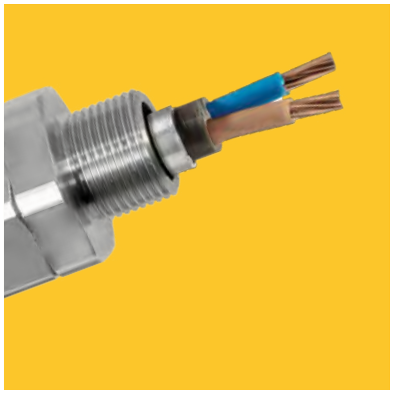
SECURING CABLES WORLDWIDE

CABLE GLANDS AND ACCESSORIES



GLOBAL

CMP PRODUCTS

ABOUT CMP

With over 60 years' experience across a wide range of industries, including oil and gas, petrochemical, power, rail and mining, CMP Products is widely acknowledged as the leading choice for cable glands, cable cleats and accessories globally.

Occupying three manufacturing sites in the north of England, CMP designs, manufactures and distributes products via a major distribution network throughout the world; providing customers with ease of access to new and existing products.

Over the years, CMP has developed strong relationships with some of the world's largest OEMs and distributors alike, many of which have become long term partners of the business.

Additional strength and security lies in CMP being part of the distinguished British Engines group of companies which has been engineering products since 1922, bringing with it heritage and experience of global markets for almost a century.

CUSTOMER FIRST

Customers are at the heart of our business and we are constantly striving to ensure that they have access to the very latest innovations and highest quality products.

With a major global distribution network, coupled with warehouses and office locations globally, support can be provided regardless of the region in which customers are located.

Our teams are constantly listening to the voice of our customers in order to stay ahead of the market. Whether developing RapidEx, the first fast-curing liquid resin for barrier glands, introducing triple-certified cable glands, or being first to provide bespoke solutions.

Our service levels ensure short lead times for our customers and provide the ability to fast-track delivery when required. Project documentation is available in a range of languages and dedicated support is available for complex projects spanning multiple countries.

CMP's multilingual websites provide ease of access to content such as catalogues, data sheets and STEP files on both desktop and mobile devices, whilst automated invoicing and EDI solutions ensure that we can be first with customer information at the click of a mouse.

EXTENSIVE PRODUCT RANGE

From standard products to bespoke ranges, CMP's products have been installed on a variety of large-scale projects across the globe. These range from the most remote and testing regions of the world from Antarctica to the soaring temperatures of the Sub-Sahara.

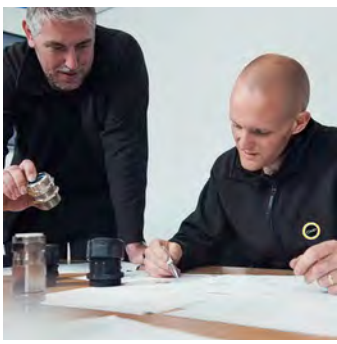
Cable glands, cable cleats and accessories are available for industrial/general purpose, explosive atmosphere, mining and Americas (NEC & CEC). With a wide range of sizes, thread lengths and materials, the majority of installations can be covered using our standard range alone.

For unique and specialist applications, bespoke products can be engineered by our dedicated in-house Research & Development Team, which has worked on a number of bespoke products, often being developed, tested and manufactured in very short time frames.

EXPERTLY MANUFACTURED PRODUCTS

To ensure products are of the highest quality, CMP operates an integrated quality management system (conforming to ISO 9001: 2015, ISO 14001: 2015 and ISO 45001: 2018), which is overseen by a specialist Quality Team, involved in every step of the manufacturing process.

Along with operating a safe working environment, quality is a fundamental driver of our business and we continually invest in new machinery, equipped with efficiency monitoring tools, which helps us to work within some of the tightest tolerances on the market.



TRANSPORTING PRODUCTS

Organised by our in-house export team and supported by our sister company Stadium Export Services, CMP ships millions of products all over the world each year.

This experience means that customers' products are shipped from A to B through an efficient and cost-effective service, whilst support is also available with logistical and project documentation as and when required.

CUSTOMER TRAINING

We recognise the importance of a 'right-first-time' installation, which can save customers time and money, so to support the installation of our products, practical training can be provided globally, whether remote or on-site.

Our teams have experience of training small groups of individuals, through to large, multiple groups involved on major projects. This can be delivered in a number of different languages, along with training support materials and certification of competence for attendees.

Additionally, for those looking to expand their knowledge of both the industry and our products in general, CMP's CPD accredited presentations provide a well-rounded introduction.

TECHNICAL EXPERIENCE

Customers have access to CMP's network of specialist engineers around the world, with experience and expertise in global installation standards. This means that they receive direct support on technical queries, including those relating to products, applications, standards and certification.

To stay up to date and provide customers with products which are compliant to the latest versions of the standards, members of CMP's Research & Development Team is actively involved in the BS EN and IEC technical standard committees.

CONTENTS

INTRODUCTION TO CABLE GLANDS

CABLE GLANDS ARE MECHANICAL CABLE ENTRY DEVICES, WHICH CAN BE CONSTRUCTED FROM METALLIC OR NON-METALLIC MATERIALS OR A COMBINATION OF BOTH.

They may be used on all types of electrical power, control, instrumentation, data and telecommunications cables and are used as sealing or terminating devices to ensure that the characteristics of the enclosure into which the cable enters, can be safely maintained.

The main functions of cable glands, depending on type, are listed briefly as follows:

- Provide environmental protection by sealing on the outer cable sheath, excluding dust and moisture from the electrical or instrument enclosure.
- In the case of armoured cables, facilitate earth continuity, when the cable gland has a metallic construction. In this case cable glands may be tested to ensure that they can withstand a minimum short circuit fault current, corresponding to that of the cable armour or peak fault of the electrical system.
- Provide a holding force on the cable to ensure adequate levels of cable pull-out resistance, and prevent lateral and axial loads being applied to the internal cable conductor terminations.
- Provide additional sealing on the part of the cable entering the enclosure, when a high degree of ingress protection is required.
- Provide additional environmental sealing at the cable entry point, maintaining the ingress protection rating of the enclosure and cable gland combination, with the selection of applicable accessories dedicated to performing this function.
- Provide resistance to corrosion determined by selection to a technical standard, or by corrosion resistance tests.

When used in explosive atmospheres it is crucial that cable glands are selected correctly according to the specified installation code or standard requirements.

There are various types of threads used:

- Metric thread
  The ISO metric screw threads are the most commonly used type of general-purpose screw thread worldwide.
- National Pipe Thread (inch system)
  American National Standard Pipe Thread standards.
- Other thread types such as PG, BSP and ET thread are available.

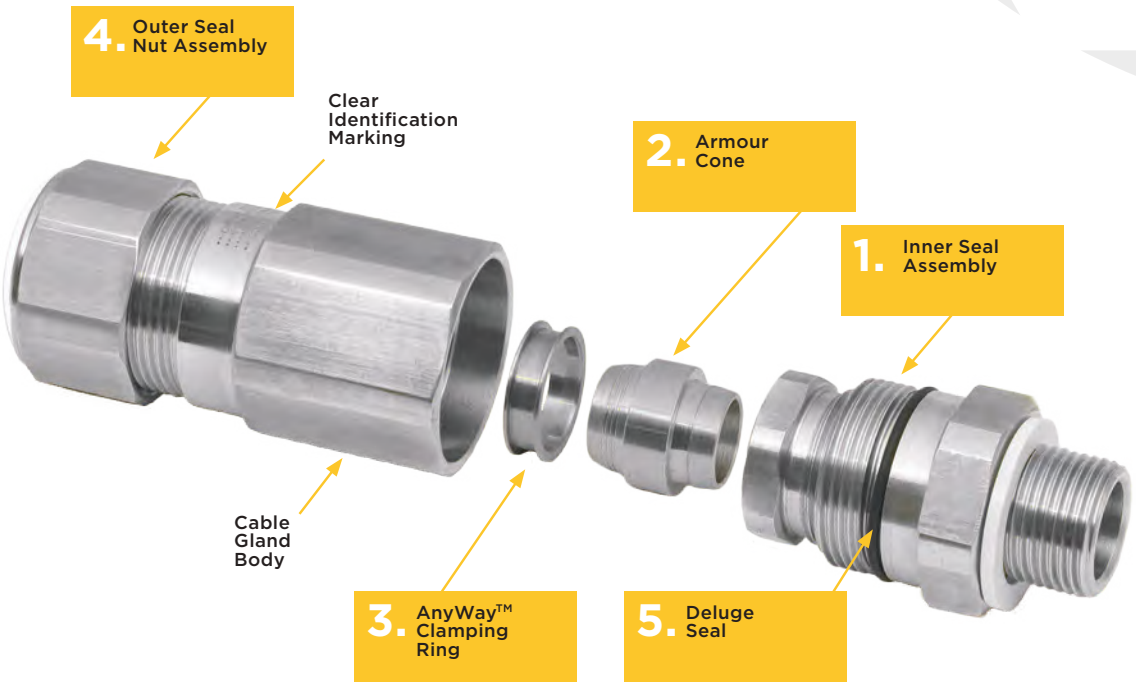
CMP PRODUCTS CABLE GLANDS - THE KEY FEATURES

CMP has a wide range of cable glands available to suit different cables, environments and applications and it is imperative that the correct cable gland is selected for the correct scenario.

The range covers cable glands for standard industrial application through to explosive atmosphere cable glands which provide additional levels of protection.

A typical CMP double seal cable gland is shown below and illustrates the complexity of engineering that goes into securing cables and infrastructure. This particular example would be typical of a cable gland used in an explosive atmosphere.

TYPICAL CMP DOUBLE SEAL CABLE GLAND



1.

INNER SEAL ASSEMBLY

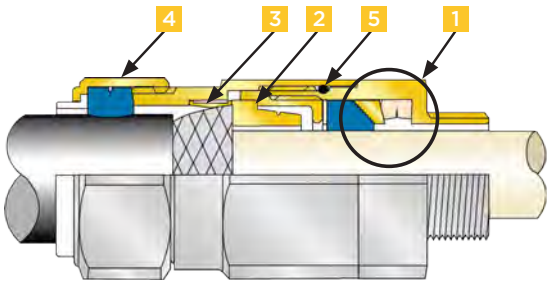
The possibility of cable damage caused by inadvertent over-tightening is eliminated through CMP's unique inner sealing principle. This is achieved using a displacement seal that is independently controlled by the user during installation. The method differs from other cable gland types because the activation of the inner sealing ring is separated from the armour clamping components.

The Compensating Displacement Seal System (1) has helped CMP to take its original displacement sealing ring concept to another level. The unique compensator has allowed the cable gland components to be fully tightened metal-to-metal and relieve the potential excess forces that could be transferred to the cable bedding, eliminating cable damage.

2/3.

ARMOUR CONE AND ANYWAY™ CLAMPING RING

CMP Products' armour clamping method involves a unique termination solution that ensures a permanent crimping of the cable armour, creating a low impedance 360° connection that does not self-loosen. The patented AnyWay™ clamping ring aids an easy 'right-first-time' installation. Secure armour clamping like this also contributes to enhanced levels of EMC performance and creates reliable earth continuity.



4.

OUTER SEAL NUT ASSEMBLY

The unique CMP Outer Seal Tightening Guide (OSTG) and Load Retention Sealing Ring (LRS) ensure an IP/NEMA rated seal is formed against the cable to the correct degree. This is also applicable to our sealing rings on unarmoured cable glands.

5.

DELUGE SEAL

CMP Products integrated 'O' ring deluge seal (tested to DTS 01:91) prevents corrosion of the cable armour by ensuring that moisture cannot track around the cable gland threads and into the armour termination body. As an internally enclosed deluge seal the 'O' ring is protected from mechanical damage and harmful UV rays.

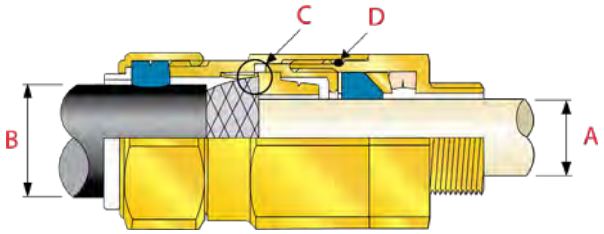
SELECTING THE CORRECT CABLE GLAND & ACCESSORIES

The following steps together with the information throughout this catalogue will help to ensure that the CMP cable gland selected will be fit for purpose and perform to relevant specifications.

If you have any doubt, please contact CMP directly for further guidance or advice and we will be happy to provide assistance.

- Identify the type of cable to be used
- Check the construction, size and material properties of the cable

WHEN THE CABLE IS ARMOURED, CHECK THE FOLLOWING:



- The type and material of the cable armour*
- The short circuit fault current rating of the cable armour**
- The diameter of the inner bedding (where present) 'A'
- The diameter of the lead covering (where present)
- The size of the overall cable diameter 'B'
- The size and type of armour or braid (where present) 'C'

UNDERSTANDING THE INSTALLATION; CHECK THE FOLLOWING:

- Any special environmental requirements in relation to corrosion protection
- The material of the mating electrical enclosures to eliminate dissimilar metals where possible
- Whether any protective plating or coating is required to be applied to the cable gland, e.g. nickel plating
- The type and size of the cable entry hole in the mating electrical equipment
- The wall thickness of the enclosure or gland plate, as a longer cable gland thread may be required
- The ingress protection rating of the electrical equipment or site standard required to be maintained
- Whether a single seal or double seal cable gland is required
- If an entry thread sealing washer is required to meet the ingress protection rating
- If there is a deluge protection requirement 'D'
- If fixing accessories such as locknuts and serrated washers are required
- If an earth tag is required**
- If shrouds are required
- If a thread conversion adaptor/reducer is required to complete the installation
- If any stopper plugs are required to close unused cable entries

For installations in explosive atmospheres, special considerations should be taken into account to ensure compliance with national or international standard codes of practice.

ACCESSORY SELECTION

In addition to entry thread sealing washers, CMP also provides locknuts, earth tags, serrated washers and shrouds as required, which should be used as appropriate to the installation standard or equipment configuration.

These CMP accessories may be critical to the safety of the installation and overall performance, so it is vital that the accessories are correctly specified and installed. Accessories are not typically included with cable glands as standard, unless a cable gland pack/kit is ordered (see our Accessories on page 162).

In order to maintain product warranty it is vital that genuine CMP accessories are used for installation of CMP cable glands. Compatibility of material selection, short circuit rating (in the case of earth tags) and sealing performance (in the case of sealing washers) cannot be guaranteed if accessories from other sources are used.

*If the cable armour is of a non-standard material, e.g. Aluminium Wire Armour, it may be necessary to consider an alternative cable gland material, e.g. Aluminium.

**For certain medium voltage and high voltage cables CIEL cable glands may be required (see page 54).

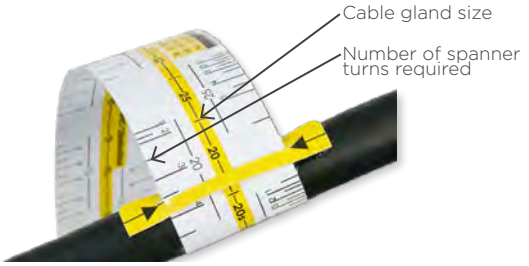
MAINTAINING THE INTEGRITY OF THE INSTALLATION

SEALING PERFORMANCE

The continuing technical integrity of installations requires significant attention to detail in sealing ring suitability, reliability and functional performance. Three things that can affect this performance include the choice of materials, cable sealing design, and an effective and validated testing programme. Examples of testing include thermal endurance, ingress protection and cable anchorage, twist and pull out resistance tests.

CMP Products has excelled in this process and offers the widest temperature rating of any standard cable gland (-60°C to +130°C), CMP cable glands are third-party certified to EN/IEC 62444, IEC 60079, UL 514B and are included in the London Underground register of products (LUL). This allows customers to make selection decisions safe in the knowledge that nothing has been left to chance.

The unique CMP Outer Seal Tightening Guide (OSTG) shown below allows the user to determine the number of turns that should be applied to the sealing ring, in order to ensure the correct installation is achieved. The OSTG also has the added feature of verifying the recommended cable gland size for the section of cable to be used.



ARMOUR CLAMPING - RIGHT-FIRST-TIME

The CMP armour clamping technique offers a level of reliability, and inspectability, that is unrivalled. The armour cone and AnyWay™ clamping ring are designed to be fully tightened, metal-to-metal, in a 'right-first-time' termination that securely captivates the armour wires in the crimping process.

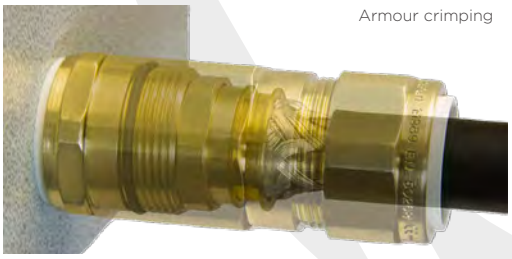
The internal armour termination is engineered to secure on installation for the life-time of the product, providing added cable security. They are designed to terminate a range of armour sizes in all available forms including single wire armour, pliable wire armour, wire braid, strip and tape armours. The specific ranges shown on the product pages of this catalogue indicate which armour cone should be used for a given armour type, size and application.

CMP's SWA armour cone clamping ranges closely follow the specified armour wire criteria in IEC 60502-1, as well as BS & AS/NZS standards. However in cases where the cable is non-standard, alternative armour clamping components for oversized and undersized armour wires are available upon request.

More information on products for use with non-standard armour wire products please see page 13.

RELIABLE EARTH CONTINUITY

Potential equalisation, or equipotential bonding, could be adversely affected by cable glands that either do not clamp the armoured cables effectively, or otherwise suffer from self-loosening. CMP's armour clamping method ensures that a low impedance 360° termination is created, which does not suffer from self-loosening and


Armour crimping

in turn facilitates a reliable earth path. As shown below, the armour clamping maintains guaranteed cable security and earth continuity for the life-time of the cable gland.

MAINTAINING INGRESS PROTECTION

Accessories are available to maintain the Ingress Protection (IP) level of the cable gland and enclosure.

Parallel Threads - For Explosive Atmospheres, IEC 60079-14 states that when the cable entry is via a parallel threaded hole, it is possible to achieve an ingress protection rating of IP54 without a sealing washer being used, provided that the threaded enclosure or cable gland plate is a minimum of 6 mm thick, and the axis of the cable entry is perpendicular to the enclosure or cable gland plate.

For enclosures with a parallel threaded hole that require an IP55, IP65 or IP66 level of ingress protection, a CMP nylon entry thread sealing washer must be used; without this sealing washer, the desired level of protection is unlikely to be maintained between the cable gland and the enclosure.

To achieve and maintain ingress protection ratings of IP67 or IP68, a CMP nylon entry thread sealing washer must be used and the cable gland must be rated for the application (1).

Tapered Threads - When cable glands with tapered threads are installed into taper threaded holes, an entry thread sealing washer cannot be fitted due to the conical nature of the thread; IP66 will be maintained with no additional sealing if the connection is 'wrench tight' (2) but to achieve and maintain ingress protection ratings of IP67 or IP68, thread grease must be used on tapered threads and the cable gland must be rated for the application (1) (2).

Clearance Holes - Where the cable entry is via a through or punched clearance hole and the application requires an IP54, IP55, IP65 or IP66 level of ingress protection, a CMP nylon entry thread sealing washer must be used; without this sealing washer, the desired level of protection is unlikely to be maintained between the cable gland and the enclosure.

To achieve and maintain ingress protection ratings of IP67 or IP68, a CMP nylon entry thread sealing washer must be used and the cable gland must be rated for the application (1).

Note: Some CMP products are available with integrated 'O' ring interface seals which perform an identical function to CMP nylon entry thread seals.

For best long term ingress protection performance and integrity CMP Products recommends its nylon entry thread sealing washers. Fibre sealing washers can be supplied upon request but will not perform as well in hostile conditions.

(1) If terminating armoured cable an additional deluge seal is required to protect the armour termination.
(2) The mating female thread must be machined with the full female thread depth, in compliance with the dimensions and tolerances detailed in the NPT Thread Standard ANSI / ASME B1.20.1-2013. It should be noted that all female NPT threads of and product supplied by CMP are machined in full compliance with this Standard.

TYPICAL INSTALLATION CONFIGURATIONS

The illustrations provided below are indicative of some of the common methods of installation configurations adopted. These are for informative guidance only and relevant site conditions along with any specified national or international codes of practice must always take precedence.

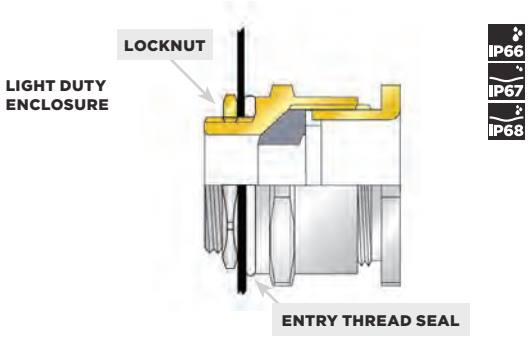
The accessories available offer a wide, flexible approach in mounting, sealing and earth connection provision. Selection and installation according to the engineering specification may vary from these illustrations.

