**
2900.36N	Pg 36	20-32	23-32	0.91-1.26	**USL-CNL**
2900.42N	Pg 42	28-38	28-35	1.10-1.38	**USL-CNL**
2900.48N	Pg 48	34-45	34-45	1.33-1.77	**USL-CNL**
2910.07N	Pg 7	1-5	2-5	0.08-0.20	**USR-CNR**
2910.09N	Pg 9	2-6	3-6	0.12-0.24	**USR-CNR**
2910.11N	Pg 11	2,5-7	3,5-7	0.14-0.28	**USR-CNR**
2910.13N	Pg13,5	4-10	5,5-10	0.22-0.39	**USR-CNR**
2910.16N	Pg 16	5-10	6-10	0.24-0.39	**USR-CNR**
2910.21N	Pg 21	6-13	7-13	0.28-0.51	**USR-CNR**
2910.29N	Pg 29	11-20	12-20	0.47-0.79	**USR-CNR**
2910.36N	Pg 36	18-26	19-26	0.75-1.02	**USL-CNL**
2910.42N	Pg 42	24-31	24-31	0.94-1.22	**USL-CNL**
2910.48N	Pg 48	27-39	31-39	1.22-1.54	**USL-CNL**
2901.07N	Pg 7	3-7	3-7	0.12-0.28	**USR-CNR**
2901.09N	Pg 9	4-8	4-8	0.16-0.31	**USR-CNR**
2901.11N	Pg 11	4,5-10	6-10	0.24-0.39	**USR-CNR**
2901.13N	Pg13,5	5-12	10-12	0.39-0.47	**USL-CNL**
2901.16N	Pg 16	7-13	10-13	0.39-0.51	**USL-CNL**
2901.21N	Pg 21	10-17	12-17	0.47-0.67	**USL-CNL**
2901.29N	Pg 29	17-25	18-25	0.71-0.98	**USL-CNL**
2901.36N	Pg 36	20-32	23-32	0.91-1.26	**USL-CNL**
2901.42N	Pg 42	28-38	28-35	1.10-1.38	**USL-CNL**
2911.07N	Pg 7	1-5	2-5	0.08-0.20	**USR-CNR**
2911.09N	Pg 9	2-6	3-8	0.12-0.31	**USR-CNR**
2911.11N	Pg 11	2,5-7	3,5-7	0.14-0.28	**USR-CNR**
2911.13N	Pg13,5	4-10	5,5-10	0.22-0.39	**USR-CNR**
2911.16N	Pg 16	5-10	6-10	0.24-0.39	**USR-CNR**
2911.21N	Pg 21	6-13	7-13	0.28-0.51	**USR-CNR**
2911.29N	Pg29	11-20	12-20	0.47-0.79	**USR-CNR**
2911.36N	Pg36	18-26	19-26	0.75-1.02	**USL-CNL**
2911.42N	Pg42	24-31	24-31	0.94-1.22	**USL-CNL**

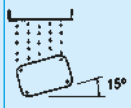
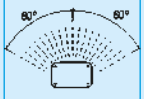
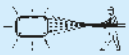
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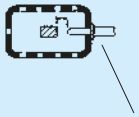
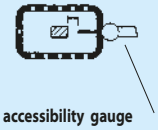
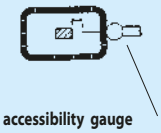
Ingress protection (IP) rating according to EN 60529 - CEI 70-1

IP CODE	
The first digit (0-6 or X letter): Protection against ingress of solid matter	
Second digit (0-8 or X letter): Protection against ingress of liquids	
(A, B, C, D) for future use. Restricted entry to dangerous parts:	
(H,M,S,W) for future use. Specific criteria:	

1st CHARACTERISTIC NUMBER:							
PROTECTION AGAINST INGRESS OF SOLID MATTER							
PROTECTION	**0**	**1**	**2**	**3**	**4**	**5**	**6**
Protection against ingress of solid matter caused by		solid bodies measuring over 50 mm	solid bodies measuring over 12,5 mm	solid bodies measuring over 2,5 mm	solid bodies measuring over 1 mm	powder in harmful quantities	Powder (completely protected)
Test method		 Accessibility gauge ø 50 mm	 Accessibility gauge ø 12,5 mm	 Accessibility gauge ø 2,5 mm	 Accessibility gauge ø 1 mm	 talcum powder	 talcum powder

Ingress protection (IP) rating according to EN 60529 - CEI 70-1

2nd CHARACTERISTIC NUMBER:									
PROTECTION AGAINST INGRESS OF LIQUIDS									
PROTECTION	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Protection against ingress of liquids caused by		Drops of water falling vertically	Vertical drops of water with inclination of casing up to 15°	Rain	Sprays of water	Jets of water	Powerful jets of water	Temporary Immersion	Permanent Immersion
Test method									Agreement between manufacturer and user but more severe than 7

1st ADDITIONAL LETTER:				
RESTRICTED ENTRY TO DANGEROUS PARTS				
RESTRICTED ENTRY	**A**	**B**	**C**	**D**
Restricted entry to dangerous parts caused by	back of hand	finger	tool	wire
Test method		 articulated test finger	 accessibility gauge Ø 2,5 mm	 accessibility gauge Ø 1 mm

2nd ADDITIONAL LETTER :				
MEANING OF THE SECOND ADDITIONAL LETTER				
SPECIFIC CRITERIA	**H**	**M**	**S**	**W**
Specific criteria	High voltage equipment	Tested against negative effects of water penetration, when the moveable parts of the equipment (e.g. wheels of a revolving machine) are moving	Tested against the negative effects of water penetration, when the moveable parts of the equipment (e.g. wheels of a revolving machine) are stationary	Suitable for use in environmental conditions as specified and equipped with additional measures of protection

Overview of NEMA ratings

National Electrical Manufacturers Association, or NEMA, is an organization that deals with technical standards for the manufacturing of electrical equipment and medical imaging equipment.