PARALLEL THREADED CABLE GLAND THROUGH CLEARANCE HOLE

Earth continuity may be achieved **via earth tag when required**

Locknut	3.2mm
Sealing washer	2.0mm
16 Gauge stainless steel enclosure wall	1.6mm
Total	**6.8mm**

(Cable gland thread length = 10.0mm)

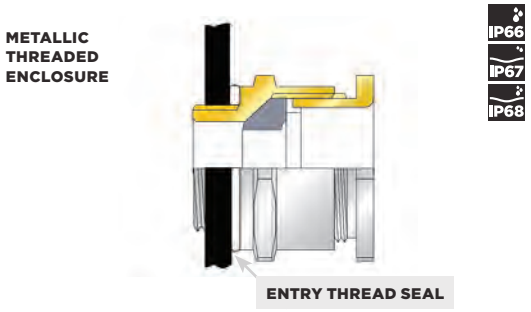


PARALLEL THREADED CABLE GLAND INTO A THREADED ENCLOSURE

Earth continuity may be achieved **via threaded entry or earth tag when required**

Sealing washer	2.0mm
Brass gland plate	6.0mm
Total	**8.0mm**

(Cable gland thread length = 10.0mm)

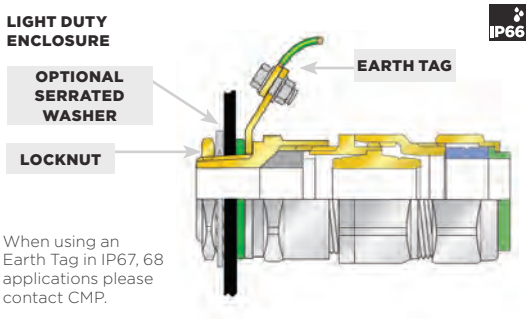


TAPER THREADED CABLE GLAND THROUGH CLEARANCE HOLE

Earth continuity may be achieved **via earth tag when required**

Locknut	4.75mm
Serrated washer	3.70mm
Sealing washer	2.00mm
Earth tag	1.50mm
10 Gauge galvanised steel enclosure wall	3.50mm
Total	**15.45mm**

(Cable gland thread length = 19.9mm)

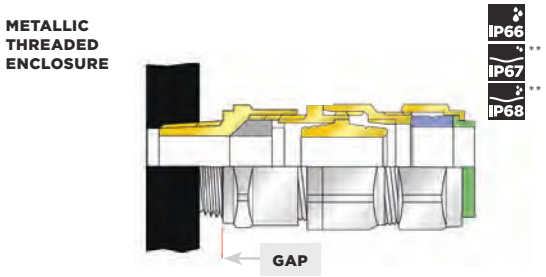


When using an Earth Tag in IP67, 68 applications please contact CMP.

TAPER THREADED CABLE GLAND INTO A THREADED ENCLOSURE

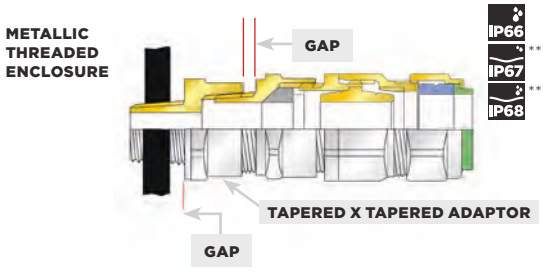
Earth continuity achieved **via threaded entry**

Note that care needs to be taken to ensure that the cables are protected as they pass into the enclosure when the wall section is greater than the cable gland thread length



TAPERED X TAPERED ADAPTOR INTO THREADED ENCLOSURE

Earth continuity achieved **via threaded entry or earth tag when required**

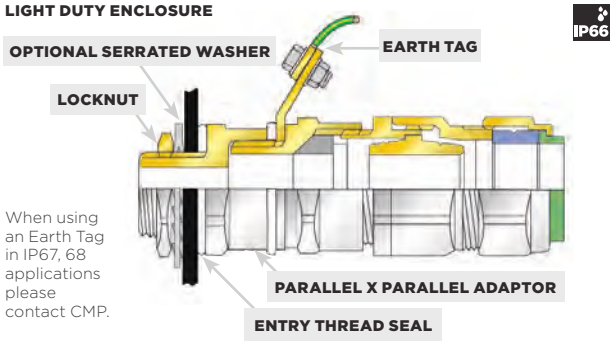


PARALLEL X PARALLEL ADAPTOR THROUGH CLEARANCE HOLE

Earth continuity may be achieved **via earth tag when required**

Locknut	3.2mm
Serrated washer	3.3mm
Sealing washer	2.0mm
16 Gauge stainless steel enclosure wall	1.6mm
Total	**10.1mm**

(Cable gland thread length = 15.0mm)

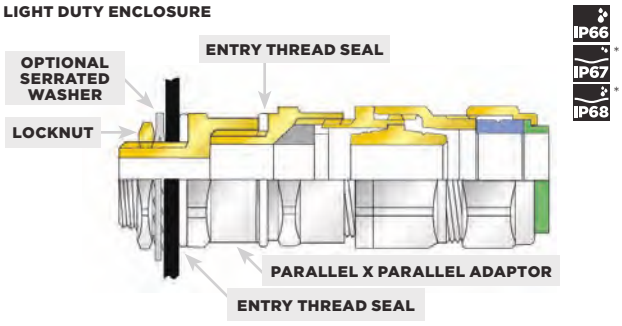


PARALLEL X PARALLEL ADAPTOR THROUGH CLEARANCE HOLE

Earth continuity may be achieved **via or earth tag when required**

Locknut	3.2mm
Serrated washer	3.3mm
Sealing washer	2.0mm
16 Gauge stainless steel enclosure wall	1.6mm
Total	**10.1mm**

(Cable gland thread length = 15.0mm)

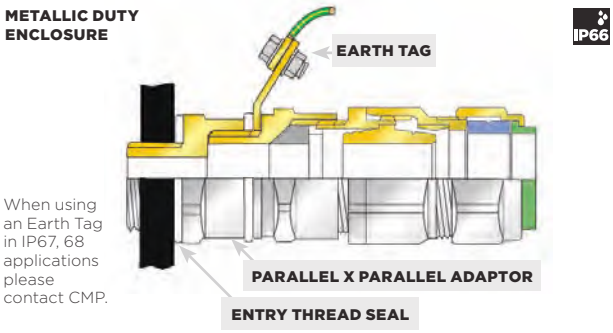


PARALLEL X PARALLEL ADAPTOR INTO THREADED ENCLOSURE

Earth continuity may be achieved **via threaded entry or earth tag when required**

Sealing washer	2.0mm
Enclosure wall	10.0mm
Total	**12.0mm**

(Cable gland thread length = 15.0mm)

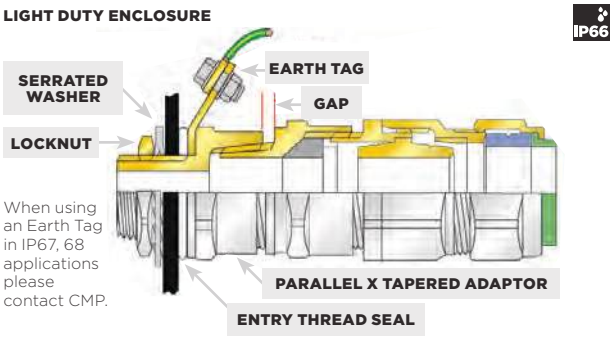


PARALLEL X TAPERED ADAPTOR THROUGH CLEARANCE HOLE

Earth continuity may be achieved **via threaded entry or earth tag when required**

Locknut	3.2mm
Serrated washer	3.3mm
Sealing washer	2.0mm
Earth tag	1.5mm
10 Gauge galvanised steel enclosure wall	3.5mm
Total	**13.5mm**

(Cable gland thread length = 15.0mm)

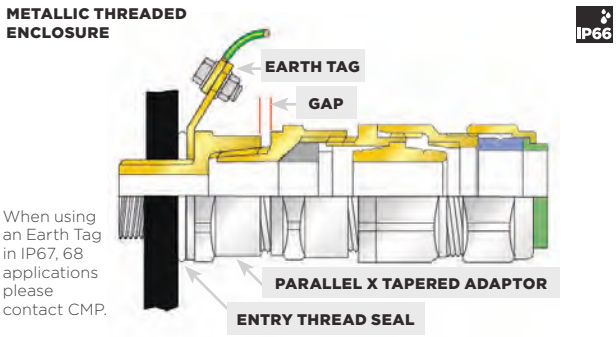


PARALLEL X TAPERED ADAPTOR INTO THREADED ENCLOSURE

Earth continuity may be achieved **via threaded entry or earth tag when required**

Sealing washer	2.0mm
Earth tag	1.5mm
Enclosure wall	7.5mm
Total	**11.0mm**

(Cable gland thread length = 15.0mm)



* IP67, IP68 Rating with deluge seal ** IP67, IP68 Rating with deluge seal and appropriate thread grease on tapered threads

CMP NPT threads do not require additional sealing for IP66 since a male CMP NPT thread fitted to an enlosure / equipment with a female NPT entry thread will maintain equipment Ingress Protection ratings of IP66 without additional sealing (1), provided CMP Installation Fitting Instructions are followed and the threads are 'wrench tight'.
(1) The mating female thread must be machined with the full female thread depth, in compliance with the dimensions and tolerances detailed in the NPT Thread Standard ANSI/ASME B1.20.1:2013. It should be noted that all female NPT threads of any product supplied by CMP are machined in full compliance with this Standard.


CMP

HOW TO ORDER

Please contact CMP Products for all ordering queries.

Each product page in this catalogue includes a cable gland selection table showing the part number; typically of a standard product, for ordering purposes. The part number is composed of the CMP size, type number, and standard suffix. The default material is normally brass and the thread type is metric. The basic part number would reflect this unless one or more suffixes are added to the part number changing the material or the thread type and size, as demonstrated below.

The ordering system shown below is correct for the majority of CMP's cable glands (BW, TMC, TMCX, TMC2, TMC2X, TC, A2RC, A2FRC, PXRC, A2FFC) use an alternative ordering system, please refer to the individual product page. 'Standard' cable gland with 'global' certification marking does not include TC RU (Russia, Kazakhstan) or INMETRO (Brazilian) certification details.

A CMP Products size 20 T3CDS cable gland in nickel plated brass with a ½" NPT entry thread ordering example is shown.

EXAMPLE ORDERING

20 T3CDS	1	RA	5	3	1
Size Product Type	Supply type	Suffix	Material	Entry thread type	Entry thread size
	Cable gland	Standard cable glands	Nickel Plated Brass	NPT	½"

CABLE GLAND SIZE / TYPE	DESIGN OPTIONS (IF APPLICABLE)		SUPPLY TYPE		CMP SUFFIX		MATERIAL		ENTRY THREAD TYPE		ENTRY THREAD SIZE***			
												METRIC †	NPT BSPP BSPT NPSM	IMPERIAL ELECTRICAL THREAD (E.T.)	PG ††
e.g. 20T3CDS	D	Deluge seal	1	Cable gland	RA	Standard cable gland	0 or **	Brass	**	Metric	1A		⅜"	½"	7
e.g. 40PX2K	C	Cast Integral Earth Lug (CIEL)	2	Cable gland pack *	RA/M	Group I Mining certified cable gland	1	Aluminium	1	Imperial Electrical Thread (E.T.)	1	M16	½"	⅝"	9
e.g. 50SCW	R	Equipment interface 'O' ring seal ('R' placed before gland size)			RA/B	Brazilian certified cable gland	2	Nylon	2	PG	2	M20	¾"	¾"	11
e.g. 25CXT					RU	Russian certified cable gland	3	Mild steel	3	NPT	3	M25	1"	1"	13.5
					RD	Supplied with ingress disc	4	Stainless steel	4	BSPP	4	M32	1 ¼"	1 ¼"	16
					RE	Alternative cone for smaller diameter SWA	5	Nickel plated brass	5	NPSM	5	M40	1 ½"	1 ½"	21
					RB	Alternative cone for larger diameter SWA			6	BSPT	6	M50	2"	2"	29
											7	M63	2 ½"	2 ½ "	36
											8	M75	3"	3"	42
											9	M90	3 ½"	3½"	48
											10	M100	4"	4"	-
											11	M115	-	-	-
											12	M130	5"	5"	-

* Cable gland packs are available with various accessories included providing either one or two terminations per pack.
Please contact CMP for further information.

** No suffix required when brass metric cable glands are ordered. Digit '0' is only applied to brass product when the thread type is other than metric e.g. 20A2F1RA032

*** Other thread sizes available upon request.

† Metric entry thread suffix only applicable to conduit connection cable glands, thread converters and stopper plugs.

†† PG threads are not included in cable gland standard EN 62444 but may be placed on the market in EU for installation refurbishment or replacement.

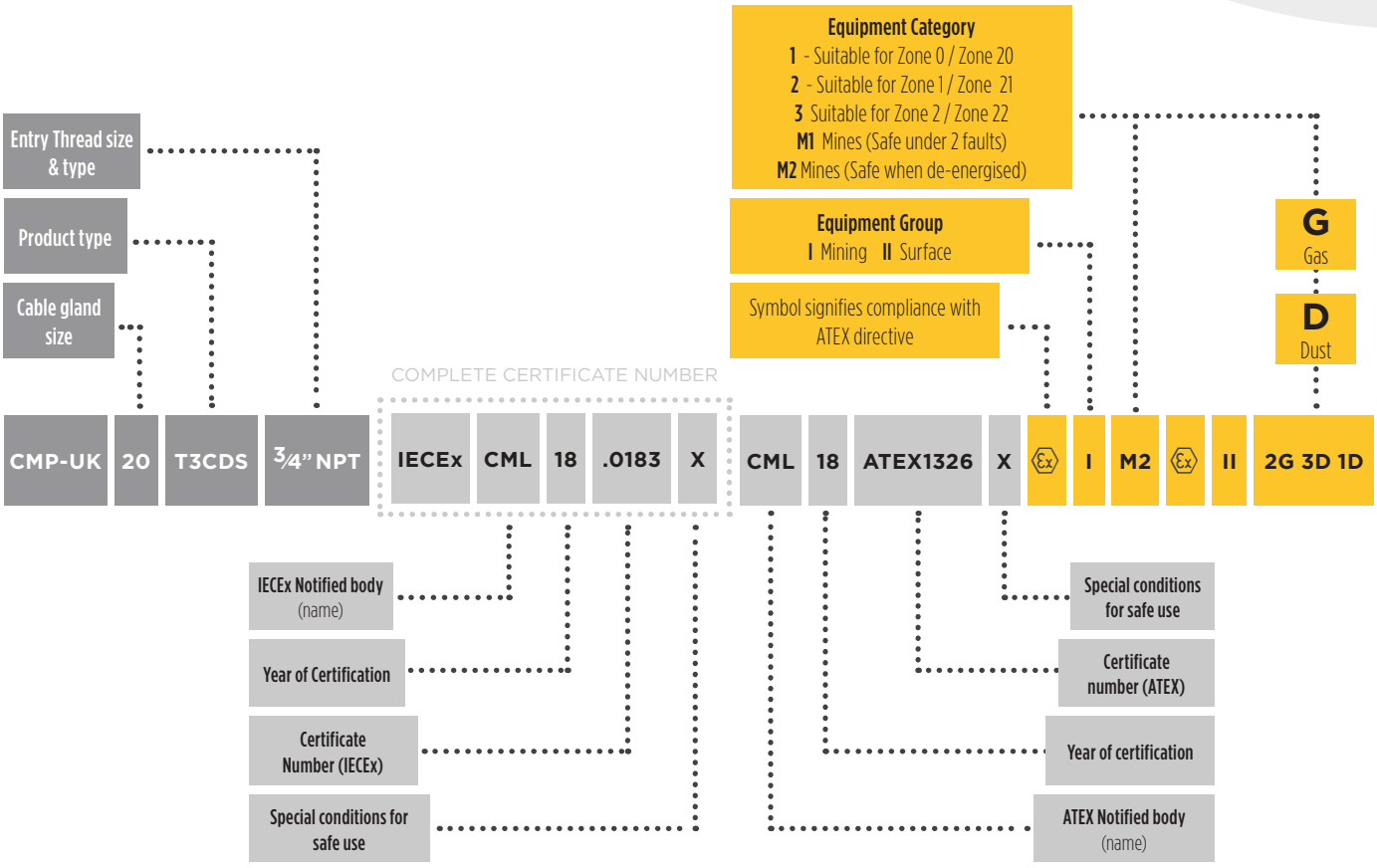
CMP PRODUCT MARKING

CMP's cable glands may be identified through permanent marking on the body of the gland. This provides installers and inspectors with information on the properties and certification details of the specific product. To illustrate this, the example below uses a standard Triton CDS (T3CDS) NPT nickel plated brass cable gland. Page 11 shows the first two lines of the product certification according to IEC and ATEX, Page 12 shows the product certification according to NEC and CEC.

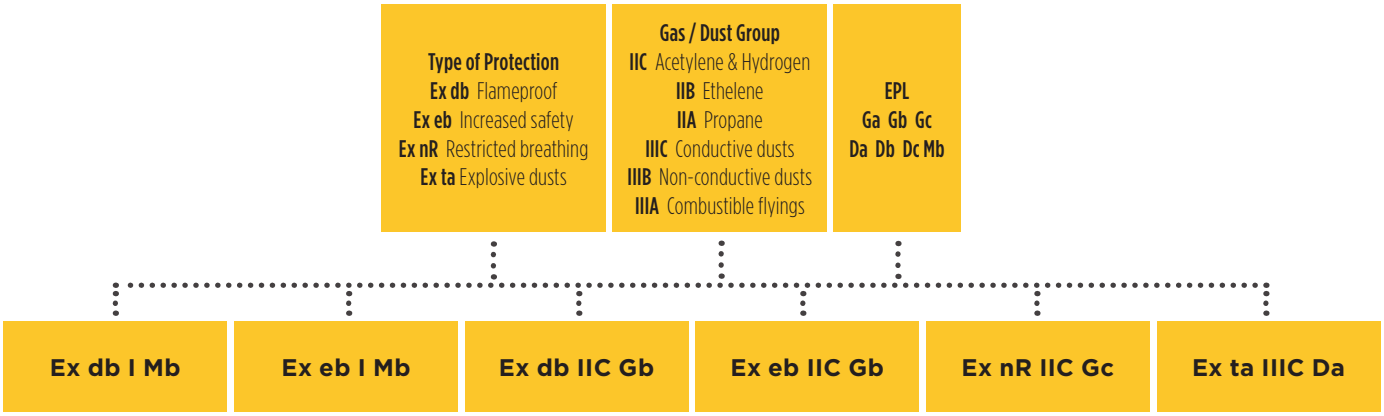
20T3CDS1RA532:

LINE 1 - CMP-UK 20 T3CDS ¾" NPT IECEx CML 18.0183X CML 18ATEX1326X Ex I M2 Ex II 2G 3G 1D
LINE 2 - Ex db I Mb/Ex eb I Mb/Ex db IIC Gb/Ex eb IIC Gb/Ex nR IIC Gc/Ex ta IIIC Da
LINE 3 - CSA 02.1310517X CL I DIV 2 ABCD, Ex d IIC CL II DIV 2 EFG, CL III, A/Ex e II, A/Ex nR II
LINE 4 - CL I Zn 1 AEx e II TYPE 4X OIL RES II -60° +130°C CE 2776 IP66/67/68

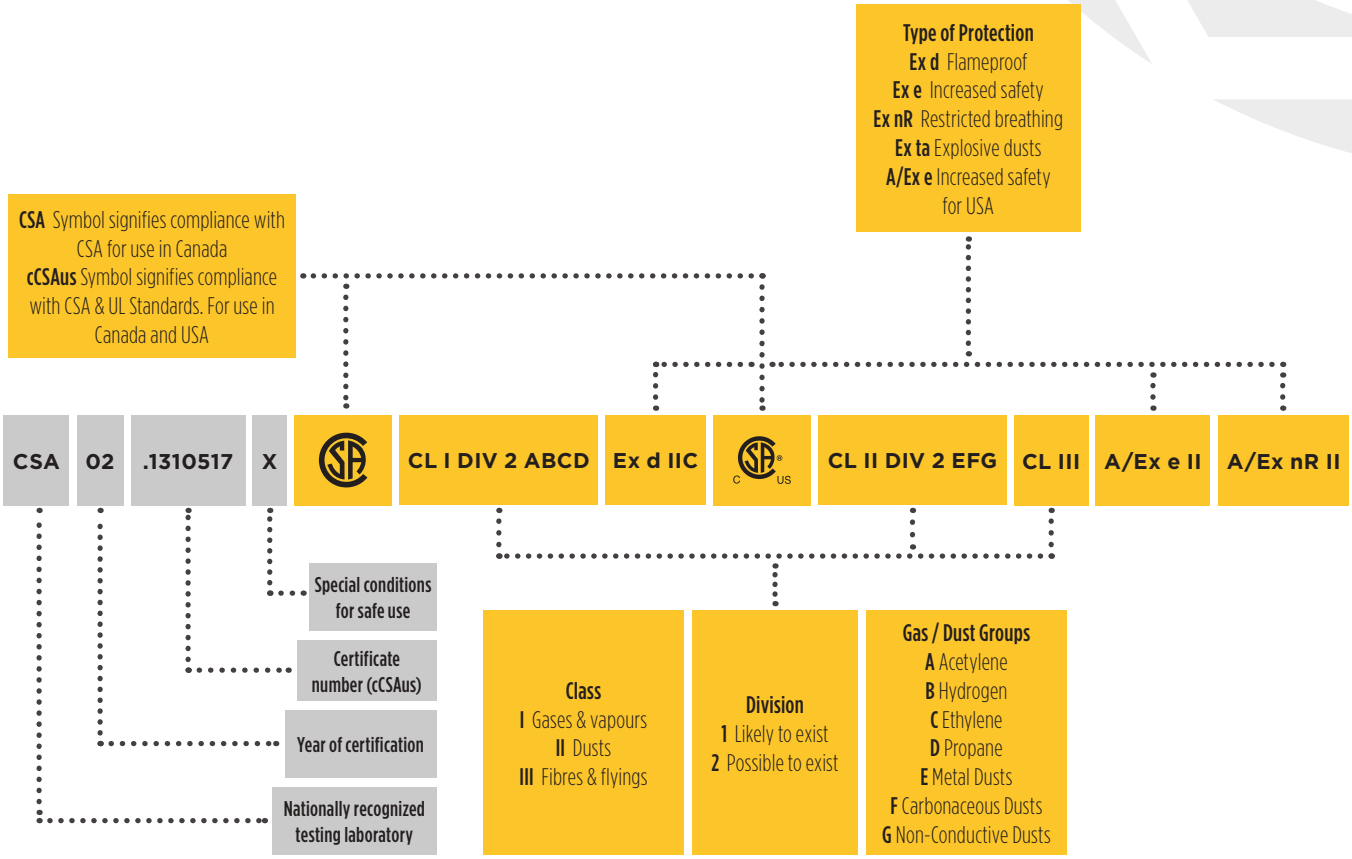
LINE 1 - IECEx AND ATEX



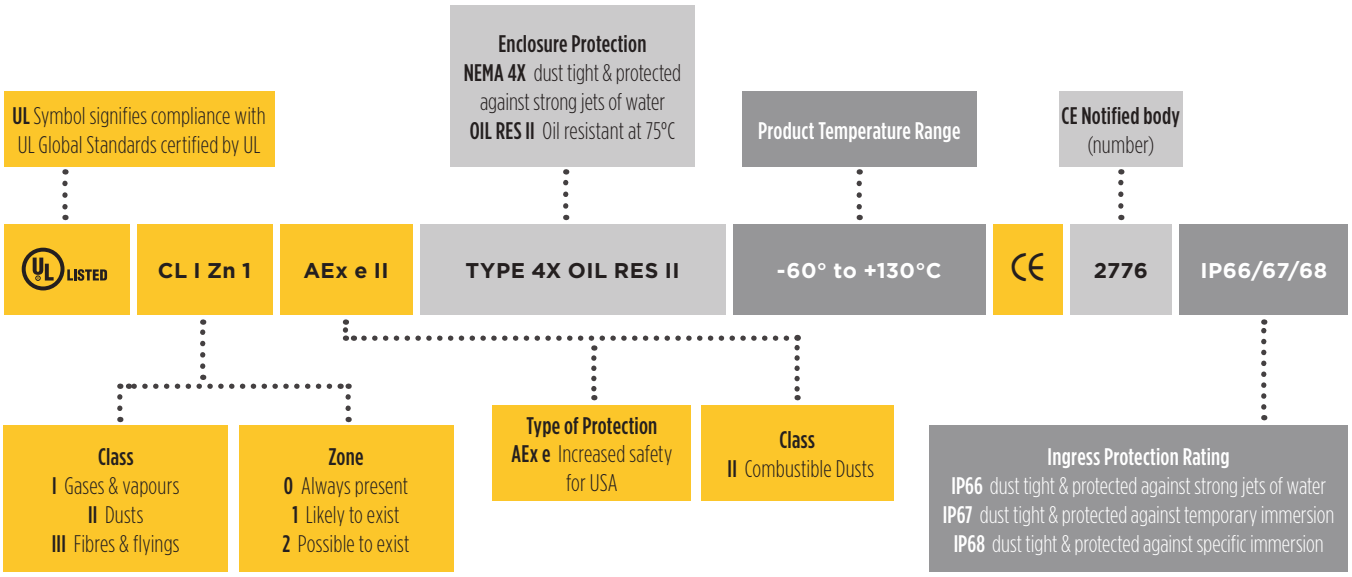
LINE 2 - IECEx AND ATEX



LINE 3 - cCSAus



LINE 4 - UL AND CE



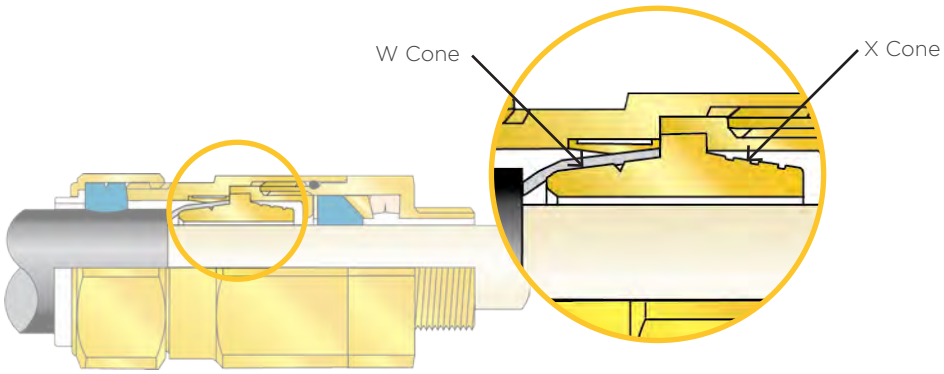
NON-STANDARD SINGLE ARMOUR WIRES

CMP also provides alternative cable glands for when the cable armour wires are outside of the standard range.

This is especially true for single wire armour cables (SWA) where a change in the wire size can affect the cable gland selection. IEC 60502-1 outlines the nominal wire sizes that should be used in relation to the cable bedding diameter when there is a variation in the armour wire thickness. There are two possible, and different outcomes, one being a different nominal size of wire is used in the cable manufacture, and another being the nominal wire thickness being over or under size. Details of these alternatives are included in the table below.

CABLE GLAND SIZE	EXAMPLE ORDERING REFERENCE*	ARMOUR RANGE STANDARD W CONE '1RA'		ARMOUR RANGE STANDARD X CONE '1RA'		ARMOUR RANGE UNDERSIZE '1RE'		ARMOUR RANGE OVERSIZE '1RB'	
		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
20S16	20S16T3CDS1RA	0.8	1.25	0.3	1.0	0.7	1.15	1.15	1.6
20S	20ST3CDS1RA	0.8	1.25	0.3	1.0	0.7	1.15	1.15	1.6
20	20T3CDS1RA	0.8	1.25	0.4	1.0	0.7	1.15	1.15	1.6
25S	25ST3CDS1RA	1.25	1.6	0.4	1.2	0.77	1.22	1.63	2.13
25	25T3CDS1RA	1.25	1.6	0.4	1.2	0.77	1.22	1.63	2.13
32	32T3CDS1RA	1.6	2.0	0.4	1.2	1.12	1.62	2.0	2.6
40	40T3CDS1RA	1.6	2.0	0.4	1.6	1.12	1.62	2.0	2.6
50S	50ST3CDS1RA	2.0	2.5	0.4	1.6	1.33	2.0	2.4	3.1
50	50T3CDS1RA	2.0	2.5	0.6	1.6	1.33	2.0	2.4	3.1
63S	63ST3CDS1RA	2.0	2.5	0.6	1.6	1.33	2.0	2.4	3.1
63	63T3CDS1RA	2.0	2.5	0.6	1.6	1.33	2.0	2.4	3.1
75S	75ST3CDS1RA	2.0	2.5	0.6	1.6	1.33	2.0	2.4	3.1
75	75T3CDS1RA	2.5	3.0	0.6	1.6	1.83	2.53	2.8	3.5
90	90T3CDS1RA	3.15	4.0	0.8	1.6	2.0	3.2	3.6	4.3
100	100T3CDS1RA	3.15	4.0	0.8	1.6	2.0	3.2	3.6	4.3
115	115T3CDS1RA	3.15	4.0	0.8	1.6	2.0	3.2	3.6	4.3
130	130T3CDS1RA	3.15	4.0	0.8	1.6	2.0	3.2	3.6	4.3
All dimension shown are in millimetres unless otherwise stated									
*Example ordering reference, T3CDS reference should be replaced by ordered Cable Gland.									
1RA suffix should be replaced with reference depending on armour size needed. 1RA=Armour range standard, 1RE=Armour range undersized, 1RB=Armour range oversized									

CABLE GLAND EXAMPLES	ARMOUR RANGE STANDARD W CONE '1RA'	ARMOUR RANGE STANDARD X CONE '1RA'	ARMOUR RANGE UNDERSIZE '1RE'	ARMOUR RANGE OVERSIZE '1RB'
CW / CX	20CW1RA	20CX1RA	20CW1RE	20CW1RB
E1U	20E1U1RA	20E1U1RA	20E1U1RE	20E1U1RB
E1FW / E1FX	20E1FW1RA	20E1FX1RA	20E1FW1RE	20E1FW1RB
PX2K	20PX2K1RA	20PX2K1RA	20PX2K1RE	20PX2K1RB
PX2KREX	20PX2KREX1RA	20PX2KREX1RA	20PX2KREX1RE	20PX2KREX1RB
T3CDS	20T3CDS1RA	20T3CDS1RA	20T3CDS1RE	20T3CDS1RB
Brass M20 shown as example				



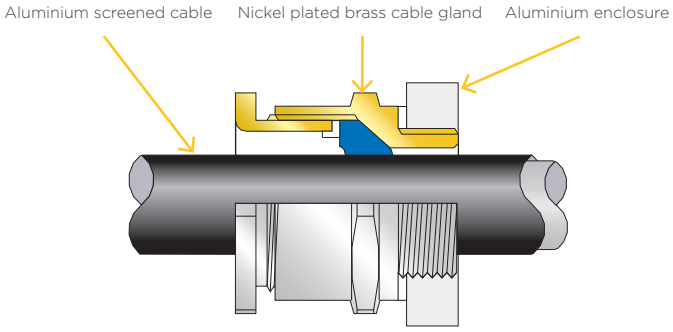
CMP T3CDS cable gland showing reversible armour cone referenced in table above (available in all universal CMP armoured cable glands)

CABLE GLAND AND ENCLOSURE MATERIAL SELECTION

The specific conditions of any installation will play a major part in the selection of the cable gland material, taking into account the level of environmental exposure, along with the nature of the enclosure and cable armour material.

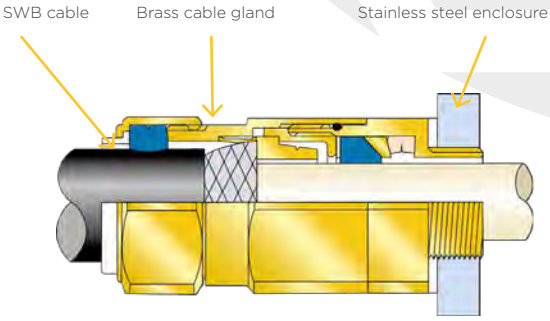
The following table is offered as a guide to operations under normal conditions. Subject to there being no adverse environmental conditions, this table can be used to determine the cable gland (or adaptor) material recommended by CMP. The diagrams below illustrate some typical options.

Example 1



Typical feedthrough cable

Example 2



Typical metallic cable layer in contact with cable gland

CABLE TYPE	ENCLOSURE / GLAND PLATE MATERIAL				
	ALUMINIUM	BRASS	STAINLESS STEEL	STEEL	NON-METALLIC
FEEDTHROUGH CABLE ARRANGEMENT*	Suggested cable gland / adaptor material options				
UNARMOURED E.G. PVC/XLPE, OR ANY SCREENED CABLE WITH METALLIC SCREEN	Example 1				
METALLIC CABLE LAYERS IN CONTACT WITH CABLE GLAND	Suggested cable gland / adaptor material options				
ALUMINIUM ARMOUR E.G. AWA, ASA, ATA					
STEEL ARMOUR E.G. GSWA, SWA, STA					
STEEL WIRE BRAID E.G. SWB, GSWB			Example 2		
STAINLESS STEEL WIRE BRAID E.G. SSWB					
BRONZE WIRE ARMOUR / BRAID E.G. BWB					
BRASS TAPE, SCREEN OR ARMOUR					
COPPER SCREEN E.G. CWB, TCWB, CTS, CWS					

Aluminium cable gland

Stainless steel cable gland

Nickel plated brass cable gland

Brass cable gland

Non-metallic cable gland

* This feedthrough arrangement would involve the whole cable passing inside the enclosure without any metalllic layers being in contact with the cable gland. Any screens or other metallic layers needing to be earthed would be earthed or grounded inside the enclosure.

INDUSTRIAL CABLE GLAND MATRIX

Browse from our range of industrial cable glands available for use on a wide range of cable types, including armoured and unarmoured and are available in brass, nickel plated brass and stainless steel.

CABLE TYPES

	CABLE GLAND TYPE	PAGE	UNARMOURED CABLES				ARMOURED CABLES		
			NORMAL	LEAD SHEATHED	CONDUIT CONNECTION	FLAT FORM CABLE	SINGLE WIRE ARMOUR**	WIRE BRAID	STEEL TAPE ARMOUR
UNARMOURED	A2	26	■						
	A2RC	27	■		■				
	SS2KGP	29	■						
	SS2KGPPB	30	■	■					
	TSP	39	■						
	TSM	41	■						
	TSPV0	43	■						
	A2FF	125				■			
SWA & AWA	BW	21					■		
	BWL	22					■		
	C2KGP	23					■	■	■
	CW	24					■		
	E1U	31					■	■	■
	E2U	32					■	■	■
	E1W	33					■		
	E2W	34					■		
BRAIDS & TAPES	C2KGP	23					■	■	■
	CX	25					■	■	■
	CXT	28						■	
	E1U	31					■	■	■
	E2U	32					■	■	■
	E1X	35						■	■
	E2X	36					■	■	■
	TSX	44						■	
	TSZ	45						■	■

STANDARD
OPTION

FEATURES

ARMOURED CABLES			SEALING TECHNIQUE				HIGH TEMPERATURE OPTION AVAILABLE	ENVIRONMENTAL PROTECTION				
STRIP ARMOUR	PLIABLE WIRE ARMOUR	LEAD SHEATHED	NO SEAL	INNER SEAL	OUTER SEAL	DELUGE 'O' RING SEAL		IP66	IP67	IP68*	IP69K	CERTIFIED DELUGE PROOF
					■		■	■	■	■		■
					■			■				
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* IP68 ratings are qualified with depth of water and duration of test. Please refer to individual product pages
** Single Wire Armour includes both Steel Wire Armour and Aluminium Wire Armour

EXPLOSIVE ATMOSPHERE CABLE GLAND MATRIX

Browse from our range of flameproof and explosion-proof cable glands covering multiple-certification in various situations including ATEX, IECEx, CSA and UL.

CABLE TYPES

	CABLE GLAND TYPE		PAGE	UNARMOURED CABLES						ARMOURED CABLES			
				NORMAL	LEAD SHEATHED	CONDUIT CONNECTION	FLEXIBLE CONDUIT CONNECTION	HOSE CONNECTION	FLAT FORM CABLE	SINGLE WIRE ARMOUR**	WIRE BRAID	STEEL TAPE ARMOUR	STRIP ARMOUR
UNARMOURED	TSPE		40	■									
	TSME		42	■									
	TSX		44	■									
	TSZE		46	■									
	A2F		75	■									
	A2FRC		80	■		■							
	A2FFC		79	■			■						
	A2E		76	■									
	RA2E		77	■									
	SS2K		81	■									
	SS2KTA (TAPE ARMOUR GLAND)		83									■	
	SS2KPB		82		■								
	PXSS2K	BARRIER	111	■									
	PXRC	BARRIER	112	■		■							
	PXSS2KREX	BARRIER	102	■									
	PXRCREX	BARRIER	104	■		■							
	PXSS2KREXHC***	BARRIER	103	■				■					
	A2FFF		126						■				
	A2FHC***		130	■				■					
SWA & AWA	T3CDS		69							■	■	■	■
	T3CDSPB		70							■	■	■	■
	C2K		84							■	■	■	■
	CWE		86							■			
	TE1FU		87							■	■	■	■
	TE1FUPB		88							■	■	■	■
	E1FU		89							■	■	■	■
	E2FU		90							■	■	■	■
	E1FW		93							■			
	E2FW		94							■			
	PX2K	BARRIER	107							■	■	■	■
	PX2KW	BARRIER	109							■			
	PX2KPB	BARRIER	110							■	■	■	■
	PX2KREX	BARRIER	98							■	■	■	■
	PX2KWREX	BARRIER	99							■			
BRAIDS & TAPES	T3CDS		69							■	■	■	■
	T3CDSPB		70							■	■	■	■
	C2K		84							■	■	■	■
	CXE		85							■	■	■	■
	TE1FU		87							■	■	■	■
	TE1FUPB		88							■	■	■	■
	E1FU		89							■	■	■	■
	E2FU		90							■	■	■	■
	E1FX		91							■	■	■	■
	E2FX		92							■	■	■	■
	C2KX		156							■	■	■	■
	PX2K	BARRIER	107							■	■	■	■
	PX2KX	BARRIER	108							■	■	■	■
	PX2KPB	BARRIER	110							■	■	■	■
	PX2KREX	BARRIER	98							■	■	■	■
	PX2KXREX	BARRIER	100							■	■	■	■

DELUGE PROTECTED EXPLOSIVE ATMOSPHERE EXPLOSIVE ATMOSPHERE BARRIER

STANDARD
OPTION

FEATURES

			SEALING TECHNIQUE						HIGH TEMPERATURE OPTION AVAILABLE	ENVIRONMENTAL PROTECTION					Ex db IIC Gb	Ex eb IIC Gb	Ex nR IIC GC	Ex ta IIIC Da
	PLIABLE WIRE ARMOUR	LEAD SHEATHED	INNER SEAL	INNER COMPENSATING DISPLACEMENT SEAL (CDS)	OUTER SEAL	EPOXY BARRIER SEAL	RAPIDEX LIQUID RESIN SEAL	DELUGE 'O' RING SEAL		IP66	IP67	IP68*	IP69K	CERTIFIED DELUGE PROOF				
					■					■	■	■	■	■	■	■	■	■
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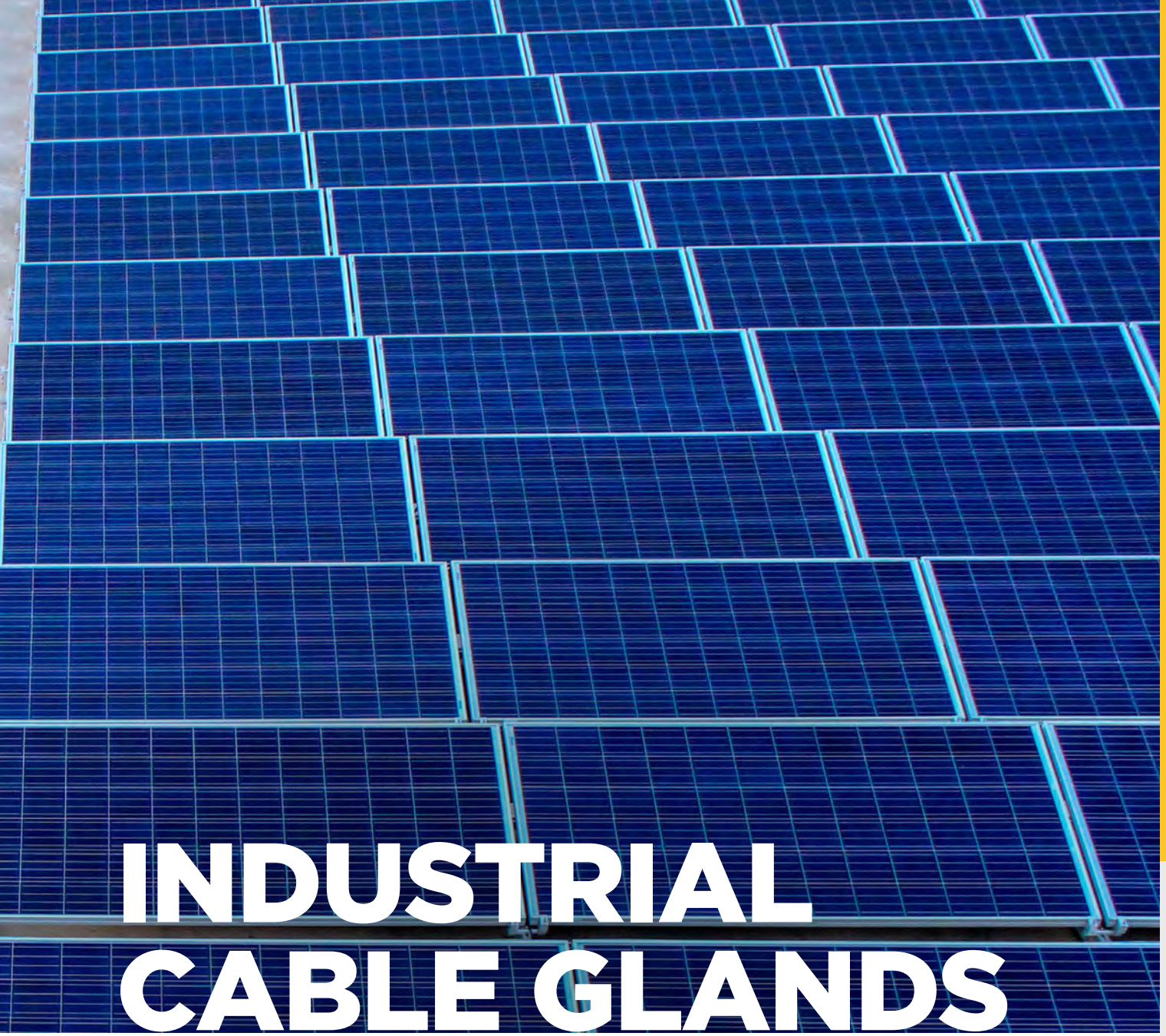
* IP68 ratings are qualified with depth of water and duration of test. Please refer to individual product pages
** Single Wire Armour includes both Steel Wire Armour and Aluminium Wire Armour
***When used in Group II (overground)



INDUSTRIAL CABLE GLANDS

The CMP Products range of industrial cable glands contains products used in a wide and diverse variety of market sectors, in conjunction with virtually every kind of industrial cable installation. With a wealth of experience in terminating all types of armoured and unarmoured cables CMP understands that when it comes to such critical installations, quality and reliability really do count.