Most commonly, they are known for their rating system, known as NEMA Rating which classifies the level of protection an enclosure has against environmental elements. They are closely related to IP Ratings, but they allow for additional environmental elements such as corrosion.

NEMA is an American standard whereas IP is a European standard. NEMA ratings are used exclusively for enclosures, but IP ratings can be used for all kind of devices.

There is no direct correlation between NEMA ratings and IP ratings!

Understanding NEMA Ratings: Definition, NEMA Chart, and FAQS - Engineer Fix

NEMA ratings start at level 1 all the way up to NEMA level 13. Each NEMA rating means a different level of protection.

NEMA RATING	DESCRIPTION	ENVIRONMENTAL REQUIREMENTS	MECHANICAL REQUIREMENTS
NEMA 1	Indoor use	Dust-tight	Basic protection
NEMA 2	Indoor use	Drip-tight	Basic protection
NEMA 3	Outdoor use	Rain-tight	Basic protection
NEMA 3R	Outdoor use	Rain-tight	Protection from falling ice and sleet
NEMA 4	Outdoor use	Water-tight	Protection from falling ice and sleet
NEMA 4X	Outdoor use	Water-tight	Protection from corrosion
NEMA 6	Submersible	Water-tight	Protection from corrosion
NEMA 7	Explosion-proof	Protection from ignitable dust, and fibers	Protection from mechanical damage and corrosion
NEMA 8	Explosion-proof	Protection from ignitable gases and vapors	Protection from mechanical damage and corrosion
NEMA 9	Explosion-proof	Protection from ignitable gases, vapors, and dusts	Protection from mechanical damage and corrosion
NEMA 10	Explosion-proof	Protection from ignitable dusts	Protection from mechanical damage and corrosion
NEMA 11	Explosion-proof	Protection from ignitable fibers	Protection from mechanical damage and corrosion
NEMA 12	Indoor use	Dust-tight	Protection from dripping water and non-corrosive liquids
NEMA 13	Indoor use	Dust-tight	Protection from dripping water and oil

NEMA ratings to find in Cembre products

6P Rating
NEMA 6P enclosures are applicable indoors and outdoors. They prevent accidental human contact with electrical components.
They also protect against:
- Falling earth
- Direct water from the hose
- Damage caused by ice forming on the enclosure surface
- Water ingress from temporary immersion

4X Rating
NEMA 4X IP rated enclosures are ideal for protection against limiting accidental human contact and:
- Dust carried by the wind
- Sleet
- To snow
- Water sprayed from the hose
- Falling earth
- Corrosion

Enclosed equipment will remain safe even if snow settles on the storage facility.

12 Rating
NEMA 12 enclosures are made with holes and are recommended for indoor installation.
They provide electrical components with some protection against:
- Dangerous materials
- Falling earth
- High speed dust, lint, fibers
- Liquids that drip or splash slightly

Overview of NEMA ratings

	POLYMERIC MATERIAL - MAXIBLOCK			METALLIC MATERIAL - MAXIBRASS
TEST DESCRIPTION	6P RATING	4X RATING	12 RATING	6P RATING
FLAMMABILITY	Yes For hole diameter >28,7mm (from Pg29 or M32)	Yes For hole diameter >28,7mm (from Pg29 or M32)	Yes	NO (metals exempted)
RESISTANCE TO IMPACT	Yes For hole diameter >28,7mm (from Pg29 or M32)	Yes For hole diameter >28,7mm (from Pg29 or M32)	Yes	NO (metals exempted)
CORROSION	NO (polymers exempted)	NO (polymers exempted)	NO (polymers exempted)	Yes
GASKET OIL IMMERSION	-	-	Yes	-
GASKET MATERIAL AGING	Yes	Yes	Yes	Yes
INGRESS OF WATER (HOSEDOWN)	Yes	Yes	-	Yes
PROLONGED WATER SUBMERSION	Yes	-	-	Yes
ATOMIZED WATER	-	-	Yes	-

Flammability
All of the following results shall be obtained:
a) The material shall not continue to burn for more than 1 minute after the fifth 5-second application of the test flame, with an interval of 5 seconds between application of the flame.
b) Flaming drops or flaming or glowing particles that ignite surgical cotton 305 mm (12 inch) below the test specimen shall not be emitted by the test sample at any time during the test, and
c) No visible flame shall be observed on the surface of the enclosure opposite to the surface that the test flame is applied during the test. In addition, unless otherwise specified in the relevant end-product standard, no opening greater than 3 mm shall appear after the test and the sample has cooled for 30 seconds.

Resistance to impact
The equipment shall withstand the impact without occurrence of any of the following:
a) Making uninsulated live part accessible to contact (use the accessibility probe of the product standard for this evaluation);
b) Producing a condition that might affect the mechanical performance of the equipment; or
c) Producing a condition that would increase the likelihood of an electric shock.

Corrosion
600-Hour Salt Spray Test
1200-Huor Moist Carbon Dioxide-Sulfur Dioxide-Air Test

Gasket oil immersion
Gasket material, if used in a Type 12, 12K, or 13 enclosure, shall not swell more than 25 percent or shrink more than one percent as a result of immersion in ASTM Reference Oil No. 3 (see ASTM D471 Standard Test Method for Rubber Property-Effect of Liquids for oil specifications) or IRM Immersion 903 (see ASTM D5964) for 70 hours at room temperature.

Gasket material aging
Gasket material used in a Type 2, 3, 3X, 3RX, 3S, 3SX, 4, 4X, 5, 6, 6P, 12, 12K, or 13 enclosure shall be subjected to a temperature of 69 to 70°C (156 to 158°F) in circulating air for 168 hours.

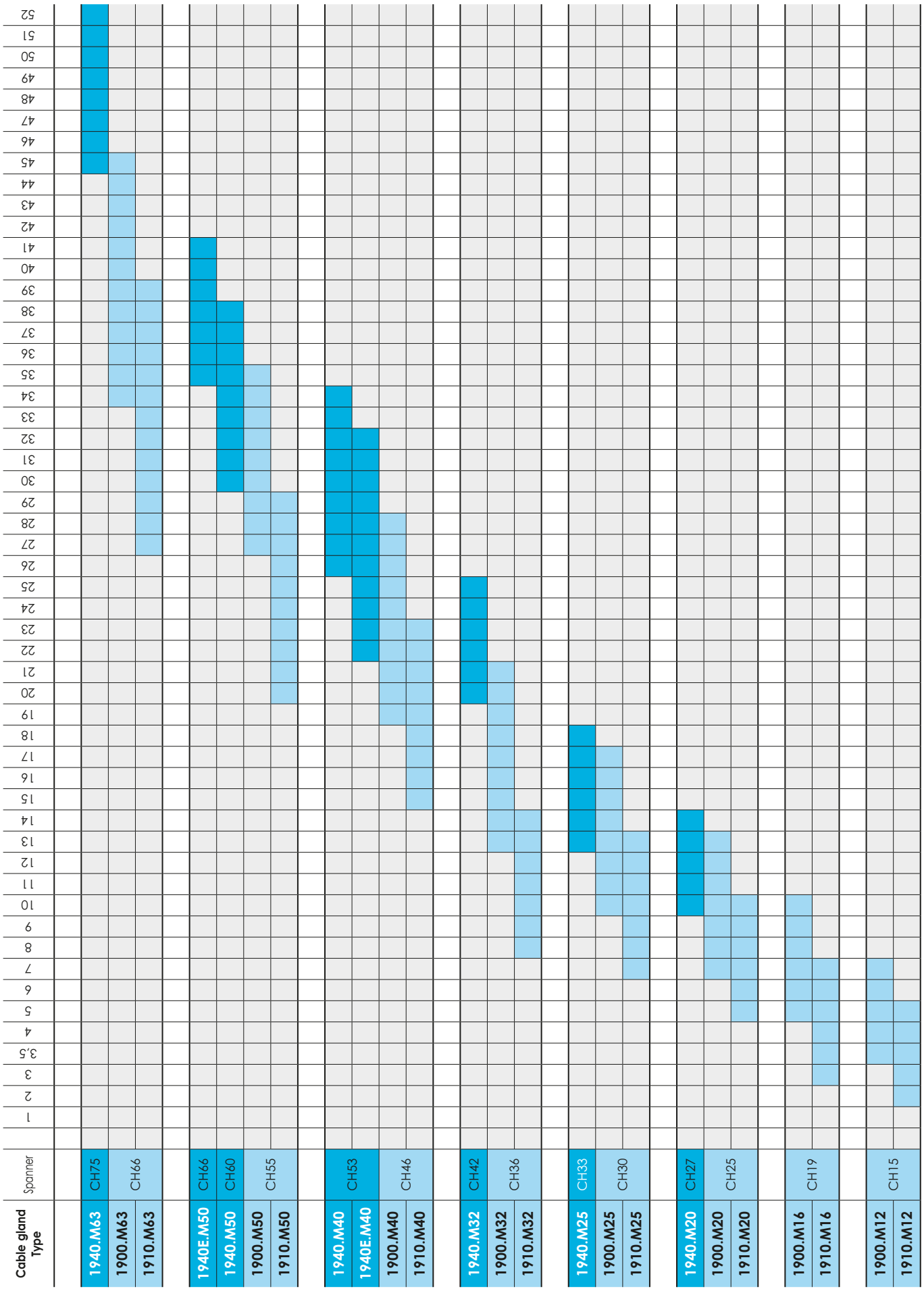
Ingress of water (Hosedown)
The enclosure and its external mechanisms shall be subjected to a stream of water from a hose that has a 25 mm (1in) inside diameter nozzle that delivers at least 240 L (65 gal) per minute.