Cable gland options for all types of cables are available in a wide range of sizes and are supplied in a variety of thread forms. These are available in various materials including brass, electroless nickel plated brass, aluminium and stainless steel. Significantly the brass grade used in the production of all CMP brass cable glands is CuZn39Pb3 (CW614N) to BS EN 12164:2011/ BS EN 12168:2011.

CMP designs and manufactures cable glands conforming to the prevailing industry standards including EN/IEC 62444 and the more rigorous BS 6121.

The range includes a host of globally recognised approvals, manufactured under a third party certified Integrated Management System (QHSE IMS) conforming to ISO 9001: 2015, ISO 14001: 2015 and ISO 45001: 2018.

The cable glands in the following section are shown in nickel plated brass. Alternative materials are available.

BW

BW INDUSTRIAL CABLE GLAND

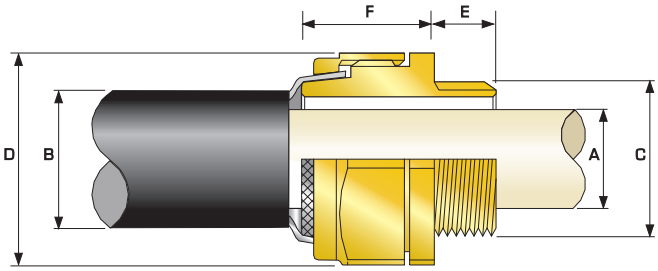
FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- High quality durable materials
- Simple, effective two part arrangement
- Direct and remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- -60˚C to +200˚C
- Superior EMC performance

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules)
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP2X
CABLE GLAND MATERIAL	Brass
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
ARMOUR CLAMPING	Two Part Armour Lock
CABLE GLAND KITS AVAILABLE	Cable Gland Kit for use with all types of SWA cable, including 2 Brass Cable Glands, 2 Steel Locknuts, 2 Brass Earth Tags and 2 PVC Shrouds for sizes up to and including 32mm. For sizes 40mm and above each kit includes 1 of each component.

*Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444. As IEC 62444 and EN 62444 do not cover cable glands which are supplied without cable sealing rings, the information provided here is for information only. ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)		CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'	ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	MAX	MAX	MIN	MAX	MAX	MAX			
20S	BW	1AA	M20	10.0	11.7	15.8	0.8	1.25	22.0	24.2	18.5	PVC04	0.052
20	BW	1AA	M20	10.0	14.0	21.1	0.8	1.25	28.0	30.8	22.5	PVC05	0.088
25	BW	1AA	M25	10.0	20.0	27.2	1.25	1.6	33.0	36.3	21.5	PVC07	0.110
32	BW	1AA	M32	10.0	26.3	34.1	1.6	2.0	41.0	45.1	22.5	PVC10	0.149
40	BW	1AA	M40	15.0	32.2	42.4	1.6	2.0	50.0	55.0	30.0	PVC13	0.316
50S	BW	1AA	M50	15.0	38.2	50.1	2.0	2.5	57.1	62.8	30.0	PVC16	0.468
50	BW	1AA	M50	15.0	44.1	55.7	2.0	2.5	65.0	71.5	32.0	PVC19	0.477
63S	BW	1AA	M63	15.0	50.0	62.4	2.0	2.5	75.0	82.5	41.3	PVC23	0.632
63	BW	1AA	M63	15.0	56.0	68.2	2.0	2.5	79.0	86.9	41.3	PVC24	0.890
75S	BW	1AA	M75	15.0	62.0	76.8	2.0	2.5	89.0	97.9	47.6	PVC27	1.268
75	BW	1AA	M75	15.0	68.0	82.9	2.5	3.0	95.0	104.5	49.6	PVC29	1.400

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'

Example: 32BW1AA5 = Nickel Plated Brass

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

BWL

BWL HEAVY DUTY INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

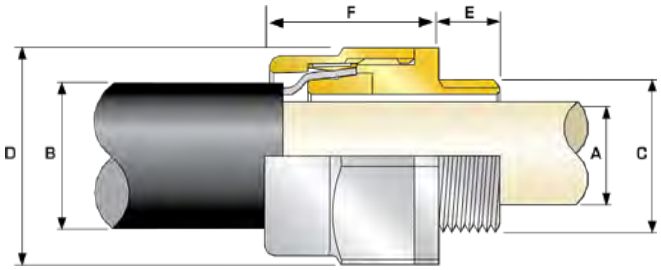
- High quality durable materials
- Simple, effective two part arrangement
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Robust, heavy duty design
- Longer body protects armour wires from impact
- -60˚C to +200˚C
- Superior EMC performance

EMC +200˚C -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121: Part 1: 1989
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules)
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP2X
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)		CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'	ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	MAX	MAX	MIN	MAX	MAX	MAX			
20S16	BWL	1RA	M20	10.0	8.7	13.2	0.8	1.25	24.0	26.4	35.2	PVC04	0.084
20S	BWL	1RA	M20	10.0	11.7	15.9	0.8	1.25	24.0	26.4	32.2	PVC04	0.076
20	BWL	1RA	M20	10.0	14.0	20.9	0.8	1.25	30.5	33.6	30.6	PVC06	0.117
25	BWL	1RA	M25	10.0	20.0	26.2	1.25	1.6	36.0	39.6	36.4	PVC09	0.155
32	BWL	1RA	M32	10.0	26.3	33.9	1.6	2.0	46.0	50.6	32.6	PVC11	0.220
40	BWL	1RA	M40	15.0	32.2	40.4	1.6	2.0	55.0	60.5	36.6	PVC15	0.370
50S	BWL	1RA	M50	15.0	38.2	46.7	2.0	2.5	60.0	66.0	39.6	PVC18	0.468
50	BWL	1RA	M50	15.0	44.1	53.1	2.0	2.5	70.1	77.1	39.1	PVC21	0.434
63S	BWL	1RA	M63	15.0	50.0	59.4	2.0	2.5	75.0	82.5	52.0	PVC23	0.846
63	BWL	1RA	M63	15.0	56.0	65.9	2.0	2.5	80.0	88.0	49.8	PVC25	0.818
75S	BWL	1RA	M75	15.0	62.0	72.1	2.0	2.5	90.0	99.0	63.7	PVC28	1.486
75	BWL	1RA	M75	15.0	68.0	78.5	2.5	3.0	100.0	110.0	57.3	PVC30	1.662
90	BWL	1RA	M90	24.0	80.0	90.4	3.15	4.0	114.3	125.7	66.6	PVC32	2.460

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'

Example: 32BWL1RA5 = Nickel Plated Brass

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

C2KGP

C2KGP SINGLE SEAL INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

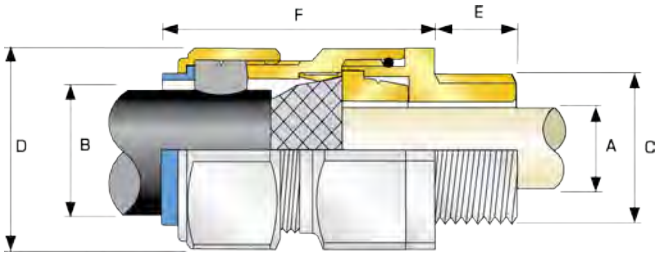
- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- -60˚C to +130˚C
- Superior EMC performance

IP66 IP67 IP68 DELUGE PROTECTED EMC +130˚C -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Wire Braid Armour, Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Reversible Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid Armour cables. Tapes can also be doubled over. For cables that have only a single layer of Armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminum Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)		CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
								GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	C2KGP	1RA	M20	10.0	8.7	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	65.0	PVC04	0.23
20S	C2KGP	1RA	M20	10.0	11.7	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	62.0	PVC04	0.22
20	C2KGP	1RA	M20	10.0	14.0	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	PVC06	0.22
25S	C2KGP	1RA	M25	10.0	20.0	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.35
25	C2KGP	1RA	M25	10.0	20.0	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.35
32	C2KGP	1RA	M32	10.0	26.3	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	PVC11	0.55
40	C2KGP	1RA	M40	15.0	32.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	PVC15	0.75
50S	C2KGP	1RA	M50	15.0	38.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	PVC18	0.86
50	C2KGP	1RA	M50	15.0	44.1	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	77.0	PVC21	1.13
63S	C2KGP	1RA	M63	15.0	50.0	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	80.0	PVC23	1.33
63	C2KGP	1RA	M63	15.0	56.0	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.0	PVC25	1.34
75S	C2KGP	1RA	M75	15.0	62.0	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	87.0	PVC28	2.02
75	C2KGP	1RA	M75	15.0	68.0	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.0	PVC30	2.48
90	C2KGP	1RA	M90	24.0	80.0	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.0	PVC32	3.52
100	C2KGP	1RA	M100	24.0	91.0	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	LSF33	4.57
115	C2KGP	1RA	M115	24.0	98.0	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	114.0	LSF34	6.50
130	C2KGP	1RA	M130	24.0	115.0	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	114.0	LSF35	8.50

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38,3 ½" = 39, 4" = 310 (Brass requires prefix "0")

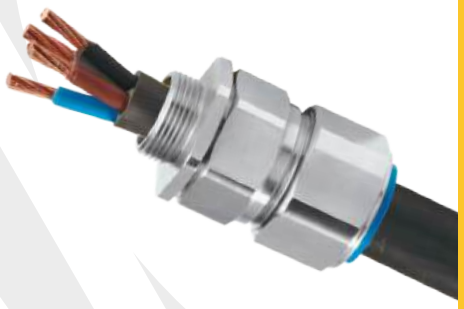
Examples: 32C2KGP1RA534 = Nickel Plated Brass 1¼" NPT, 50SC2KGP1RA035 = Brass 1½" NPT, 25C2KGP1RA432 = Stainless Steel ¾" NPT, 20C2KGP1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

CW

CW SINGLE SEAL INDUSTRIAL CABLE GLAND



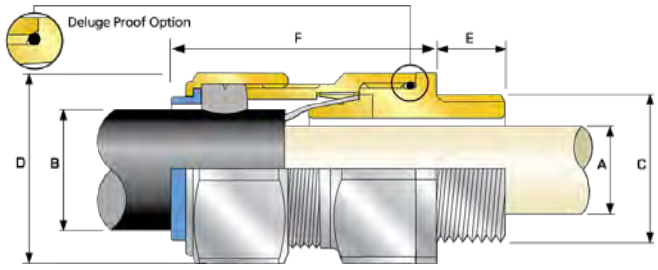
FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermIn option page 117)
- Deluge protection option
- Superior EMC performance

IP66 IP67 IP68 EMC +130˚C -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring
CABLE GLAND KITS AVAILABLE	Cable Gland kit for use with all types of SWA cable including 2 Brass Cable Glands, 2 Steel Locknuts, 2 Brass Earth Tags and 2 PVC Shrouds for sizes up to and including 32mm. For sizes 40mm and above each kit includes 1 of each component.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

Deluge Proof option available (CWD)

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION										
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	CW	1RA	M20	10.0	½"	19.9	¾"	8.7	6.1	13.1	0.8	1.25	24.0	26.4	48.0	PVC04	0.100
20S	CW	1RA	M20	10.0	½"	19.9	¾"	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	PVC04	0.140
20	CW	1RA	M20	10.0	½"	19.9	¾"	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	PVC06	0.180
25S	CW	1RA	M25	10.0	¾"	20.2	1"	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	PVC09	0.257
25	CW	1RA	M25	10.0	¾"	20.2	1"	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	PVC09	0.257
32	CW	1RA	M32	10.0	1"	25.0	1 ¼"	26.0	23.7	33.9	1.6	2.0	46.0	50.6	54.0	PVC11	0.376
40	CW	1RA	M40	15.0	1 ¼"	25.6	1 ½"	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	PVC15	0.630
50S	CW	1RA	M50	15.0	1 ½"	26.1	2"	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	PVC18	0.757
50	CW	1RA	M50	15.0	2"	26.9	2 ½"	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	PVC21	0.862
63S	CW	1RA	M63	15.0	2"	26.9	2 ½"	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	PVC23	1.390
63	CW	1RA	M63	15.0	2 ½"	39.9	3"	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	PVC25	1.360
75S	CW	1RA	M75	15.0	2 ½"	39.9	3"	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	PVC28	2.307
75	CW	1RA	M75	15.0	3"	41.5	3 ½"	64.2	66.7	78.4	2.5	3.0	100.0	110.0	82.0	PVC30	2.909
90	CW	1RA	M90	24.0	3 ½"	42.8	4"	78.6	76.2	90.3	3.15	4.0	114.3	125.7	95.0	PVC32	3.858
100	CW	1RA	M100	24.0	4"	44.0	5"	91.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	LSF33	4.958
115	CW	1RA	M115	24.0	4"	44.0	5"	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	LSF34	5.058
130	CW	1RA	M130	24.0	5"	46.8	-	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	LSF35	6.158

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38,3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 20CW1RA5 = Nickel Plated Brass M20, 50CW1RA = Brass 50mm, 25CW1RA4 = Stainless Steel 25mm

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

CX

CX SINGLE SEAL INDUSTRIAL CABLE GLAND

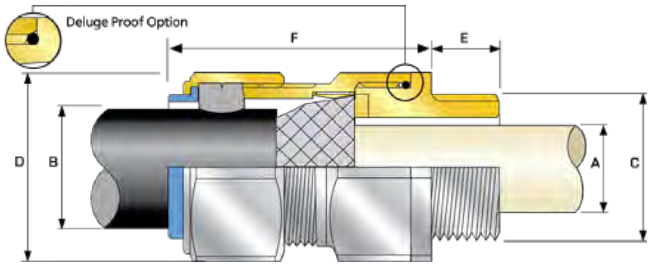
FOR BRAID, PLIABLE WIRE & STEEL TAPE ARMOURED CABLES

- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer 'load retention' seal
- Unique OSTG prevents over tightening
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermIn option)
- Deluge protection option
- Superior EMC performance

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121: Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category A
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Wire Braid Armour, Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminum Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	CX	1RA	M20	10.0	8.7	6.1	13.1	0.3	1.0	24.0	26.4	48.0	PVC04	0.100
20S	CX	1RA	M20	10.0	11.7	9.5	15.9	0.3	1.0	24.0	26.4	48.0	PVC04	0.100
20	CX	1RA	M20	10.0	14.0	12.5	20.9	0.4	1.0	30.5	33.6	48.0	PVC06	0.147
25S	CX	1RA	M25	10.0	20.0	14.0	22.0	0.4	1.2	37.5	41.3	56.0	PVC09	0.224
25	CX	1RA	M25	10.0	20.0	18.2	26.2	0.4	1.2	37.5	41.3	56.0	PVC09	0.221
32	CX	1RA	M32	10.0	26.3	23.7	33.9	0.4	1.2	46.0	50.6	54.0	PVC11	0.306
40	CX	1RA	M40	15.0	32.2	27.9	40.4	0.4	1.6	55.0	60.5	58.0	PVC15	0.448
50S	CX	1RA	M50	15.0	38.2	35.2	46.7	0.4	1.6	60.0	66.0	61.0	PVC18	0.567
50	CX	1RA	M50	15.0	44.1	40.4	53.0	0.6	1.6	70.1	77.1	60.0	PVC21	0.751
63S	CX	1RA	M63	15.0	50.0	45.6	59.4	0.6	1.6	75.0	82.5	74.0	PVC23	1.036
63	CX	1RA	M63	15.0	56.0	54.6	65.8	0.6	1.6	80.0	88.0	71.0	PVC25	1.016
75S	CX	1RA	M75	15.0	62.0	59.0	72.0	0.6	1.6	90.0	99.0	86.0	PVC28	1.787
75	CX	1RA	M75	15.0	68.0	66.7	78.4	0.6	1.6	100.0	110.0	82.0	PVC30	2.091
90	CX	1RA	M90	24.0	80.0	76.2	90.3	0.8	1.6	114.3	125.7	95.0	PVC32	3.044
100	CX	1RA	M100	24.0	91.0	86.1	101.4	0.8	1.6	123.0	135.3	95.0	LSF33	3.132
115	CX	1RA	M115	24.0	98.0	101.5	110.2	0.8	1.6	133.4	146.7	107.5	LSF34	4.476
130	CX	1RA	M130	24.0	115.0	110.2	123.2	0.8	1.6	152.4	167.6	110.0	LSF35	5.761

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38,3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32CX1RA534 = Nickel Plated Brass 1¼" NPT, 50SCX1RA035 = Brass 1½" NPT, 25CX1RA432 = Stainless Steel ¾" NPT, 20CX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

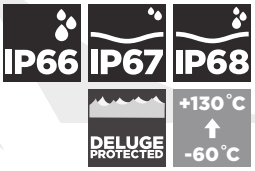
Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

A2

A2 SINGLE SEAL INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF UNAMOURED & BRAIDED CABLES

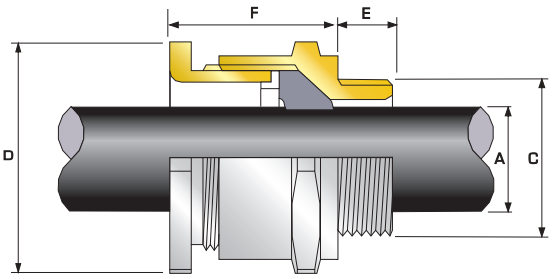
- High quality durable materials
- Robust, heavy duty design
- Displacement type seal
- Deluge protected
- -60˚C to +130˚C (standard), -20˚C to +200˚C (ThermIn option)



TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121: Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Unarmoured & Braided when terminated inside enclosure
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Cable Outer Sheath

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

GLOBAL PRODUCT CERTIFICATION	
CSA CERTIFICATE	1211841
CSA CODE OF PROTECTION	Enclosure Type 4X
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171, ABS: 16-LD1472056-PDA



COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MIN	MAX	MAX	MAX			
20S16	A2	1RA	M20	10.0	3.2	8.7	24.0	26.4	26.0	PVC04	0.070
20S	A2	1RA	M20	10.0	6.1	11.2	24.0	26.4	26.0	PVC04	0.060
20	A2	1RA	M20	10.0	6.5	14.0	27.0	29.7	27.7	PVC05	0.070
25	A2	1RA	M25	10.0	11.1	20.0	36.0	39.6	35.5	PVC09	0.130
32	A2	1RA	M32	10.0	17.0	26.3	41.0	45.1	35.1	PVC10	0.150
40	A2	1RA	M40	15.0	23.5	32.2	50.0	55.0	35.1	PVC13	0.200
50S	A2	1RA	M50	15.0	31.0	38.2	55.0	60.5	33.0	PVC15	0.260
50	A2	1RA	M50	15.0	35.6	44.0	60.0	66.0	37.3	PVC18	0.270
63S	A2	1RA	M63	15.0	41.5	49.9	70.5	77.6	33.5	PVC21	0.430
63	A2	1RA	M63	15.0	47.2	55.9	75.0	82.5	36.2	PVC23	0.460
75S	A2	1RA	M75	15.0	54.0	61.9	84.0	92.4	34.1	PVC24	0.520
75	A2	1RA	M75	15.0	61.1	67.9	84.0	92.4	40.9	PVC24	0.500
90	A2	1RA	M90	24.0	66.6	79.9	108.0	118.8	60.3	PVC31	1.600
100	A2	1RA	M100	24.0	76.0	91.0	123.0	135.3	57.2	LSF33	1.780
115	A2	1RA	M115	24.0	86.0	97.9	133.4	146.7	67.3	LSF34	2.670
130	A2	1RA	M130	24.0	97.0	114.9	152.4	167.6	74.7	LSF35	3.800

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38,3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32A21RA534 = Nickel Plated Brass 1¼" NPT, 50SA21RA035 = Brass 1½" NPT, 25A21RA432 = Stainless Steel ¾" NPT, 20A21RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

A2RC

A2RC INDUSTRIAL CABLE GLAND WITH CONDUIT CONNECTION FACILITY

FOR ALL TYPES OF UNARMOURED CABLES

- Designed for rigid and flexible conduits
- Easy install running coupler design
- Displacement type seal
- -60˚C to +130˚C

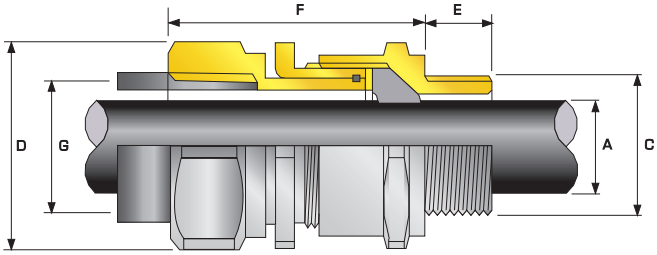
IP66

+130˚C
-60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Unarmoured
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
Alternative conduit sizes available upon request.
See 'thread option ordering examples' table below for typical NPT and Metric thread ordering references

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171



THREAD OPTION ORDERING EXAMPLES		
ORDERING REFERENCE	MALE THREAD	FEMALE THREAD
20A2RC1RA	M20	M20
20A2RC1RA0**31**	**M20**	**½" NPT**
20A2RC1RA0**3131**	**½" NPT**	**½" NPT**
20A2RC1RA0**3102**†	**½" NPT**	**M20**

Refer to 'How to order' page for complete list of ordering codes.
† For Metric female threads please insert '**0**' before thread size code e.g. 32A2RC1RA534**0**5 (1 ¼" NPT Male x M40 Female)

COMBINED ORDERING REFERENCE (*BRASS METRIC MALE & FEMALE)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	FEMALE CONDUIT CONNECTION (METRIC) 'G'	OPTION	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION						FEMALE CONDUIT CONNECTION (NPT) 'G'			
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX					
20S16	A2RC	1RA	M20	10.0	½"	19.9	¾"	3.2	8.7	24.0	26.4	M20	½"	46.9	PVC04	0.100
20S	A2RC	1RA	M20	10.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	M20	½"	46.1	PVC04	0.100
20	A2RC	1RA	M20	10.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	M20	½"	47.9	PVC05	0.100
25	A2RC	1RA	M25	10.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	M25	¾"	56.1	PVC09	0.190
32	A2RC	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	M32	1"	55.5	PVC10	0.230
40	A2RC	1RA	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	M40	1 ¼"	57.7	PVC13	0.330
50S	A2RC	1RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	M50	1 ½"	59.1	PVC15	0.430
50	A2RC	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	M50	2"	64.3	PVC18	0.440
63S	A2RC	1RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	M63	2"	61.6	PVC21	0.720
63	A2RC	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	M63	2 ½"	71.0	PVC23	0.640
75S	A2RC	1RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	M75	2 ½"	70.1	PVC24	0.900
75	A2RC	1RA	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	M75	3"	73.2	PVC26	0.800
90	A2RC	1RA	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	M90	3 ½"	106.3	PVC31	2.200

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT male and / or female options please add the following digits to the material suffix (See Thread Options table above) ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")
When NPT male & Metric female product option is required, please add the following digits to the material and NPT male suffix (See Thread Options table above) ;
M20 = 01, M25 = 02, M32 = 03, M40 = 04, M50 = 05, M63 = 06, M75 = 07, M90 = 08 (Brass requires prefix "0")

Examples: 32A2RC1RA533 = Nickel Plated Brass M32 male x 1" NPT female, 20S16A2RC1RA031 = Brass M20 male x ½" NPT female,
25A2RC1RA43203 = Stainless Steel ¾" NPT male x M25 female, 220A2RC1RA5 = Nickel Plated Brass M20 M20 male & female

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

CXT

CXT SINGLE SEAL INDUSTRIAL CABLE GLAND

FOR SCREENED FLEXIBLE (EMC) BRAIDED CABLES

- Easy install
- Mechanical retention of wire braid for electrical continuity
- Displacement type seal
- -60˚C to +130˚C
- Superior EMC performance

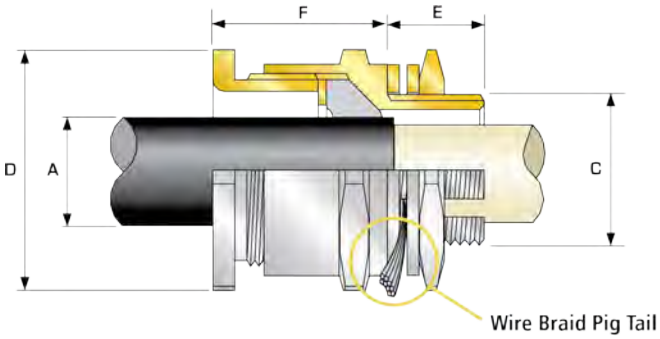
IP66

EMC +130˚C -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category A
INGRESS PROTECTION RATING**	IP66
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Wire Braid Armour
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Cable Outer Sheath
INCLUDED ACCESSORIES	Locknut & Washer

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
Supplied with Locknut & Washer

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492



COMBINED ORDERING REFERENCE			ENTRY THREAD 'C'	THREAD LENGTH (METRIC) 'E'	OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX			MIN	MAX	MAX	MAX			
20S16	CXT	1RA	M20	15.0	3.2	8.7	24.0	26.4	25.4	PVC04	0.070
20S	CXT	1RA	M20	15.0	6.1	11.7	24.0	26.4	25.4	PVC04	0.060
20	CXT	1RA	M20	15.0	6.5	14.0	27.0	29.7	27.2	PVC05	0.070
25	CXT	1RA	M25	15.0	11.1	20.0	36.0	39.6	36.3	PVC09	0.130
32	CXT	1RA	M32	15.0	17.0	26.3	41.0	45.1	34.5	PVC10	0.150
40	CXT	1RA	M40	15.0	23.5	32.2	50.0	55.0	35.6	PVC13	0.210
50S	CXT	1RA	M50	15.0	31.0	38.2	55.0	60.5	32.3	PVC15	0.260
50	CXT	1RA	M50	15.0	35.6	44.0	60.0	66.0	36.6	PVC18	0.270
63S	CXT	1RA	M63	15.0	41.5	49.9	70.5	77.6	33.5	PVC21	0.410
63	CXT	1RA	M63	15.0	47.2	55.9	75.0	82.5	35.8	PVC23	0.400
75S	CXT	1RA	M75	15.0	54.0	61.9	80.0	88.0	36.8	PVC25	0.530
75	CXT	1RA	M75	15.0	61.1	67.9	84.0	92.4	40.6	PVC26	0.500
90	CXT	1RA	M90	24.0	66.6	79.9	108.0	118.8	58.3	PVC31	1.600
100	CXT	1RA	M100	24.0	76.0	91.0	123.0	135.3	55.2	LSF33	1.780
115	CXT	1RA	M115	24.0	86.0	97.9	133.4	146.7	65.2	LSF34	2.670
130	CXT	1RA	M130	24.0	97.0	114.9	152.4	167.6	73.9	LSF35	3.800

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32CXT1RA534 = Nickel Plated Brass 1¼" NPT, 50SCXT1RA035 = Brass 1½" NPT, 25CXT1RA432 = Stainless Steel ¾" NPT, 20CXT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

SS2KGP

SS2KGP DOUBLE SEAL INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- Direct & remote installation
- Superior levels of cable retention
- Displacement type seals
- Deluge protected
- -60˚C to +130˚C

IP66 IP67 IP68

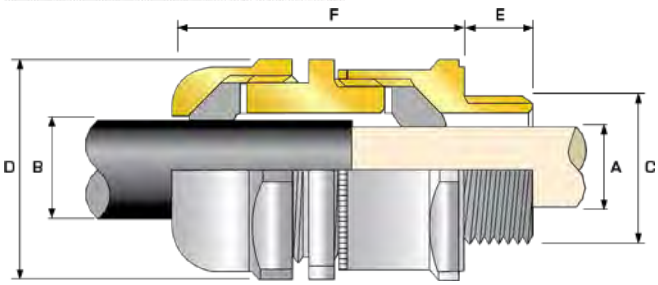
DELUGE PROTECTED

+130˚C -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Unarmoured
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER "A/B"		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION							
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX			
16	SS2KGP	1RA	M16	10.0	½"	19.9	¾"	3.2	8.6	24.0	26.4	49.0	PVC04	0.140
20S16	SS2KGP	1RA	M20	10.0	½"	19.9	¾"	3.2	8.6	24.0	26.4	49.0	PVC04	0.140
20S	SS2KGP	1RA	M20	10.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	49.0	PVC04	0.130
20	SS2KGP	1RA	M20	10.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	54.0	PVC05	0.160
25	SS2KGP	1RA	M25	10.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	66.0	PVC09	0.300
32	SS2KGP	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	67.0	PVC10	0.350
40	SS2KGP	1RA	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.1	50.0	55.0	70.0	PVC13	0.500
50S	SS2KGP	1RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	65.0	PVC15	0.560
50	SS2KGP	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	70.0	PVC18	0.590
63S	SS2KGP	1RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	70.0	PVC21	0.890
63	SS2KGP	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	71.0	PVC23	0.850
75S	SS2KGP	1RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	80.0	88.0	70.0	PVC25	1.020
75	SS2KGP	1RA	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	75.0	PVC26	0.990
90	SS2KGP	1RA	M90	24.0	3 ½"	42.8	4"	66.6	79.4	108.0	118.8	113.0	PVC31	2.990
100	SS2KGP	1RA	M100	24.0	4"	44.0	5"	76.0	90.9	123.0	134.2	106.0	LSF33	3.390
115	SS2KGP	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	128.0	LSF34	5.320
130	SS2KGP	1RA	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	129.0	LSF35	6.350

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32SS2KGP1RA534 = Nickel Plated Brass 1¼" NPT, 50SSS2KGP1RA035 = Brass 1½" NPT, 25SS2KGP1RA432 = Stainless Steel ¾" NPT, 20SS2KGP1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

SS2KGPPB

SS2KGPPB DOUBLE SEAL INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF LEAD SHEATHED UNARMOURED CABLES

- Effectively earths / grounds lead sheathed cables
- Suitable for Tape Armours
- Direct & remote installation
- Superior levels of cable retention
- Displacement type seals
- Deluge protected
- -60˚C to +130˚C

IP66 IP67 IP68

DELUGE PROTECTED

+130˚C -60˚C

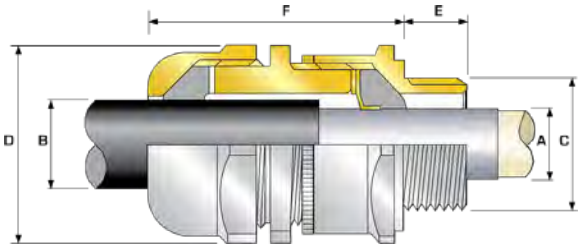
SS2KGPPB

INDUSTRIAL CABLE GLANDS

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Unarmoured Lead Sheathed, Steel Tape Armour (STA), Aluminium Tape Armour (ATA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Cable Inner Lead Sheath & Outer Sheath

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION									
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	SS2KGPPB	1RA	M20	10.0	½"	19.9	¾"	3.2	7.8	3.2	8.6	24.0	26.4	49.5	PVC04	0.140
20S	SS2KGPPB	1RA	M20	10.0	½"	19.9	¾"	6.1	11.0	6.1	11.7	24.0	26.4	49.5	PVC04	0.130
20	SS2KGPPB	1RA	M20	10.0	½"	19.9	¾"	6.5	13.4	6.5	14.0	27.0	29.7	54.5	PVC05	0.160
25	SS2KGPPB	1RA	M25	10.0	¾"	20.2	1"	11.1	19.3	11.1	20.0	36.0	39.6	66.5	PVC09	0.300
32	SS2KGPPB	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	25.5	17.0	26.3	41.0	45.1	67.5	PVC10	0.350
40	SS2KGPPB	1RA	M40	15.0	1 ¼"	25.6	1 ½"	23.5	31.2	23.5	32.1	50.0	55.0	70.5	PVC13	0.510
50S	SS2KGPPB	1RA	M50	15.0	1 ½"	26.1	2"	31.0	37.2	31.0	38.2	55.0	60.5	65.5	PVC15	0.570
50	SS2KGPPB	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	35.6	44.0	60.0	66.0	70.5	PVC18	0.600
63S	SS2KGPPB	1RA	M63	15.0	2"	26.9	2 ½"	41.5	48.5	41.5	49.9	70.5	77.6	70.5	PVC21	0.900
63	SS2KGPPB	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	47.2	55.9	75.0	82.5	71.5	PVC23	0.860
75S	SS2KGPPB	1RA	M75	15.0	2 ½"	39.9	3"	54.0	60.2	54.0	61.9	80.0	88.0	70.5	PVC25	1.030
75	SS2KGPPB	1RA	M75	15.0	3"	41.5	3 ½"	61.1	65.2	61.1	67.9	84.0	92.4	75.5	PVC26	1.000
90	SS2KGPPB	1RA	M90	24.0	3 ½"	42.8	4"	66.6	77.1	66.6	79.4	108.0	118.8	113.5	PVC31	3.010
100	SS2KGPPB	1RA	M100	24.0	3 ½"	42.8	4"	76.0	88.1	76.0	90.9	123.0	134.2	106.5	LSF33	3.410
115	SS2KGPPB	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	86.0	97.9	133.4	146.7	128.5	LSF34	5.350
130	SS2KGPPB	1RA	M130	24.0	5"	46.8	-	97.0	110.1	97.0	114.9	152.4	167.6	129.5	LSF35	6.390

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32SS2KGPPB1RA534 = Nickel Plated Brass 1¼" NPT, 50SSS2KGPPB1RA035 = Brass 1½" NPT, 25SS2KGPPB1RA432 = Stainless Steel ¾" NPT, 20SS2KGPPB1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

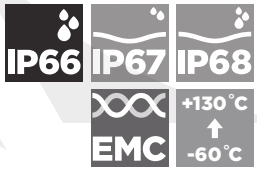
Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E1U

E1U DOUBLE SEAL INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

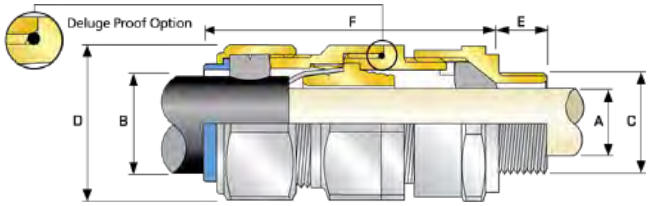
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermIn option page 116)
- Superior EMC performance



TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour, Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Armoured & Jacketed
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
ARMOUR CLAMPING	Reversible Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminum Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE†				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION					GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E1U	1RA	M20	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	72.5	PVC04	0.163
20S	E1U	1RA	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	70.0	PVC04	0.150
20	E1U	1RA	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	73.0	PVC06	0.210
25S	E1U	1RA	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.330
25	E1U	1RA	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.330
32	E1U	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	86.0	PVC11	0.430
40	E1U	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	90.0	PVC15	0.620
50S	E1U	1RA	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	91.0	PVC18	0.750
50	E1U	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	95.0	PVC21	0.950
63S	E1U	1RA	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.0	PVC23	1.340
63	E1U	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	104.0	PVC25	1.340
75S	E1U	1RA	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	115.0	PVC28	2.110
75	E1U	1RA	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	117.0	PVC30	2.420
90	E1U	1RA	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	114.3	125.4	147.0	PVC32	4.210
100	E1U	1RA	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	LSF33	4.450
115	E1U	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	162.0	LSF34	6.190
130	E1U	1RA	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	174.0	LSF35	8.340

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1U1RA534 = Nickel Plated Brass 1¼" NPT, 50SE1U1RA035 = Brass 1½" NPT, 20E1U1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E2U

E2U DOUBLE SEAL INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF LEAD SHEATHED ARMOURED CABLES

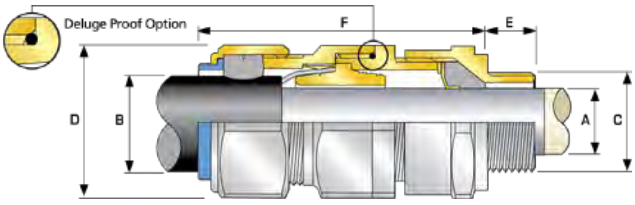
- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60˚C to +130˚C
- Superior EMC performance

IP66 IP67 IP68 EMC +130˚C -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
CABLE TYPE	Lead Sheathed & Single Wire Armour (LC/SWA), Lead Sheathed & Wire Braid Armour, Lead Sheathed & Steel Tape Armour (LC/STA), Lead Sheathed & Pliable Wire Armour (LC/PWA), Lead Sheathed & Strip Armour (LC/ASA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Lead Sheath & Outer Sheath
ARMOUR CLAMPING	Reversible Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminum Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION					GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E2U	1RA	M20	10.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	72.5	PVC04	0.160
20S	E2U	1RA	M20	10.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	70.0	PVC04	0.150
20	E2U	1RA	M20	10.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	73.0	PVC06	0.210
25S	E2U	1RA	M25	10.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.330
25	E2U	1RA	M25	10.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.330
32	E2U	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	86.0	PVC11	0.430
40	E2U	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	90.0	PVC15	0.620
50S	E2U	1RA	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	91.0	PVC18	0.750
50	E2U	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	95.0	PVC21	0.960
63S	E2U	1RA	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.0	PVC23	1.350
63	E2U	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	104.0	PVC25	1.350
75S	E2U	1RA	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	115.0	PVC28	2.120
75	E2U	1RA	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	117.0	PVC30	2.430
90	E2U	1RA	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	0.8	1.6	3.15	4.0	114.3	125.4	147.0	PVC32	4.230
100	E2U	1RA	M100	24.0	4"	44.0	5"	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	LSF33	4.470
115	E2U	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	162.0	LSF34	6.210
130	E2U	1RA	M130	24.0	5"	46.8	6"	97.0	110.1	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	174.0	LSF35	8.360

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E2U1RA534 = Nickel Plated Brass 1¼" NPT, 50SE2U1RA035 = Brass 1½" NPT, 20E2U1RA5 = Nickel Plated Brass M20

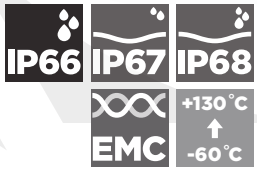
Dimensions are displayed in millimetres unless otherwise stated

E1W

E1W DOUBLE SEAL INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

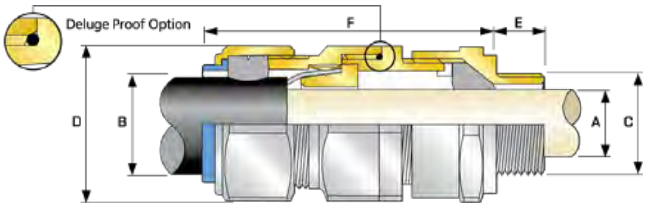
- Metal-to-metal armour clamping
- Direct and remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60˚C to +130˚C
- Superior EMC performance



TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Inner Displacement Seal and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION											
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
16	E1W	1RA	M16	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.8	1.25	24.0	26.4	72.5	PVC04	0.163
20S16	E1W	1RA	M20	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.8	1.25	24.0	26.4	72.5	PVC04	0.163
20S	E1W	1RA	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	PVC04	0.150
20	E1W	1RA	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	PVC06	0.210
25S	E1W	1RA	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	PVC09	0.330
25	E1W	1RA	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.330
32	E1W	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	PVC11	0.430
40	E1W	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	90.0	PVC15	0.620
50S	E1W	1RA	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	91.0	PVC18	0.750
50	E1W	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	95.0	PVC21	0.950
63S	E1W	1RA	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	102.0	PVC23	1.340
63	E1W	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	104.0	PVC25	1.340
75S	E1W	1RA	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	2.0	2.5	90.0	99.0	115.0	PVC28	2.110
75	E1W	1RA	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	2.5	3.0	100.0	110.0	117.0	PVC30	2.420
90	E1W	1RA	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	3.15	4.0	114.3	125.4	147.0	PVC32	4.210
100	E1W	1RA	M100	24.0	3 ½"	44.0	4"	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	LSF33	4.450
115	E1W	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	3.15	4.0	133.4	146.7	162.0	LSF34	6.190
130	E1W	1RA	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	174.0	LSF35	8.340

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38,3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32E1W1RA534 = Nickel Plated Brass 1¼" NPT, 50SE1W1RA035 = Brass 1½" NPT, 20E1W1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E2W

E2W DOUBLE SEAL INDUSTRIAL CABLE GLAND

FOR LEAD SHEATHED STEEL & ALUMINIUM WIRE ARMOURED CABLES

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60˚C to +130˚C
- Superior EMC performance

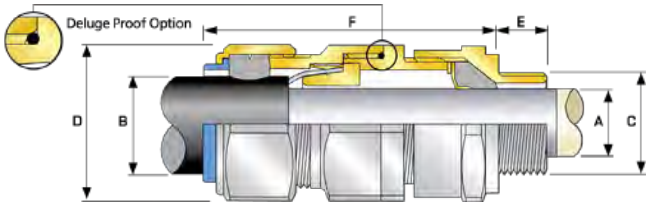
IP66 IP67 IP68

EMC +130˚C -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
CABLE TYPE	Lead Sheathed & Single Wire Armour (LC/SWA), Lead Sheathed & Aluminium Wire Armour (LC/AWA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION											
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E2W	1RA	M20	10.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.8	1.25	24.0	26.4	72.5	PVC04	0.160
20S	E2W	1RA	M20	10.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.8	1.25	24.0	26.4	70.0	PVC04	0.150
20	E2W	1RA	M20	10.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.8	1.25	30.5	33.6	73.0	PVC06	0.210
25S	E2W	1RA	M25	10.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	1.25	1.6	37.5	41.3	89.0	PVC09	0.330
25	E2W	1RA	M25	10.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.330
32	E2W	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	1.6	2.0	46.0	50.6	86.0	PVC11	0.430
40	E2W	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	1.6	2.0	55.0	60.5	90.0	PVC15	0.620
50S	E2W	1RA	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	2.0	2.5	60.0	66.0	91.0	PVC18	0.750
50	E2W	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	2.0	2.5	70.1	77.1	95.0	PVC21	0.950
63S	E2W	1RA	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	2.0	2.5	75.0	82.5	102.0	PVC23	1.340
63	E2W	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	2.0	2.5	80.0	88.0	104.0	PVC25	1.340
75S	E2W	1RA	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	2.0	2.5	90.0	99.0	115.0	PVC28	2.110
75	E2W	1RA	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	2.5	3.0	100.0	110.0	117.0	PVC30	2.420
90	E2W	1RA	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	3.15	4.0	114.3	125.4	147.0	PVC32	4.210
100	E2W	1RA	M100	24.0	4"	44.0	5"	76.0	88.1	86.1	101.4	3.15	4.0	123.0	135.3	140.0	LSF33	4.450
115	E2W	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	3.15	4.0	133.4	146.7	162.0	LSF34	6.190
130	E2W	1RA	M130	24.0	5"	46.8	6"	97.0	110.1	110.2	123.2	3.15	4.0	152.4	160.6	174.0	LSF35	8.340