Prolonged water submersion
Submerge the complete enclosure, connected as intended for use, in water so that the highest point of the enclosure is 1.8 m (6 ft.) below the surface for a period of 24 hours. The enclosure need not be submerged to a depth of 1.8 m (6 ft.) if the equivalent pressure differential between the interior and exterior be achieved by pressuring the water around the enclosure to simulate a depth of 1.8 m (6 ft.).

Atomized water
The enclosure shall be subjected to a spray of atomized water using a nozzle that produces a round pattern 75 to 100 mm (3 to 4 in.) in diameter when measured 300 mm (12 in.) from the nozzle. The air pressure shall be 200 kPa (30 psi). Not less than 4.8 mL/linear cm (5 oz./linear ft.) shall be applied at rate of 11.4 L/hour (3 gal/hour).
The nozzle shall be held from 300 to 380 mm (12 to 15 in.) from the enclosure, and the spray of water shall be directed one time at all point of potential dust entry, such as seams.

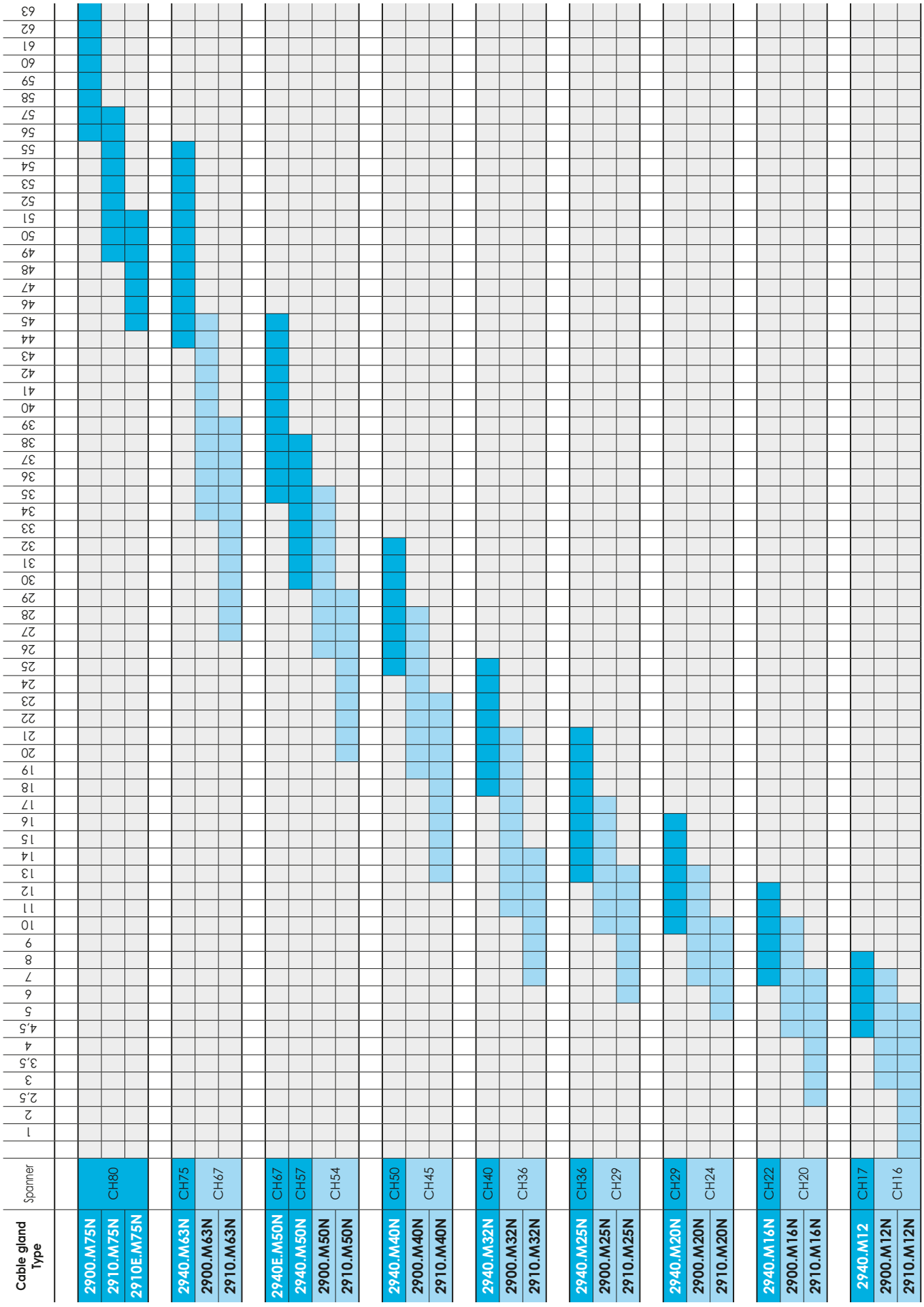
Comparative table of clamping range of plastic cable glands

between the 1940.M version with extended clamping range and the standard 1900.M



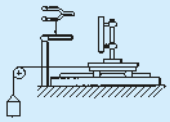
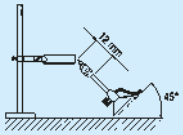
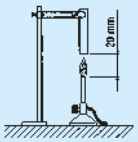
Comparative table of clamping range of brass cable glands