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E2W1RA534 = Nickel Plated Brass 1¼" NPT, 50SE2W1RA035 = Brass 1½" NPT, 25E2W1RA432 = Stainless Steel ¾" NPT, 20E2W1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

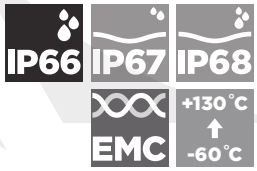
Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E1X

E1X DOUBLE SEAL INDUSTRIAL CABLE GLAND

FOR BRAIDED & STEEL TAPE ARMOURED CABLES

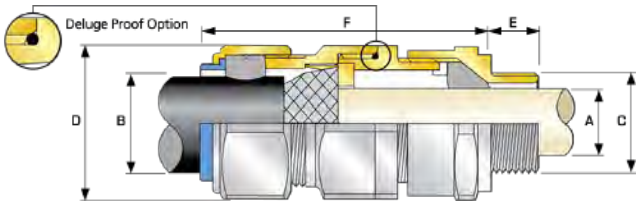
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60˚C to +130˚C
- Superior EMC performance



TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
CABLE TYPE	Wire Braid Armour, Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (e.g. ASA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. **If Tape Armour is to be used please contact CMP for advice.**

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION											
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E1X	1RA	M20	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	24.0	26.4	72.5	PVC04	0.163
20S	E1X	1RA	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	24.0	26.4	70.0	PVC04	0.150
20	E1X	1RA	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	30.5	33.6	73.0	PVC06	0.210
25S	E1X	1RA	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	37.5	41.3	89.0	PVC09	0.330
25	E1X	1RA	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	37.5	41.3	89.0	PVC09	0.330
32	E1X	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	46.0	50.6	86.0	PVC11	0.430
40	E1X	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	55.0	60.5	90.0	PVC15	0.620
50S	E1X	1RA	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	60.0	66.0	91.0	PVC18	0.750
50	E1X	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	70.1	77.1	95.0	PVC21	0.950
63S	E1X	1RA	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	75.0	82.5	102.0	PVC23	1.340
63	E1X	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	80.0	88.0	104.0	PVC25	1.340
75S	E1X	1RA	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	90.0	99.0	115.0	PVC28	2.110
75	E1X	1RA	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	100.0	110.0	117.0	PVC30	2.420
90	E1X	1RA	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	114.3	125.4	147.0	PVC32	4.210
100	E1X	1RA	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	0.8	1.6	123.0	135.3	140.0	LSF33	4.450
115	E1X	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	133.4	146.7	162.0	LSF34	6.190
130	E1X	1RA	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	0.8	1.6	152.4	160.6	174.0	LSF35	8.340

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1X1RA534 = Nickel Plated Brass 1¼" NPT, 50SE1X1RA035 = Brass 1½" NPT, 20E1X1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E2X

E2X DOUBLE SEAL INDUSTRIAL CABLE GLAND

FOR LEAD SHEATHED BRAIDED CABLES

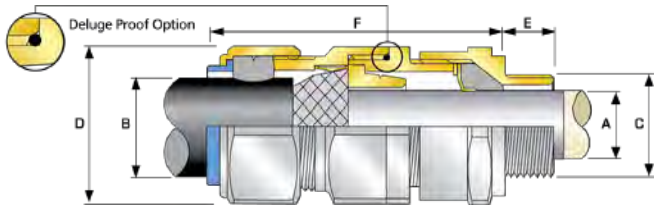
- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60˚C to +130˚C
- Superior EMC performance

IP66 IP67 IP68 EMC +130˚C -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
CABLE TYPE	Lead Sheathed & Wire Braid Armour, Lead Sheathed & Steel Tape Armour (LC/STA), Lead Sheathed & Pliable Wire Armour (LC/PWA), Lead Sheathed & Aluminium Strip Armour (LC/ASA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Lead Sheath & Outer Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. **If Tape Armour is to be used please contact CMP for advice.**

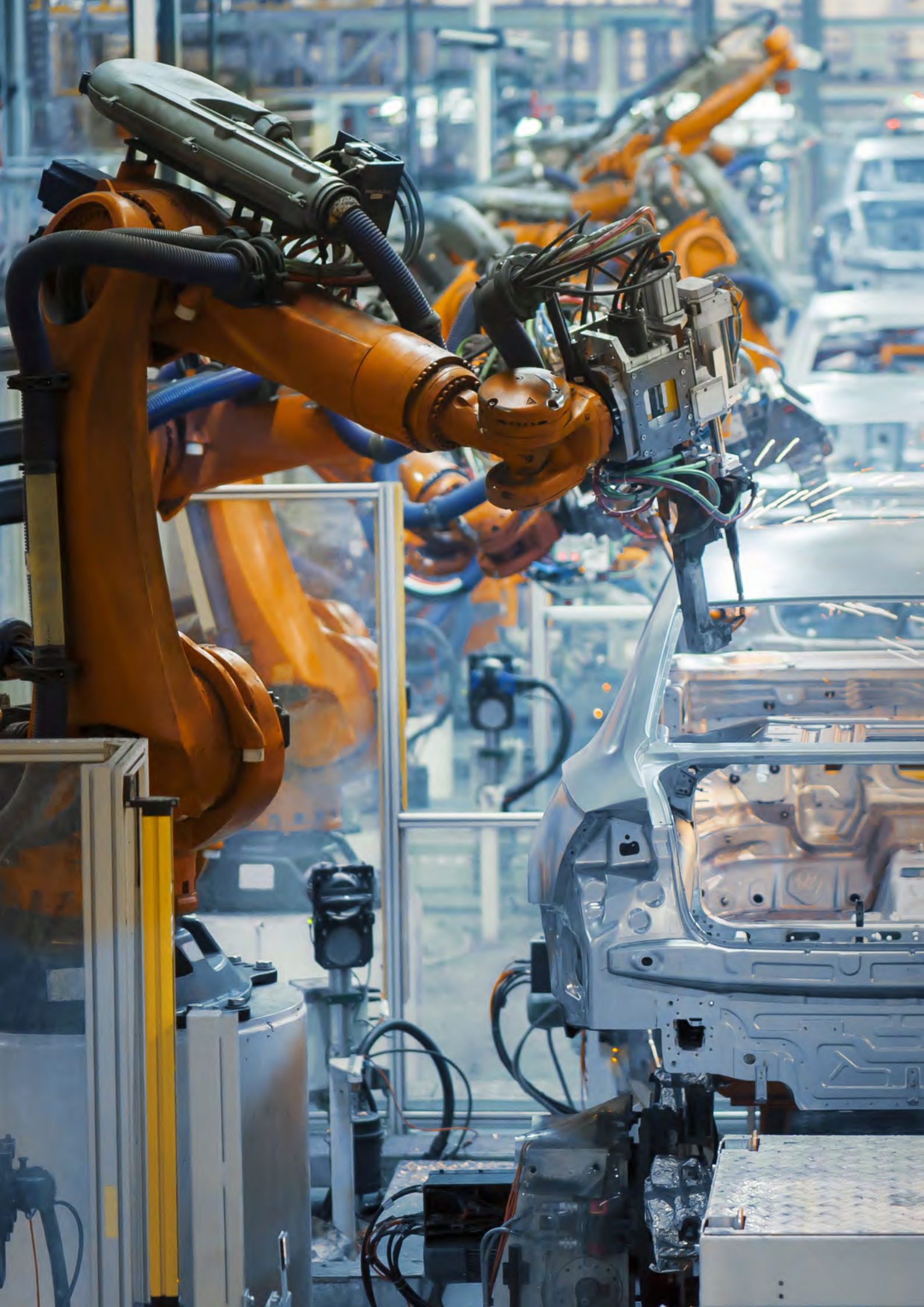
COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C'					CABLE LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION											
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E2X	1RA	M20	10.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	24.0	26.4	72.5	PVC04	0.160
20S	E2X	1RA	M20	10.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	24.0	26.4	70.0	PVC04	0.150
20	E2X	1RA	M20	10.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.4	1.0	30.5	33.6	73.0	PVC06	0.210
25S	E2X	1RA	M25	10.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	37.5	41.3	89.0	PVC09	0.330
25	E2X	1RA	M25	10.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	37.5	41.3	89.0	PVC09	0.330
32	E2X	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	46.0	50.6	86.0	PVC11	0.430
40	E2X	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	0.4	1.6	55.0	60.5	90.0	PVC15	0.620
50S	E2X	1RA	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	60.0	66.0	91.0	PVC18	0.750
50	E2X	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	0.6	1.6	70.1	77.1	95.0	PVC21	0.960
63S	E2X	1RA	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	0.6	1.6	75.0	82.5	102.0	PVC23	1.350
63	E2X	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	80.0	88.0	104.0	PVC25	1.350
75S	E2X	1RA	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	90.0	99.0	115.0	PVC28	2.120
75	E2X	1RA	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	0.6	1.6	100.0	110.0	117.0	PVC30	2.430
90	E2X	1RA	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	0.8	1.6	114.3	125.4	147.0	PVC32	4.230
100	E2X	1RA	M100	24.0	4"	44.0	5"	76.0	88.1	86.1	101.4	0.8	1.6	123.0	135.3	140.0	LSF33	4.470
115	E2X	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	133.4	146.7	162.0	LSF34	6.210
130	E2X	1RA	M130	24.0	5"	46.8	6"	97.0	110.1	110.2	123.2	0.8	1.6	152.4	167.6	174.0	LSF35	8.360

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E2X1RA534 = Nickel Plated Brass 1¼" NPT, 50SE2X1RA035 = Brass 1½" NPT, 20E2X1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.



TRUSEAL

TruSeal, the latest innovation in polymer and metallic strain relief cable glands for use in various commercial and industrial atmosphere applications has been designed by our experienced Research & Development Team, utilising CMP's 60 years as a market leader in cable glands. The TruSeal range encompasses some of the most advanced features of any product of its kind.

Leading the way in safety, the range complies with the requirements of the very latest industry standards.

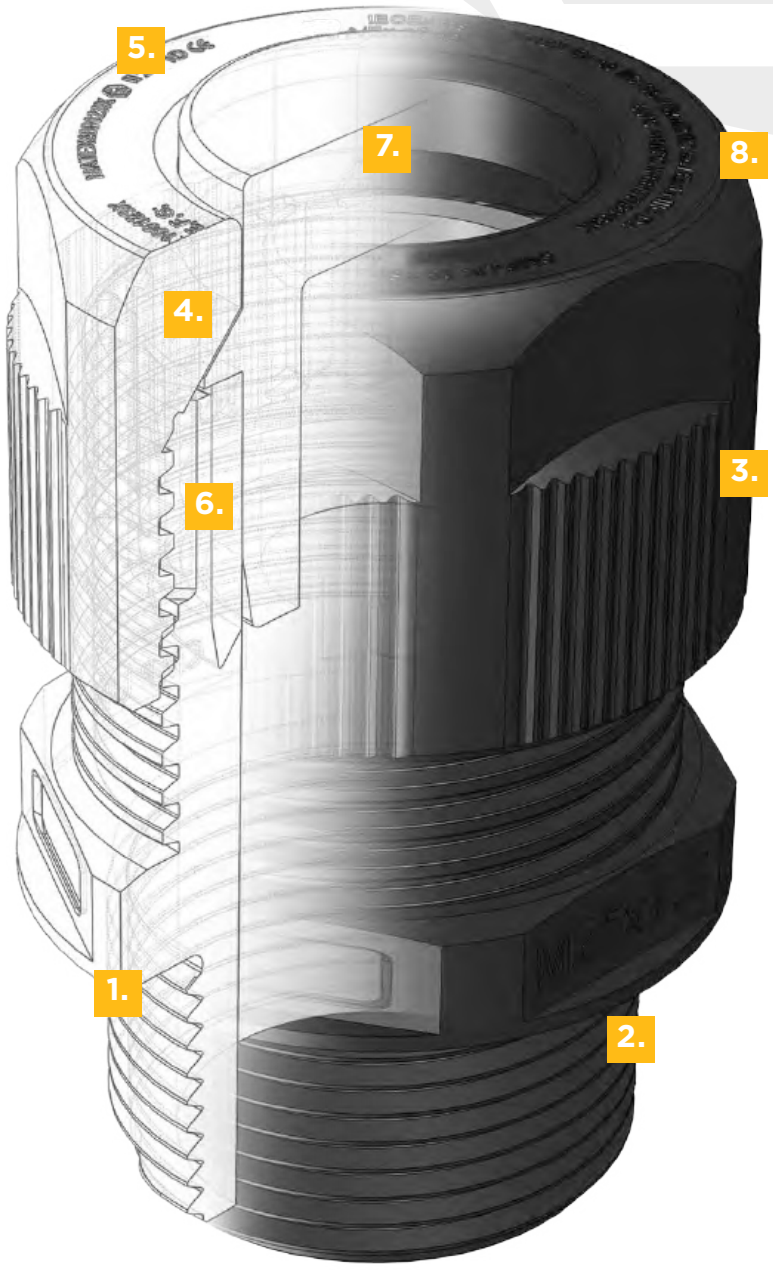
A choice of three types of displacement sealing ring, capable of sealing a wider range of cables, reduces the number of cable gland sizes required.

The TSPV0 option is suitable for flame retardant, low smoke and fume, zero halogen applications.

The TruSeal range includes cable glands suitable for indoor, outdoor and marine applications.

POWERED BY QUALITY AND DIFFERENT BY DESIGN

1. THREAD OPTIONS
2. ELIMINATES CORROSION
3. UV / WEATHER RESISTANT
4. ANTI-VIBRATION DEVICE
5. EASY IDENTIFICATION
6. FINGER LOCKING TYPE SEAL
7. IP66-69K PLUG
8. LOW WEIGHT/HIGH STRENGTH



TRUSEAL

1. Offering multiple thread options for all applications, including metric, NPT and PG.

2. Polymer design negates the risk of corrosion of dissimilar metals.

3. UV, weather-resistant material, tested to the highest standards.

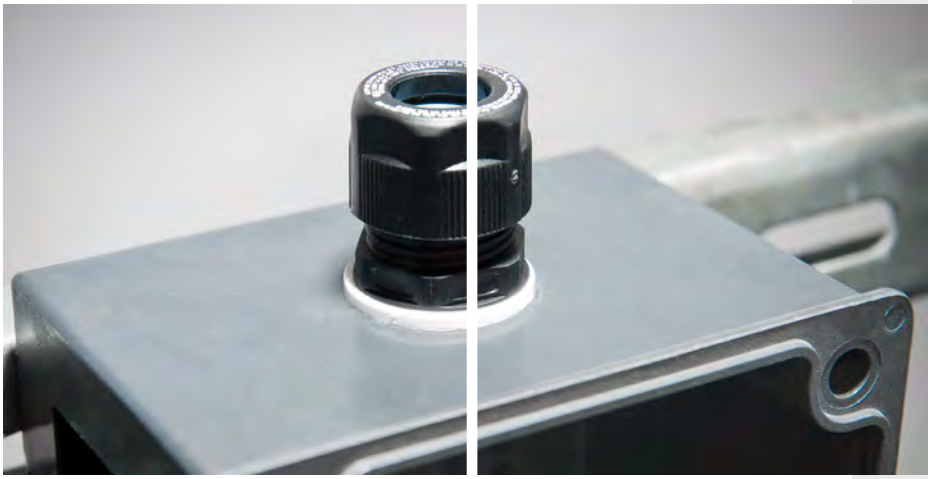
4. Anti-vibration, non-loosening design for heavy industry.

5. Easy to read product identification and certification.

6. Finger-locked strain relief sealing system, rated IP66, IP67, IP68, IP69, IP69K.

7. IP-rated ingress plug seals to protect the equipment prior to cable installation.

8. Low-weight, high-strength, robust design, with high-impact rating.



TSP

TRUSEAL POLYMER

TRUSEAL TSP POLYMER, INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED / SCREENED CABLES

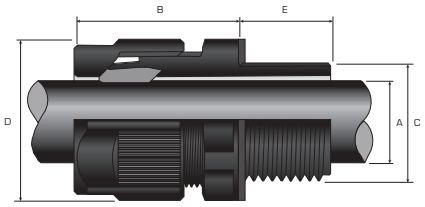
- Halogen and phosphorus-free
- Finger-locking seal provides superior cable retention and strain relief
- 3rd party certified to IEC/EN 62444
- Flame retardant UL94 V-0 version available
- Low weight with high stiffness and strength
- Widest cable range take for any comparable cable gland
- Available in a variety of colours (black as standard, see table below)
- Anti-vibration technology prevents seal loosening in operation
- Transit disc or IP68, IP69 and IP69K rated IP plug options available
- Approved entry thread sealing washer included
- Polyamide locknut available (ordering suffix 2TN) - delivered assembled

shown in black with standard seal and locknut

IP66 IP67 IP68 IP 69K
NEMA 4X UV CE +100°C -60°C

Product tested to IEC 60529, equivalent NEMA ratings shown for comparison purposes.

COLOUR	SUFFIX	METRIC ORDERING EXAMPLE	NPT ORDERING EXAMPLE
BLACK - RAL9011	-	12TSP1TA	12TSP1TAT
GREY - RAL7035	1	12TSP1TA1	12TSP1TA1T
GREY - RAL7001	2	12TSP1TA2	12TSP1TA2T
WHITE	3	12TSP1TA3	12TSP1TA3T
BLUE - RAL5015	4	12TSP1TA4	12TSP1TA4T
RED - RAL3000	5	12TSP1TA5	12TSP1TA5T



TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
IEC 62444 CERTIFICATE	CML 20CA12915
MECHANICAL CLASSIFICATION*	12-16 Impact = Level 4, 20-63 Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	12-16 IK07 to IEC 62262 (4 joules) 20-63 IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING**	IP66, IP67, IP68***, IP69 and IP69K
CABLE GLAND MATERIAL	Halogen-free Polyamide
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided (when braid is terminated inside enclosure)
SEALING TECHNIQUE	CMP Unique finger-locking type seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical classifications applied as per IEC/EN 62444
** Contact CMP for further information on ingress protection ratings
*** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

PRODUCT SELECTION TABLE WITH DUAL SEALING RANGE

DUAL SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'	MINIMUM ORDER QUANTITY
		STANDARD		OPTION								
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX		
16DTSP1TA	16DTSP2TN	M16	9.0	15.0	⅜"	11.0	3.0	10.0	19.0	20.9	27.0	100
20DTSP1TA	20DTSP2TN	M20	10.0	15.0	½"	14.0	5.0	14.0	24.0	26.2	30.5	100
25DTSP1TA	25DTSP2TN	M25	10.0	15.0	¾"	15.0	9.0	18.0	30.0	32.7	36.0	50
32DTSP1TA	32DTSP2TN	M32	12.0	15.0	1"	18.0	12.5	25.0	40.0	43.6	41.0	10
40DTSP1TA	40DTSP2TN	M40	12.0	18.0	1 ¼"	18.0	19.0	32.0	50.0	54.5	49.0	10
50DTSP1TA	50DTSP2TN	M50	12.0	18.0	1 ½"	19.0	22.0	38.0	58.0	63.2	59.0	5
63DTSP1TA	63DTSP2TN	M63	15.0	18.0	2"	20.0	28.0	48.0	68.0	74.1	64.0	1

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

STANDARD SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'	MINIMUM ORDER QUANTITY
		STANDARD		OPTION								
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX		
12TSP1TA	12TSP2TN	M12	9.0	15.0	¼"	11.0	3.0	6.5	15.0	16.4	27.0	100
16STSP1TA	16STSP2TN	M16	9.0	15.0	⅜"	11.0	3.0	7.0	19.0	20.9	27.0	100
16TSP1TA	16TSP2TN	M16	9.0	15.0	⅜"	11.0	6.0	10.0	19.0	20.9	27.0	100
20STSP1TA	20STSP2TN	M20	10.0	15.0	½"	14.0	5.0	10.0	24.0	26.2	30.5	100
20TSP1TA	20TSP2TN	M20	10.0	15.0	½"	14.0	9.0	14.0	24.0	26.2	30.5	100
25STSP1TA	25STSP2TN	M25	10.0	15.0	¾"	15.0	9.0	15.5	30.0	32.7	36.0	50
25TSP1TA	25TSP2TN	M25	10.0	15.0	¾"	15.0	12.5	18.0	30.0	32.7	36.0	50
32STSP1TA	32STSP2TN	M32	12.0	15.0	1"	18.0	12.5	19.0	40.0	43.6	41.0	10
32TSP1TA	32TSP2TN	M32	12.0	15.0	1"	18.0	17.0	25.0	40.0	43.6	41.0	10
40STSP1TA	40STSP2TN	M40	12.0	18.0	1 ¼"	18.0	19.0	27.0	50.0	54.5	49.0	10
40TSP1TA	40TSP2TN	M40	12.0	18.0	1 ¼"	18.0	24.0	32.0	50.0	54.5	49.0	10
50STSP1TA	50STSP2TN	M50	12.0	18.0	1 ½"	19.0	22.0	32.0	58.0	63.2	59.0	5
50TSP1TA	50TSP2TN	M50	12.0	18.0	1 ½"	19.0	28.0	38.0	58.0	63.2	59.0	5
63STSP1TA	63STSP2TN	M63	15.0	18.0	2"	20.0	28.0	39.0	68.0	74.1	64.0	1
63TSP1TA	63TSP2TN	M63	15.0	18.0	2"	20.0	37.0	48.0	68.0	74.1	64.0	1

For NPT threads add a 'T' to the suffix e.g. 16DTSP1TAT (⅜" NPT, black), 40DTSP1TAT1 (1 ¼" NPT, grey (silver)).
For long metric threads add an 'L' to the suffix e.g. 16DTSP1TAL (M16, black with 15mm length of entry thread)
Note - NPT TruSeal cable glands (12-40) are supplied with black polyamide locknuts regardless of the colour ordered (if required). 50 and 63 will be supplied with nickel-plated brass.