between the 2940.M version with extended clamping range and the standard 2900.M



CEMBRE

Flammability test for products and materials

TYPE OF TEST	TEST EQUIPMENT	COMPLIANCE WITH STANDARDS	OBJECTIVE OF TEST	TEST RESULTS	TEST CONDITIONS		
					heat source	length of test	characteristic features
CHARACTERISTIC FEATURES		IEC 695-2-1 CEI 50-11 DIN VDE 0471-2-1	Check that abnormal heating produced by overcurrent and bad contacts does not compromise the safety of the insulating material. Lighting test. The wire is pressed against the sample using force and penetrates up to 7 mm.	Any sign of flame starting must stop within 30 sec. of removing the glowing wire. TEST TEMPERATURE • 650° for materials which do not support parts under tension • 750° for materials which support parts under tension of moving sockets and plugs • 850° for materials which support parts under tension of fixed sockets and switches	Glow-wire 4 mm in diameter	Wire applied for 30 seconds	Flame extin-ction time
NEEDLE FLAME		IEC 695-2-1 CEI 50-11	Simulates the effect small fla-mes have which may occur due to internal faults of products in order to judge the fire risk.	• the sample does not catch fire • the flame and incandescent particles do not spread the fire • combustion lasts less than 30 seconds	Bunsen burner flame	Flame ap-plied for (Ta) 5, 10, 20, 30, 60, 120 sec. According to particular standards	The degree of severity: flame appli-cation time (Ta)
UL (UNDERWRITER' LABORATORIES)		UL 94	Measuring of time the sample continues to burn after the direct flame has been removed.	• V0 if the sample burns for less than 5 sec. before going out. • V1 if it burns for less than 25 sec. • V2 if it burns for less than 25 sec. With incandescent drops • HB if it burns for more than 25 sec. (horizontal sample and burning speed less than 38 mm per minute) Comparable to ASTM D-635	Bunsen burner flame	Flame ap-plied for 10 seconds twi-ce following	Length of combustion

Recommended torque settings for cable glands

MAXIblock®, spiralblock®, MAXIbrass®, MAXIinox
METRIC THREADS, TO OBTAIN IP68 INGRESS PROTECTION IN ACCORDANCE WITH EN 60529/A2

	THREAD CABLE GLAND	CABLE GLAND	
		metallic	non-metallic
		torque (Nm)	
Torque values apply to mounting in a threaded entry and to use with a locknut	M12 x 1,5	6.0	2.7
	M16 x 1,5	6.0	5.0
	M20 x 1,5	8.0	7.0
	M25 x 1,5	8.0	7.5
	M32 x 1,5	18.0	8.0
	M40 x 1,5	18.0	8.0
	M50 x 1,5	18.0	15.0
	M63 x 1,5	25.0	15.0

MAXIblock®, spiralblock®, MAXIbrass®, MAXIinox
PG THREADS, TO OBTAIN IP68 INGRESS PROTECTION IN ACCORDANCE WITH EN 60529/A2

	THREAD CABLE GLAND	CABLE GLAND	
		metallic	non-metallic
		torque (Nm)	
Torque values apply to mounting in a threaded entry and to use with a locknut	Pg7	6.25	2.5
	Pg9	6.25	3.75
	Pg11	6.25	3.75
	Pg13,5	7.5	5.0
	Pg16	7.5	5.0
	Pg21	10.0	7.5
	Pg29	15.0	8.0
	Pg36	25.0	10.0
	Pg42	25.0	10.0
	Pg48	25.0	15.0

MAXIblock®, spiralblock®
GAS THREADS, TO OBTAIN IP68 INGRESS PROTECTION IN ACCORDANCE WITH EN 60529/A2

	THREAD CABLE GLAND	NON-METALLIC CABLE GLAND
		torque (Nm)
Torque values apply to mounting in a threaded entry and to use with a locknut	G1/4"	4
	G3/8"	5
	G1/2"	6
	G3/4"	10

Cable glands installation:

1) Before proceeding with the installation, inspect the cable gland; installation must be performed by qualified personnel and with suitable tools.

2) Cable glands must be used in their original supplied condition with no modifications.

3) Torque values listed in the catalogue are intended as the recommended level for reaching the correct IP protection level and achieving the required cable retention properties. As the torque depends on the type of insulation of the conductor used, it is responsibility of the user to define the ideal torque for their specific application.

4) Both the body and head of the cable gland must be correctly tightened; excessive or reduced tightening may compromise the protection level and the cable retention performance.

5) Loosening a cable gland already installed and then tightening again may result in a reduction of the IP protection level achieved and compromise the cable retention properties. In these instances, we recommend replacement of the cable gland.

Operating temperatures:

Dynamic range:
in this temperature range the cable gland withstands shocks and stresses with an energy value equivalent to the declared impact category according to EN 62444.

Static range:
in this temperature range the cable gland, properly installed in compliance with technical requirements, must not be further strained with stress or forces (shock, vibration, pressure, etc.). The same conditions also apply to both the enclosure and the wire to which the cable gland has been assembled.

Recommended torque settings for entry plugs

PLASTIC ENTRY PLUGS METRIC AND PG THREADS, TO OBTAIN IP54 / IP68 INGRESS PROTECTION				
PLASTIC ENTRY PLUGS		TORQUE (Nm)		DEGREE OF PROTECTION
METRIC	Pg	Applied to PLUG	Applied to LOCKNUT	
M12 - M16	Pg7 - Pg9	1	1.5	• IP 54 • IP 68 (if applied with FD sealing rings)
M20 - M25	Pg11 - Pg13,5 - Pg16 - Pg21	1.5	3	
M32 - M40	Pg29	3	6	
M50 - M63	Pg36 - Pg42 - Pg48	6	10	

BRASS ENTRY PLUGS METRIC AND PG THREADS, TO OBTAIN IP54 / IP68 INGRESS PROTECTION				
BRASS ENTRY PLUGS		TORQUE (Nm)		DEGREE OF PROTECTION
METRIC	Pg	Applied to PLUG	Applied to LOCKNUT	
M12 - M16 - M20 - M25	Pg7 - Pg9 - Pg11 Pg13,5 - Pg16 - Pg21	2	4	• IP 54 • IP 68 (if applied with FD sealing rings)
M32 - M40 - M50 - M63	Pg29 - Pg36 - Pg42 - Pg48	3	6	

Discover other Cembre catalogues



Identification & Labelling

systems

the system includes:

- Thermal transfer printer for sheet media
- Thermal transfer printer for roll media
- Embosser
- Manual system
- Accessories
- Labels

MG4



ROLLY 3000



GENERAL TERMS AND CONDITIONS OF SALE

1. GENERAL TERMS

1.1 For the purpose of these GENERAL TERMS AND CONDITIONS OF SALE (the "Terms and Conditions"), the following definitions shall apply:
- «Seller»: CEMBRE S.p.A. and its affiliates;
- «Affiliate»: any entity directly or indirectly, through one or more intermediaries, controlling, controlled by, or under common control with CEMBRE S.p.A.;
- «Buyer»: any professional or entrepreneur purchasing the Products from the Seller;
- «Products»: the goods manufactured and/or sold by the Seller;
- «Order(s)»: each proposal for the purchase of the Products submitted by the Buyer to the Seller in writing;
- «Sale(s)»: each single sale agreement entered into further to the receipt by the Buyer of the written order confirmation of the Seller.

1.2 These Terms and Conditions govern the sale of equipment, components, parts, and materials (the "Products") supplied by the Seller to the Buyer. Any specific supply agreement, order confirmation, quotation, these Terms and Conditions and the purchase order form the Sales Agreement ("Agreement") between the parties. In the event of a conflict between these documents, precedence shall apply in accordance with the order listed in the previous sentence.

1.3 CEMBRE's quotation, proposal or order confirmation is conditional on the Buyer's acceptance of these Terms and Conditions. Buyer's silence or acceptance/use of the Products or services related to any purchase order shall constitute tacit approval of these Terms and Conditions.

1.4 Any additional or conflicting terms included in the Buyer's request for quotation/proposal, specifications, purchase order or any other written or oral communication are not binding on CEMBRE unless separately signed by CEMBRE. CEMBRE's failure to object to Buyer's additional or conflicting terms (including the Buyer's Terms and Conditions of Purchase) does not operate as a waiver of any terms contained herein.

2. ORDERING PROCEDURES

2.1 Offers of the Seller are not binding. This shall also apply if the Seller has provided the Buyer with catalogues, technical documentation (e.g. drawings, plans, calculations, calculations, references to DIN standards), other product descriptions or documents - also in electronic form - to which the Seller reserves property rights and copyrights pursuant to Clause 8.

2.2 Unless otherwise agreed, the information in offers and order confirmations shall refer to the contents of the respectively valid price lists, catalogues or other documents - also in electronic form, including technical data sheets, of the Seller.

2.3 All orders must be sent in writing and include all the details for a correct identification of the Products and Services requested. The minimum order amount is € 250.

2.4 The order is an irrevocable proposal to buy, but it is accepted by the Seller only following order acknowledgement / confirmation or execution.

2.5 The Buyer may request in writing to cancel or modify the order only prior to its execution and the Seller may at its own discretion accept or reject such request. Only cancellations and modifications expressly accepted by the Seller in writing shall be valid and effective.

3. PRICING AND PAYMENT TERMS

3.1 Unless otherwise specified in writing, Seller's quotations have a 30-day validity, after which they will automatically expire.

3.2 Prices quoted in price-lists and marketing materials are not binding and cannot be considered a "public offer". Unless otherwise agreed in writing, prices are always quoted based on delivery term FCA (Incoterms latest version) net of any applicable statutory value added /goods and services tax and of any applicable taxes and duties.

3.3 The Seller reserves the right to update the price-list without prior notice; the new release of the price-list will apply to all the Orders placed after the date such new release is issued and sent to the Buyer. Invoices will be issued in accordance with the prices in force on the date of the order confirmation or as otherwise agreed in specific supply agreements.

3.4 In the event of late payment, the Seller will have the right to charge overdue interest in accordance with the provisions of law no. 231/2002. Any further claim for damages caused by delay shall remain unaffected.

3.5 In the event of payment arrears, suspension of payments and if circumstances become known which are likely to reduce the creditworthiness of the customer, the Seller shall be entitled, after having granted a period of grace, to declare all claims arising from the entire business relationship with the customer immediately due for payment. Discount agreements, rebates and the like shall be deemed forfeited in this case.

3.6 Failure to pay or delayed payments above 30 days also entitle the Seller to suspend the delivery of the Products and terminate every single Sale entered into. The suspension of the delivery of the Products or the termination of any Sale shall not entitle the Buyer to claim for any compensation.