Dimensions are displayed in millimetres unless otherwise stated

TSPV0

TRUSEAL POLYMER SOLO

TSPV0 UL94 V-0 APPROVED, INDUSTRIAL CABLE GLAND

shown in grey ral7035 with dual seal

FOR ALL TYPES OF UNARMOURED & BRAIDED / SCREENED CABLES

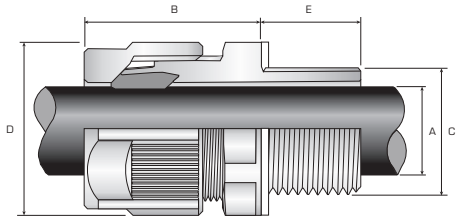
For use in the construction of public buildings including tower blocks, airports, hospitals, stadia, and for essential services including, fire safety systems, rail infrastructure, tunnels and ventilation systems, where halogen-free cables are required.

- Halogen and phosphorus-free
- Extremely flame retardant and self-extinguishing according to UL94 V-0
- Incorporates CMP's trusted SOLO technology
- 3rd party certified to IEC/EN 62444
- Finger-locking seal provides superior cable retention and strain relief
- Low weight with high stiffness and strength
- Widest cable range take for any comparable cable gland
- Available in a variety of colours (see table below)
- Approved entry thread sealing washer included
- Polyamide metric locknut available (ordering suffix 2TN) - delivered assembled*

IP66 IP67 IP68 IP 69K

UV CE +100°C -40°C

COLOUR	SUFFIX	METRIC ORDERING EXAMPLE	NPT ORDERING EXAMPLE
BLACK - RAL9011	-	12TSPV01TA	12TSPV01TAT
GREY - RAL7035	1	12TSPV01TA1	12TSPV01TAT1
GREY - RAL7001	2	12TSPV01TA2	12TSPV01TAT2
WHITE	3	12TSPV01TA3	12TSPV01TAT3
RED - RAL3000	5	12TSPV01TA5	12TSPV01TAT5



TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
MECHANICAL CLASSIFICATION*	High impact resistance, contact CMP
ENCLOSURE PROTECTION	High impact resistance, contact CMP
INGRESS PROTECTION RATING	IP66, IP67, IP68**, IP69 and IP69K
FLAME RETARDANCY	Glow Wire Test – EN/IEC 60695-2: 960°C
	Flammability Test – EN/IEC 60695-11-10 / UL94: V-0
CABLE GLAND MATERIAL	UL94 V-0 Halogen and phosphorus-free flame retardant polyamide
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided (when braid is terminated inside enclosure)
SEALING TECHNIQUE	CMP Unique finger-locking type seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical classifications applied as per IEC/EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

PRODUCT SELECTION TABLE WITH DUAL SEALING RANGE

DUAL SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT*	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
16DTSPV01TA	16DTSPV02TN	M16	9.0	15.0	⅜"	11.0	3.0	10.0	19.0	20.9	27.0
20DTSPV01TA	20DTSPV02TN	M20	10.0	15.0	½"	14.0	5.0	14.0	24.0	26.2	30.5
25DTSPV01TA	25DTSPV02TN	M25	10.0	15.0	¾"	15.0	9.0	18.0	30.0	32.7	36.0
32DTSPV01TA	32DTSPV02TN	M32	12.0	15.0	1"	18.0	12.5	24.8	40.0	43.6	41.0
40DTSPV01TA	40DTSPV02TN	M40	12.0	18.0	1 ¼"	18.0	19.0	32.0	50.0	54.5	49.0
50DTSPV01TA	50DTSPV02TN*	M50	12.0	18.0	1 ½"	19.0	22.0	38.0	58.0	63.2	59.0
63DTSPV01TA	63DTSPV02TN*	M63	15.0	18.0	2"	20.0	28.0	48.0	68.0	74.1	64.0

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

STANDARD SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT*	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
12TSPV01TA	12TSPV02TN	M12	9.0	15.0	¼"	11.0	3.0	6.5	15.0	16.4	27.0
16STSPV01TA	16STSPV02TN	M16	9.0	15.0	⅜"	11.0	3.0	7.0	19.0	20.9	27.0
16TSPV01TA	16TSPV02TN	M16	9.0	15.0	⅜"	11.0	6.0	10.0	19.0	20.9	27.0
20STSPV01TA	20STSPV02TN	M20	10.0	15.0	½"	14.0	5.0	10.0	24.0	26.2	30.5
20TSPV01TA	20TSPV02TN	M20	10.0	15.0	½"	14.0	9.0	14.0	24.0	26.2	30.5
25STSPV01TA	25STSPV02TN	M25	10.0	15.0	¾"	15.0	9.0	15.5	30.0	32.7	36.0
25TSPV01TA	25TSPV02TN	M25	10.0	15.0	¾"	15.0	12.5	18.0	30.0	32.7	36.0
32STSPV01TA	32STSPV02TN	M32	12.0	15.0	1"	18.0	12.5	19.0	40.0	43.6	41.0
32TSPV01TA	32TSPV02TN	M32	12.0	15.0	1"	18.0	17.0	24.8	40.0	43.6	41.0
40STSPV01TA	40STSPV02TN	M40	12.0	18.0	1 ¼"	18.0	19.0	27.0	50.0	54.5	49.0
40TSPV01TA	40TSPV02TN	M40	12.0	18.0	1 ¼"	18.0	24.0	32.0	50.0	54.5	49.0
50STSPV01TA	50STSPV02TN*	M50	12.0	18.0	1 ½"	19.0	22.0	32.0	58.0	63.2	59.0
50TSPV01TA	50TSPV02TN*	M50	12.0	18.0	1 ½"	19.0	28.0	38.0	58.0	63.2	59.0
63STSPV01TA	63STSPV02TN*	M63	15.0	18.0	2"	20.0	28.0	39.0	68.0	74.1	64.0
63TSPV01TA	63TSPV02TN*	M63	15.0	18.0	2"	20.0	37.0	48.0	68.0	74.1	64.0

For NPT threads add a 'T' to the suffix e.g. 16DTSPV01TAT (⅜" NPT, black), 40DTSPV01TAT1 (1 ¼" NPT, grey (silver))
For long metric threads add an 'L' to the suffix e.g. 16DTSPV01TAL (M16, black with 15mm length of entry thread)
*Locknut notes: Metric sizes 50 & 63 supplied only with nickel plated brass locknut (if cable gland with locknut option is ordered)
Polyamide locknuts are not available for V0 NPT products. These products are supplied only with nickel plated brass locknut (if cable gland with locknut option is ordered)

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

TSPe Ex

TRUSEAL POLYMER

TRUSEAL TSPe Ex eb & Ex ta
POLYMER, EXPLOSIVE ATMOSPHERE CABLE GLAND

shown in black with standard seal

FOR ALL TYPES OF UNARMOURED & BRAIDED / SCREENED CABLES

- Halogen and phosphorus-free
- Finger-locking seal provides superior cable retention and strain relief
- Approved to the latest editions of IEC/EN 60079
- Internationally marked IECEx, ATEX and UKEX
- Intrinsically safe (Ex i) blue nut version available
- 3rd party certified to IEC/EN 62444
- Widest cable range take for any comparable cable gland
- Low weight with high stiffness and strength
- Anti-vibration technology prevents seal loosening in operation
- Transit disc or IP68, IP69 and IP69K rated IP plug options available
- Approved entry thread sealing washer included
- For clearance holes the TSPe must be installed using a CMP metallic locknut (available with the cable gland using ordering suffix 2TN)

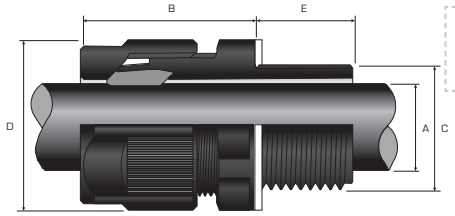
IP66 IP67 IP68 IP69K

Ex eb Ex ta UV +95°C -60°C

TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
MECHANICAL CLASSIFICATION*	12-16 Impact = Level 5, 20-63 Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	12-16 IK07 to IEC 62262 (4 joules), 20-63 IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING	IP66, IP67, IP68**, IP69 and IP69K
CABLE GLAND MATERIAL	Halogen-free Polyamide
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided when terminated inside enclosure
SEALING TECHNIQUE	CMP Unique finger-locking type seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical classifications applied as per IEC/EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML 19ATEX3185X	IECEx CERTIFICATE	IECEx CML 19.0062X
UKEX CERTIFICATE	CML 21UKEX3264X	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
CODE OF PROTECTION	Ex II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da		
COMPLIANCE STANDARDS	EN 60079-0,7,31	COMPLIANCE STANDARDS	IEC 60079-0,7,31
EAC CERTIFICATE	RU C-GB.A[illegible]07.B.02516/20	DNV CERTIFICATE	TAE000000Y
SANS	IA S-XPL21804 21.0014X	CCC CERTIFICATE	2020322313003450



CE Ex IEC IECEx UKCA DNV·GL

PRODUCT SELECTION TABLE WITH DUAL SEALING RANGE

DUAL SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
16DTSPE1TA	16DTSPE2TN	M16	9.0	15.0	⅜"	11.0	3.2	10.0	19.0	20.9	27.0
20DTSPE1TA	20DTSPE2TN	M20	10.0	15.0	½"	14.0	5.5	14.0	24.0	26.2	30.5
25DTSPE1TA	25DTSPE2TN	M25	10.0	15.0	¾"	15.0	9.0	18.0	30.0	32.7	36.0
32DTSPE1TA	32DTSPE2TN	M32	12.0	15.0	1"	18.0	12.5	25.0	40.0	43.6	41.0
40DTSPE1TA	40DTSPE2TN	M40	12.0	18.0	1 ¼"	18.0	19.0	32.0	50.0	54.5	49.0
50DTSPE1TA	50DTSPE2TN	M50	12.0	18.0	1 ½"	19.0	22.0	38.0	58.0	63.2	59.0
63DTSPE1TA	63DTSPE2TN	M63	15.0	18.0	2"	20.0	28.0	48.0	68.0	74.1	64.0

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

STANDARD SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
12TSPE1TA	12TSPE2TN	M12	9.0	15.0	¼"	11.0	3.0	6.5	15.0	16.4	27.0
16STSPE1TA	16STSPE2TN	M16	9.0	15.0	⅜"	11.0	3.0	7.0	19.0	20.9	27.0
16TSPE1TA	16TSPE2TN	M16	9.0	15.0	⅜"	11.0	6.0	10.0	19.0	20.9	27.0
20STSPE1TA	20STSPE2TN	M20	10.0	15.0	½"	14.0	5.0	10.0	24.0	26.2	30.5
20TSPE1TA	20TSPE2TN	M20	10.0	15.0	½"	14.0	9.0	14.0	24.0	26.2	30.5
25STSPE1TA	25STSPE2TN	M25	10.0	15.0	¾"	15.0	9.0	15.5	30.0	32.7	36.0
25TSPE1TA	25TSPE2TN	M25	10.0	15.0	¾"	15.0	12.5	18.0	30.0	32.7	36.0
32STSPE1TA	32STSPE2TN	M32	12.0	15.0	1"	18.0	12.5	19.0	40.0	43.6	41.0
32TSPE1TA	32TSPE2TN	M32	12.0	15.0	1"	18.0	17.0	25.0	40.0	43.6	41.0
40STSPE1TA	40STSPE2TN	M40	12.0	18.0	1 ¼"	18.0	19.0	27.0	50.0	54.5	49.0
40TSPE1TA	40TSPE2TN	M40	12.0	18.0	1 ¼"	18.0	24.0	32.0	50.0	54.5	49.0
50STSPE1TA	50STSPE2TN	M50	12.0	18.0	1 ½"	19.0	22.0	32.0	58.0	63.2	59.0
50TSPE1TA	50TSPE2TN	M50	12.0	18.0	1 ½"	19.0	28.0	38.0	58.0	63.2	59.0
63STSPE1TA	63STSPE2TN	M63	15.0	18.0	2"	20.0	28.0	39.0	68.0	74.1	64.0
63TSPE1TA	63TSPE2TN	M63	15.0	18.0	2"	20.0	37.0	48.0	68.0	74.1	64.0

For NPT threads add a 'T' to the suffix e.g. 16DTSPE1TAT (¾" NPT, black), 40DTSPE1TA1T (1 ¼" NPT, grey (silver))
For long metric threads add an 'L' to the suffix e.g. 16DTSPE1TAL (M16, black with 15mm length of entry thread)

Dimensions are displayed in millimetres unless otherwise stated

TSPe Ex i

TRUSEAL POLYMER

TRUSEAL TSPe Ex eb & Ex ta (TO BE USED WITH Ex i APPLICATIONS) POLYMER, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED / SCREENED CABLES

- Blue nut for Intrinsically safe (Ex i) identification
- Halogen and phosphorus-free
- Finger-locking seal provides superior cable retention and strain relief
- Approved to the latest editions of IEC/EN 60079
- Internationally marked IECEx, ATEX and UKEX
- 3rd party certified to IEC/EN 62444
- Widest cable range take for any comparable cable gland
- Low weight with high stiffness and strength
- Anti-vibration technology prevents seal loosening in operation
- Transit disc or IP68, IP69 and IP69K rated IP plug options available
- Approved entry thread sealing washer included
- For clearance holes the TSPe must be installed using a CMP metallic locknut (available with the cable gland using ordering suffix 2TN)

shown with transit disc

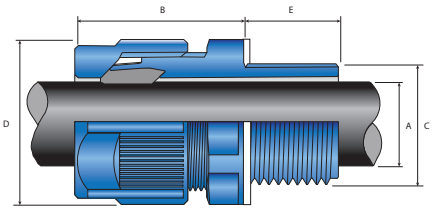
IP66 IP67 IP68 IP69K

Ex eb Ex ta UV +95°C ↑ -60°C

TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
MECHANICAL CLASSIFICATION*	12-16 Impact = Level 5, 20-63 Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	12-16 IK07 to IEC 62262 (4 joules), 20-63 IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING	IP66, IP67, IP68**, IP69 and IP69K
CABLE GLAND MATERIAL	Halogen-free Polyamide
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided when terminated inside enclosure
SEALING TECHNIQUE	CMP Unique finger-locking type seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical classifications applied as per IEC/EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML 19ATEX3185X	IECEx CERTIFICATE	IECEx CML 19.0062X
UKEX CERTIFICATE	CML 21UKEX3264X	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da		
COMPLIANCE STANDARDS	EN 60079-0,7,31	COMPLIANCE STANDARDS	IEC 60079-0,7,31
EAC CERTIFICATE	RU C-GB.АД07.B.02516/20	DNV CERTIFICATE	TAE000000Y
SANS	IA S-XPL21804 21.0014X	CCC CERTIFICATE	2020322313003450



CE Ex IEC IECEx UKCA DNV·GL

PRODUCT SELECTION TABLE WITH DUAL SEALING RANGE

DUAL SEAL	AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
	STANDARD		OPTION							
CABLE GLAND ORDERING REF	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
16DTSPE1TA4	M16	9.0	15.0	⅜"	11.0	3.2	10.0	19.0	20.9	27.0
20DTSPE1TA4	M20	10.0	15.0	½"	14.0	5.5	14.0	24.0	26.2	30.5
25DTSPE1TA4	M25	10.0	15.0	¾"	15.0	9.0	18.0	30.0	32.7	36.0
32DTSPE1TA4	M32	12.0	15.0	1"	18.0	12.5	25.0	40.0	43.6	41.0
40DTSPE1TA4	M40	12.0	18.0	1 ¼"	18.0	19.0	32.0	50.0	54.5	49.0
50DTSPE1TA4	M50	12.0	18.0	1 ½"	19.0	22.0	38.0	58.0	63.2	59.0
63DTSPE1TA4	M63	15.0	18.0	2"	20.0	28.0	48.0	68.0	74.1	64.0

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

STANDARD SEAL	AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
	STANDARD		OPTION							
CABLE GLAND ORDERING REF	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
12TSPE1TA4	M12	9.0	15.0	¼"	11.0	3.0	6.5	15.0	16.4	27.0
16STSPE1TA4	M16	9.0	15.0	⅜"	11.0	3.0	7.0	19.0	20.9	27.0
16TSPE1TA4	M16	9.0	15.0	⅜"	11.0	6.0	10.0	19.0	20.9	27.0
20STSPE1TA4	M20	10.0	15.0	½"	14.0	5.0	10.0	24.0	26.2	30.5
20TSPE1TA4	M20	10.0	15.0	½"	14.0	9.0	14.0	24.0	26.2	30.5
25STSPE1TA4	M25	10.0	15.0	¾"	15.0	9.0	15.5	30.0	32.7	36.0
25TSPE1TA4	M25	10.0	15.0	¾"	15.0	12.5	18.0	30.0	32.7	36.0
32STSPE1TA4	M32	12.0	15.0	1"	18.0	12.5	19.0	40.0	43.6	41.0
32TSPE1TA4	M32	12.0	15.0	1"	18.0	17.0	25.0	40.0	43.6	41.0
40STSPE1TA4	M40	12.0	18.0	1 ¼"	18.0	19.0	27.0	50.0	54.5	49.0
40TSPE1TA4	M40	12.0	18.0	1 ¼"	18.0	24.0	32.0	50.0	54.5	49.0
50STSPE1TA4	M50	12.0	18.0	1 ½"	19.0	22.0	32.0	58.0	63.2	59.0
50TSPE1TA4	M50	12.0	18.0	1 ½"	19.0	28.0	38.0	58.0	63.2	59.0
63STSPE1TA4	M63	15.0	18.0	2"	20.0	28.0	39.0	68.0	74.1	64.0
63TSPE1TA4	M63	15.0	18.0	2"	20.0	37.0	48.0	68.0	74.1	64.0

For NPT threads add a 'T' to the suffix e.g. 16DTSPE1TA4T (⅜" NPT)
For long metric threads add an 'L' to the suffix e.g. 16DTSPE1TA4L (M16, with 15mm length of entry thread)

Dimensions are displayed in millimetres unless otherwise stated

TSM

TRUSEAL METALLIC

TRUSEAL TSM INDUSTRIAL, METALLIC CABLE GLAND

shown with standard seal

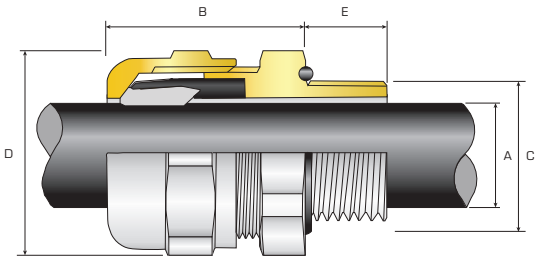
FOR ALL TYPES OF UNARMOURED & BRAIDED / SCREENED CABLES

- Finger-locking seal provides superior cable retention and strain relief
- 3rd party certified to IEC/EN 62444
- Widest cable range take on the market
- Easy to install
- Robust design, high quality materials
- O-ring interface seal included as standard
- Transit disc or IP68, IP69 and IP69K rated IP plug options available
- Product supplied in nickel-plated brass, or stainless steel on request
- Nickel-plated brass locknut available (ordering suffix 2TN)

IP66 IP67 IP68 IP69K

CE

+105°C ↑ -60°C



TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
MECHANICAL CLASSIFICATION*	Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING	IP66, IP67, IP68**, IP69 and IP69K

CABLE GLAND MATERIAL	Nickel-plated brass, Stainless Steel (option)
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided (when braid is terminate inside enclosure)
SEALING TECHNIQUE	CMP Unique finger-locking type seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical classifications applied as per IEC/EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

PRODUCT SELECTION TABLE WITH DUAL SEALING RANGE

DUAL SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
16DTSM1TA5	16DTSM2TN5	M16	6.0	12.0	⅜"	11.0	3.0	10.0	20.0	22.0	23.6
20DTSM1TA5	20DTSM2TN5	M20	6.5	12.0	½"	14.0	5.0	14.0	24.0	26.4	26.7
25DTSM1TA5	25DTSM2TN5	M25	7.0	12.0	¾"	15.0	9.0	18.0	30.0	33.0	32.0
32DTSM1TA5	32DTSM2TN5	M32	8.0	12.0	1"	18.0	12.5	25.0	39.0	42.9	37.8
40DTSM1TA5	40DTSM2TN5	M40	8.0	15.0	1 ¼"	18.0	19.0	32.0	50.0	55.0	44.7
50DTSM1TA5	50DTSM2TN5	M50	9.0	15.0	1 ½"	19.0	22.0	38.0	57.0	62.7	48.7
63DTSM1TA5	63DTSM2TN5	M63	10.0	15.0	2"	20.0	28.0	48.0	68.0	74.8	52.2