3.7 Any complaints regarding the Products and/or their delivery shall not be grounds for suspending or delaying the payment.

3.8 In the event of default or risk of insolvency concerning the Buyer, the Seller will be entitled to:
- demand payment in advance or suitable guarantees; and/or
- suspend deliveries; and/or
- demand immediate payment of all the invoices already issued, regardless of the payment term therein indicated; and/or
- terminate any existing sale agreement.

4. DELIVERY

4.1 Except as otherwise agreed upon in writing between the parties, the Seller shall deliver the Products FCA its premises (INCOTERMS latest version). If required, the Seller shall take care of the shipment of the Products at the Buyer's costs and expenses. In this last case delivery shall be considered to have taken place when the Products are transferred to the forwarder.

4.2 In case of missing or damaged goods during transport, the Buyer must formulate all the necessary reservations on the delivery note of said goods at the time of delivery. Such reservations must also be confirmed in writing to the Seller within 48 hours of the date of the delivery, by registered mail with return receipt.

4.3 The Seller cannot be held liable for delays in deliveries in the following circumstances:
- acts of God or other extraordinary events beyond reasonable control, resulting in interruption of the manufacturing process, including shortage of energy and/or raw materials, pandemics strikes, embargoes or trade restrictions;
- delays due to the Buyer, particularly when the Buyer failed to provide the information required to execute the order;
- overdue payments, pursuant to arts. 1460 and 1461 of the Civil Code.

4.4 Penalties for late delivery may be charged by the Buyer only when expressly agreed in a specific supply agreement, and in any case up to a maximum amount equal to the price of the delayed delivery.

4.5 The Buyer shall not reject partial deliveries or late deliveries. All costs resulting from the rejection of goods will be charged to the Buyer. Excess deliveries for the purpose of rounding up to the packing quantity shall be deemed to be contractual performance and shall be paid by Buyer.

4.6 Goods returned at the request of the Buyer can only be accepted if the Seller has agreed in writing. The returned parts must be in their original packaging, come from the current product range and be in saleable condition. The return shipment must be carriage paid and at the risk of the Buyer. From the purchase price to be refunded, a depreciation fee will be deducted based on the actual conditions of the goods, their age and original price. Depreciation shall not apply to goods returned under section 5 and 6 hereinafter, provided that the return was authorized by the Seller. Custom-made products or articles which are not included in the current catalogue will not be taken back. Returned goods that are not accepted by the Seller will be shipped back to Buyer or scrapped at the Buyer's choice (freight paid by the Buyer).

4.7 In the event of modifications to the order required by the Buyer, the delivery deadline will automatically be extended for the time necessary to implement the required modification.

5. CONFORMITY

5.1 Complaints about apparent defects or non-conformity of the product delivered in relation to the purchase order or the packing slip must be notified to the Seller in writing within 48 hours after receipt of the products, subject to forfeiture. The Buyer loses the right to claim if the goods are not inspected immediately after delivery.

5.2 In the absence of a specific agreement on quality, the features contained in a specification, a product-specific technical data sheet or an equivalent description by the Seller shall be deemed to be the relevant quality. Insignificant deviations shall not constitute a defect.

5.3 All actions regarding non-conformities detected by the Buyer must be agreed upon in advance with the Seller's quality department; in particular, the Buyer must not charge any costs not agreed upon in advance between the Parties.

6. WARRANTY AND LIABILITY

6.1 Unless otherwise agreed upon in writing, the Seller warrants that the Products are free from defects in material, design and manufacturing and fit for use. No guarantee is given herein by the Seller on the conformity of any Product with the law and regulations in countries outside EU and the UK. No other warranties, express or implied, are made with respect to the Products including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose.

6.2 Unless otherwise agreed upon in writing, the warranty shall be valid for a period of one year from the date of delivery to the Buyer. Warranty is provided only on tools or machines with a serial number or other identification number that allows traceability. The warranty is, however, excluded if the Products have already been processed by the Buyer or incorporated in products, machinery or plants of the Buyer or of third parties.

6.3 Claims for defective Products shall be made in writing within eight working days from discovery.

6.4 The defective Products shall be returned to the Seller at the Buyer's cost upon Seller's request. The Seller's sole obligation (and Buyer's sole remedy) for any breach of warranty under the foregoing warranty shall be to repair (at location designated by Seller) or replace DAP the original point of delivery the defective goods, within a reasonable time. The Buyer will waive any claim for damage compensation once the warranty has been fulfilled and the Product has been repaired or replaced. The warranty shall not cover defects due to environmental or stress testing, misuse, failure to observe the Seller's instructions regarding the functioning, maintenance and the storage of the Products, repairs or modifications made by the Buyer or a third party without prior written authorization of the Seller, improper installation, transportation or handling.

6.5 Direct interventions on site are not included in the warranty; if expressly requested by the Buyer they are subject to charge, according to the Seller's tariffs.

6.6 Warranty repair/replacements may be suspended in the event of insolvency of the Buyer or overdue invoices.

6.7 Save for the case of fraud or gross negligence, the Seller shall bear no liability for damages to property or third parties other than that expressly provided by virtue of any mandatory law provisions. In any case, the Seller shall not be liable for indirect or consequential damages of whatsoever nature as, by way of example, production losses or unearned profits. In any case, Buyer's right to damages shall be limited to a maximum amount equal to the value of the Products showing defects or faults.

6.8 The Seller shall bear no liability for damages to property or third parties other than that expressly provided by virtue of any mandatory law provisions. The Seller will not, under any circumstances, be liable for the cost of removal or reinstallation of goods or the cost of disassembly or reassembly or for loss of business or goodwill or profits or for cost of inspection or storage or for any incidental and consequential damages of any nature which may arise from the sale of goods to the Buyer. When liability cannot be excluded by virtue of mandatory law provisions, Buyer's right to damages shall in any case be limited to a maximum amount equal to the value of the Products showing defects or faults.

6.9 The Seller has taken out suitable insurance policies covering general liability in connection with the Products.

7. EXPORT CONTROL REGULATIONS

7.1 CEMBRE shall not be obligated to fulfil this agreement if such fulfilment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions or restrictions.

7.2 If the Buyer transfers the goods to a third party, the Buyer shall comply with all applicable national and international (re-) export control regulations.

7.3 The Buyer shall cooperate with the Seller to provide the information concerning end users, destination and intended use of goods supplied by CEMBRE, in case this is necessary due to customs control activities or export control regulations.

7.4 Violations of this section 7 shall entitle the Seller to terminate any existing sale agreement at any time without notice.

8 INTELLECTUAL PROPERTY, CONFIDENTIALITY AND PRIVACY

8.1 The use of CEMBRE trademarks is governed by the General Terms and Conditions, published on the website https://www.cembre.com/group/termsandconditions, which the Buyer is obliged to comply with. It is prohibited to relabel and repackage the Products without CEMBRE's written authorization.

8.2 Each party will retain ownership of its Intellectual Property developed before or outside the scope of the sale agreement. If any Intellectual Property is developed under the sale agreement, the parties shall execute a separate agreement regarding the ownership thereof.

8.3 Seller expressly reserves the copyright to its catalogues, technical documentation (e.g. drawings, plans, calculations, data sheets), other product descriptions or documents - also in electronic form. The Buyer is only granted a non-exclusive right of use.

8.4 All drawings and technical documents relating to the Products submitted by one party to the other shall remain exclusive property of the submitting party and can only be used for the purpose for which they were provided. The receiving party is not allowed to use such documents otherwise, to procure copies thereof, to reproduce and to disclose them to a third party without consent of the submitting party. The end user of the Products shall not be deemed as a third party for the purpose of this section.

8.5 Any liability of the Seller is excluded if the Buyer is responsible for the infringement of property rights, in particular because he has modified the object of performance, used it in breach of contract or taken it to a place other than the place of destination without the Seller's consent.

8.6 If the Seller manufactures goods according to drawings, samples or other information provided by the Buyer (OEM products) and if the property rights of third parties are infringed in the process, the Buyer shall indemnify the Seller from all claims for damages resulting from this.

8.7 The Seller warrants that the personal data received from the Buyer will be processed in full compliance with the applicable data protection regulations.

8.8 Violations of this section 8 shall entitle the Seller to terminate any existing sale agreement at any time without notice.

9. APPLICABLE LAW AND JURISDICTION

9.1 The place of performance for the delivery together with any subsequent performance on the part of the Seller is the Seller's registered office.

9.2 Place of jurisdiction is the registered office of the Seller. The Seller is also entitled to take legal action at the Buyer's registered office.

9.3 The legal relations between the Seller and the Buyer shall be governed by Italian law to the exclusion of the U.N. Convention on the International Sale of Goods (CISG).

9.4 The Buyer acknowledges that the CEMBRE Group has adopted a Code of Ethics and an Anti-Corruption Policy and undertakes to comply with the provisions of such documents, available at www.cembre.com, abstaining from any unlawful conducts. Failure to comply with any of the provisions of the Code of Ethics and/or of the Anti-Corruption Policy will result in a serious breach of contractual obligations and will entitle CEMBRE to terminate the contract with immediate effect, without prejudice to compensation for damages.

10. FORCE MAJEURE AND HARDSHIP

10.1 No failure, omission or delay of the Seller in the performance of any obligation shall be deemed a breach of the agreement nor create any liability hereunder, if the failure, omission or delay shall arise from acts of God, laws, rules, regulations or orders of any governmental authority, floods, fires, explosions, storms, earthquakes, acts of war (declared or undeclared), rebellion, insurrections, riot, sabotage, shortages of fuel, power, energy resources, and/or raw material, invasion, epidemic, quarantine, accident, strikes, lockouts, labor disputes, or any other comparable cause beyond the reasonable control of the Seller.

10.2 If, during the term of the contract, events occur which have not been contemplated by the Parties and which fundamentally alter the equilibrium of the contract, thereby placing an excessive burden on the Seller in the performance of its contractual obligations (hardship), the Seller shall have the power to make any revision to the contract that it finds just and equitable in the circumstances, or to terminate the contract at a date and on terms to be fixed.

the CEMBRE group

CEMBRE SpA - Italy



CEMBRE Ltd - UK



CEMBRE Sarl - France



CEMBRE España SLU - Spain



CEMBRE GmbH - Germany



CEMBRE Inc - USA



Making the right connections

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