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

STANDARD SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
12TSM1TA5	12TSM2TN5	M12	6.0	12.0	¼"	11.0	3.0	6.5	16.0	17.6	22.3
16STSM1TA5	16STSM2TN5	M16	6.0	12.0	⅜"	11.0	3.0	7.0	20.0	22.0	23.6
16TSM1TA5	16TSM2TN5	M16	6.0	12.0	⅜"	11.0	6.0	10.0	20.0	22.0	23.6
20STSM1TA5	20STSM2TN5	M20	6.5	12.0	½"	14.0	5.0	10.0	24.0	26.4	26.7
20TSM1TA5	20TSM2TN5	M20	6.5	12.0	½"	14.0	9.0	14.0	24.0	26.4	26.7
25STSM1TA5	25STSM2TN5	M25	7.0	12.0	¾"	15.0	9.0	15.5	30.0	33.0	32.0
25TSM1TA5	25TSM2TN5	M25	7.0	12.0	¾"	15.0	12.5	18.0	30.0	33.0	32.0
32STSM1TA5	32STSM2TN5	M32	8.0	12.0	1"	18.0	12.5	19.0	39.0	42.9	37.8
32TSM1TA5	32TSM2TN5	M32	8.0	12.0	1"	18.0	17.0	25.0	39.0	42.9	37.8
40STSM1TA5	40STSM2TN5	M40	8.0	15.0	1 ¼"	18.0	19.0	27.0	50.0	55.0	44.7
40TSM1TA5	40TSM2TN5	M40	8.0	15.0	1 ¼"	18.0	24.0	32.0	50.0	55.0	44.7
50STSM1TA5	50STSM2TN5	M50	9.0	15.0	1 ½"	19.0	22.0	32.0	57.0	62.7	48.7
50TSM1TA5	50TSM2TN5	M50	9.0	15.0	1 ½"	19.0	28.0	38.0	57.0	62.7	48.7
63STSM1TA5	63STSM2TN5	M63	10.0	15.0	2"	20.0	28.0	39.0	68.0	74.8	52.2
63TSM1TA5	63TSM2TN5	M63	10.0	15.0	2"	20.0	37.0	48.0	68.0	74.8	52.2

For NPT threads add a 'T' to the suffix e.g. 16DTSM1TA5T (⅜" NPT)
For long metric threads add an 'L' to the suffix e.g. 16DTSM1TA5L (M16, with 12mm length of entry thread)

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

TSMe Ex

TRUSEAL METALLIC

TRUSEAL TSMe Ex eb & Ex ta
METALLIC, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED / SCREENED CABLES

- Finger-locking seal provides superior cable retention and strain relief
- Approved to the latest editions of IEC/EN 60079
- Internationally marked IECEx, ATEX and UKEX
- Suitable for intrinsically safe (Ex i) circuits
- 3rd party certified to IEC/EN 62444
- Widest cable range take on the market
- Easy to install
- Robust design, high quality materials
- O-ring interface seal included as standard
- Transit disc or IP68, IP69 and IP69K rated IP plug options available
- Product supplied in nickel-plated brass, or stainless steel on request
- Nickel-plated brass locknut available (ordering suffix 2TN)

shown with standard seal

IP66 IP67 IP68 IP69K

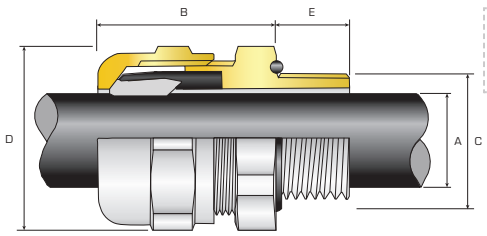
Ex eb Ex ta +105 °C ↑ -60 °C

TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
MECHANICAL CLASSIFICATION*	Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING	IP66, IP67, IP68**, IP69 and IP69K

CABLE GLAND MATERIAL	Nickel-plated brass, Stainless Steel (option)
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided (when braid is terminated inside enclosure)
SEALING TECHNIQUE	CMP Unique finger-locking type seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical classifications applied as per IEC/EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML 19ATEX3185X	IECEx CERTIFICATE	IECEx CML 19.0062X
UKEX CERTIFICATE	CML 21UKEX3264X	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da		
COMPLIANCE STANDARDS	EN 60079-0,7,31	COMPLIANCE STANDARDS	IEC 60079-0,7,31
EAC CERTIFICATE	RU C-GB.AД07.B.02516/20	DNV CERTIFICATE	TAE000000Y
SANS	IA S-XPL21804 21.0014X	CCC CERTIFICATE	2020322313003450



CE Ex IEC IECEx UKCA DNV·GL

PRODUCT SELECTION TABLE WITH DUAL SEALING RANGE

DUAL SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
16DTSME1TA5	16DTSME2TN5	M16	6.0	12.0	⅜"	11.0	3.0	10.0	20.0	22.0	23.6
20DTSME1TA5	20DTSME2TN5	M20	6.5	12.0	½"	14.0	5.0	14.0	24.0	26.4	26.7
25DTSME1TA5	25DTSME2TN5	M25	7.0	12.0	¾"	15.0	9.0	18.0	30.0	33.0	32.0
32DTSME1TA5	32DTSME2TN5	M32	8.0	12.0	1"	18.0	12.5	25.0	39.0	42.9	37.8
40DTSME1TA5	40DTSME2TN5	M40	8.0	15.0	1 ¼"	18.0	19.0	32.0	50.0	55.0	44.7
50DTSME1TA5	50DTSME2TN5	M50	9.0	15.0	1 ½"	19.0	22.0	38.0	57.0	62.7	48.7
63DTSME1TA5	63DTSME2TN5	M63	10.0	15.0	2"	20.0	28.0	48.0	68.0	74.8	52.2

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

STANDARD SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
12TSME1TA5	12TSME2TN5	M12	6.0	12.0	¼"	11.0	3.0	6.5	16.0	17.6	22.3
16STSME1TA5	16STSME2TN5	M16	6.0	12.0	⅜"	11.0	3.0	7.0	20.0	22.0	23.6
16TSME1TA5	16TSME2TN5	M16	6.0	12.0	⅜"	11.0	6.0	10.0	20.0	22.0	23.6
20STSME1TA5	20STSME2TN5	M20	6.5	12.0	½"	14.0	5.0	10.0	24.0	26.4	26.7
20TSME1TA5	20TSME2TN5	M20	6.5	12.0	½"	14.0	9.0	14.0	24.0	26.4	26.7
25STSME1TA5	25STSME2TN5	M25	7.0	12.0	¾"	15.0	9.0	15.5	30.0	33.0	32.0
25TSME1TA5	25TSME2TN5	M25	7.0	12.0	¾"	15.0	12.5	18.0	30.0	33.0	32.0
32STSME1TA5	32STSME2TN5	M32	8.0	12.0	1"	18.0	12.5	19.0	39.0	42.9	37.8
32TSME1TA5	32TSME2TN5	M32	8.0	12.0	1"	18.0	17.0	25.0	39.0	42.9	37.8
40STSME1TA5	40STSME2TN5	M40	8.0	15.0	1 ¼"	18.0	19.0	27.0	50.0	55.0	44.7
40TSME1TA5	40TSME2TN5	M40	8.0	15.0	1 ¼"	18.0	24.0	32.0	50.0	55.0	44.7
50STSME1TA5	50STSME2TN5	M50	9.0	15.0	1 ½"	19.0	22.0	32.0	57.0	62.7	48.7
50TSME1TA5	50TSME2TN5	M50	9.0	15.0	1 ½"	19.0	28.0	38.0	57.0	62.7	48.7
63STSME1TA5	63STSME2TN5	M63	10.0	15.0	2"	20.0	28.0	39.0	68.0	74.8	52.2
63TSME1TA5	63TSME2TN5	M63	10.0	15.0	2"	20.0	37.0	48.0	68.0	74.8	52.2

For NPT threads add a 'T' to the suffix e.g. 16DTSME1TA5T (⅜" NPT)
For long metric threads add an 'L' to the suffix e.g. 16DTSME1TA5L (M16, with 12mm length of entry thread)

Dimensions are displayed in millimetres unless otherwise stated

TSZ EMC

TRUSEAL EMC

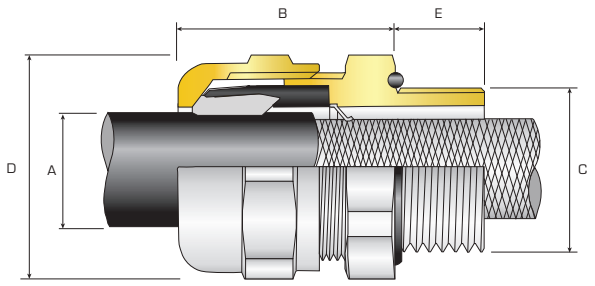
TRUSEAL TSZ, EMC, INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF BRAIDED / SCREENED CABLES

- Designed for superior EMC performance
- 360° contact around screen circumference
- 3rd party EMC performance tested to EN 55032
- Finger-locking seal provides superior cable retention and strain relief
- 3rd party certified to IEC/EN 62444
- Widest cable range take on the market
- Robust design, high quality materials
- O-ring interface seal included as standard
- Transit disc or IP68, IP69 and IP69K rated IP plug options available
- Product supplied in nickel-plated brass, or stainless steel on request
- Ex eb certified product also available
- Nickel-plated brass locknut available (ordering suffix 2TN)

IP66 IP67 IP68 IP 69K

CE +105 °C -60 °C



TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
MECHANICAL CLASSIFICATION*	Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING	IP66, IP67, IP68**, IP69 and IP69K

CABLE GLAND MATERIAL	Nickel-plated brass, Stainless Steel (option)
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Screened or Braided
SEALING TECHNIQUE	CMP Unique finger-locking type seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical classifications applied as per IEC/EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

PRODUCT SELECTION TABLE WITH DUAL SEALING RANGE

DUAL SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
16DTSZ1TA5	16DTSZ2TN5	M16	6.0	12.0	⅜"	11.0	3.0	10.0	20.0	22.0	23.6
20DTSZ1TA5	20DTSZ2TN5	M20	6.5	12.0	½"	14.0	5.0	14.0	24.0	26.4	26.7
25DTSZ1TA5	25DTSZ2TN5	M25	7.0	12.0	¾"	15.0	9.0	18.0	30.0	33.0	32.0
32DTSZ1TA5	32DTSZ2TN5	M32	8.0	12.0	1"	18.0	12.5	25.0	39.0	42.9	37.8
40DTSZ1TA5	40DTSZ2TN5	M40	8.0	15.0	1 ¼"	18.0	19.0	32.0	50.0	55.0	44.7
50DTSZ1TA5	50DTSZ2TN5	M50	9.0	15.0	1 ½"	19.0	22.0	38.0	57.0	62.7	48.7
63DTSZ1TA5	63DTSZ2TN5	M63	10.0	15.0	2"	20.0	28.0	48.0	68.0	74.8	52.2

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

STANDARD SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
12TSZ1TA5	12TSZ2TN5	M12	6.0	12.0	¼"	11.0	3.0	6.5	16.0	17.6	22.3
16STSZ1TA5	16STSZ2TN5	M16	6.0	12.0	⅜"	11.0	3.0	7.0	20.0	22.0	23.6
16TSZ1TA5	16TSZ2TN5	M16	6.0	12.0	⅜"	11.0	6.0	10.0	20.0	22.0	23.6
20STSZ1TA5	20STSZ2TN5	M20	6.5	12.0	½"	14.0	5.0	10.0	24.0	26.4	26.7
20TSZ1TA5	20TSZ2TN5	M20	6.5	12.0	½"	14.0	9.0	14.0	24.0	26.4	26.7
25STSZ1TA5	25STSZ2TN5	M25	7.0	12.0	¾"	15.0	9.0	15.5	30.0	33.0	32.0
25TSZ1TA5	25TSZ2TN5	M25	7.0	12.0	¾"	15.0	12.5	18.0	30.0	33.0	32.0
32STSZ1TA5	32STSZ2TN5	M32	8.0	12.0	1"	18.0	12.5	19.0	39.0	42.9	37.8
32TSZ1TA5	32TSZ2TN5	M32	8.0	12.0	1"	18.0	17.0	25.0	39.0	42.9	37.8
40STSZ1TA5	40STSZ2TN5	M40	8.0	15.0	1 ¼"	18.0	19.0	27.0	50.0	55.0	44.7
40TSZ1TA5	40TSZ2TN5	M40	8.0	15.0	1 ¼"	18.0	24.0	32.0	50.0	55.0	44.7
50STSZ1TA5	50STSZ2TN5	M50	9.0	15.0	1 ½"	19.0	22.0	32.0	57.0	62.7	48.7
50TSZ1TA5	50TSZ2TN5	M50	9.0	15.0	1 ½"	19.0	28.0	38.0	57.0	62.7	48.7
63STSZ1TA5	63STSZ2TN5	M63	10.0	15.0	2"	20.0	28.0	39.0	68.0	74.8	52.2
63TSZ1TA5	63TSZ2TN5	M63	10.0	15.0	2"	20.0	37.0	48.0	68.0	74.8	52.2

For NPT threads add a 'T' to the suffix e.g. 16DTSZ1TA52T (⅜" NPT)
For long metric threads add an 'L' to the suffix e.g. 16DTSZ1TA52L (M16, 12mm length of entry thread)

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

TSZe EMC Ex

TRUSEAL EMC

TRUSEAL TSZe EMC Ex eb & Ex ta
METALLIC, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF BRAIDED / SCREENED CABLES

- Designed for superior EMC performance
- 360° contact around screen circumference
- 3rd party EMC performance tested to EN 55032
- Approved to the latest editions of IEC/EN 60079
- Internationally marked IECEx, ATEX and UKEX
- Suitable for intrinsically safe (Ex i) circuits
- Finger-locking seal provides superior cable retention and strain relief
- 3rd party certified to IEC/EN 62444
- Widest cable range take on the market
- O-ring interface seal included as standard
- Transit disc or IP68, IP69 and IP69K rated IP plug options available
- Product supplied in nickel-plated brass, or stainless steel on request

IP66 IP67 IP68 IP69K

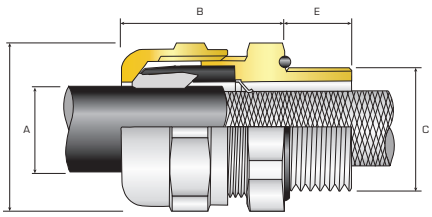
Ex eb Ex ta +105°C ↑ -60°C

TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
MECHANICAL CLASSIFICATION*	Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING	IP66, IP67, IP68**, IP69 and IP69K

CABLE GLAND MATERIAL	Nickel-plated brass, Stainless Steel (option)
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Screened or Braided
SEALING TECHNIQUE	CMP Unique finger-locking type seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical classifications applied as per IEC/EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML 19ATEX3185X	IECEx CERTIFICATE	IECEx CML 19.0062X
UKEX CERTIFICATE	CML 21UKEX3264X	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
CODE OF PROTECTION	II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da		
COMPLIANCE STANDARDS	EN 60079-0,7,31	COMPLIANCE STANDARDS	IEC 60079-0,7,31
EAC CERTIFICATE	RU C-GB.A.07.B.02516/20	DNV CERTIFICATE	TAE000000Y
SANS	IA S-XPL21804 21.0014X	CCC CERTIFICATE	2020322313003450



PRODUCT SELECTION TABLE WITH DUAL SEALING RANGE

DUAL SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
16DTSZE1TA5	16DTSZE2TN5	M16	6.0	12.0	⅜"	11.0	3.0	10.0	20.0	22.0	23.6
20DTSZE1TA5	20DTSZE2TN5	M20	6.5	12.0	½"	14.0	5.0	14.0	24.0	26.4	26.7
25DTSZE1TA5	25DTSZE2TN5	M25	7.0	12.0	¾"	15.0	9.0	18.0	30.0	33.0	32.0
32DTSZE1TA5	32DTSZE2TN5	M32	8.0	12.0	1"	18.0	12.5	25.0	39.0	42.9	37.8
40DTSZE1TA5	40DTSZE2TN5	M40	8.0	15.0	1 ¼"	18.0	19.0	32.0	50.0	55.0	44.7
50DTSZE1TA5	50DTSZE2TN5	M50	9.0	15.0	1 ½"	19.0	22.0	38.0	57.0	62.7	48.7
63DTSZE1TA5	63DTSZE2TN5	M63	10.0	15.0	2"	20.0	28.0	48.0	68.0	74.8	52.2

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

STANDARD SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION							
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	
12TSZE1TA5	12TSZE2TN5	M12	6.0	12.0	¼"	11.0	3.0	6.5	16.0	17.6	22.3
16STSZE1TA5	16STSZE2TN5	M16	6.0	12.0	⅜"	11.0	3.0	7.0	20.0	22.0	23.6
16TSZE1TA5	16TSZE2TN5	M16	6.0	12.0	⅜"	11.0	6.0	10.0	20.0	22.0	23.6
20STSZE1TA5	20STSZE2TN5	M20	6.5	12.0	½"	14.0	5.0	10.0	24.0	26.4	26.7
20TSZE1TA5	20TSZE2TN5	M20	6.5	12.0	½"	14.0	9.0	14.0	24.0	26.4	26.7
25STSZE1TA5	25STSZE2TN5	M25	7.0	12.0	¾"	15.0	9.0	15.5	30.0	33.0	32.0
25TSZE1TA5	25TSZE2TN5	M25	7.0	12.0	¾"	15.0	12.5	18.0	30.0	33.0	32.0
32STSZE1TA5	32STSZE2TN5	M32	8.0	12.0	1"	18.0	12.5	19.0	39.0	42.9	37.8
32TSZE1TA5	32TSZE2TN5	M32	8.0	12.0	1"	18.0	17.0	25.0	39.0	42.9	37.8
40STSZE1TA5	40STSZE2TN5	M40	8.0	15.0	1 ¼"	18.0	19.0	27.0	50.0	55.0	44.7
40TSZE1TA5	40TSZE2TN5	M40	8.0	15.0	1 ¼"	18.0	24.0	32.0	50.0	55.0	44.7
50STSZE1TA5	50STSZE2TN5	M50	9.0	15.0	1 ½"	19.0	22.0	32.0	57.0	62.7	48.7
50TSZE1TA5	50TSZE2TN5	M50	9.0	15.0	1 ½"	19.0	28.0	38.0	57.0	62.7	48.7
63STSZE1TA5	63STSZE2TN5	M63	10.0	15.0	2"	20.0	28.0	39.0	68.0	74.8	52.2
63TSZE1TA5	63TSZE2TN5	M63	10.0	15.0	2"	20.0	37.0	48.0	68.0	74.8	52.2

For NPT threads add a 'T' to the suffix e.g. 16DTSZE1TA5T (⅜" NPT)
For long metric threads add an 'L' to the suffix e.g. 16DTSZE1TA5L (M16, 12mm length of entry thread)

Dimensions are displayed in millimetres unless otherwise stated

TSX DIN 89345

TRUSEAL EMC

TRUSEAL TSX, EMC, INDUSTRIAL CABLE GLAND TO DIN 89345

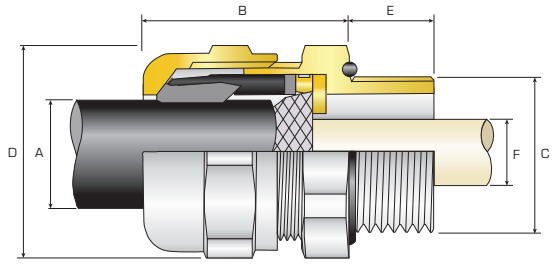
FOR ALL TYPES OF BRAIDED / SCREENED CABLES

shown with standard seal

- Designed for superior EMC performance
- Clamping cone and ring design
- 360° contact around screen circumference
- 3rd party EMC performance tested to EN 55032
- Finger-locking seal provides superior cable retention and strain relief
- 3rd party certified to IEC/EN 62444
- Widest cable range take on the market
- Robust design, high quality materials
- O-ring interface seal included as standard
- Transit disc or IP68, IP69 and IP69K rated IP plug options available
- Product supplied in nickel-plated brass, or stainless steel on request
- Ex eb certified product also available
- Nickel-plated brass locknut available (ordering suffix 2TN)

IP66 IP67 IP68 IP69K

CE +105°C -60°C



TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444, DIN 89345 (EN Metric only)
MECHANICAL CLASSIFICATION*	Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING	IP66, IP67, IP68**, IP69 and IP69K

CABLE GLAND MATERIAL	Nickel-plated brass, Stainless Steel (option)
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Braided
SEALING TECHNIQUE	CMP Unique finger-locking type seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical classifications applied as per IEC/EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

PRODUCT SELECTION TABLE WITH DUAL SEALING RANGE

DUAL SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		CABLE BEDDING DIAMETER 'F'	ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION								
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	MAX	
16DTSX1TA5	16DTSX2TN5	M16	6.0	12.0	⅜"	11.0	3.0	10.0	7.5	20.0	22.0	30.7
20DTSX1TA5	20DTSX2TN5	M20	6.5	12.0	½"	14.0	5.0	14.0	9.5	24.0	26.4	33.8
25DTSX1TA5	25DTSX2TN5	M25	7.0	12.0	¾"	15.0	9.0	18.0	16.0	30.0	33.0	39.0
32DTSX1TA5	32DTSX2TN5	M32	8.0	12.0	1"	18.0	12.5	25.0	20.0	39.0	42.9	45.0
40DTSX1TA5	40DTSX2TN5	M40	8.0	15.0	1 ¼"	18.0	19.0	32.0	25.9	50.0	55.0	52.4
50DTSX1TA5	50DTSX2TN5	M50	9.0	15.0	1 ½"	19.0	22.0	38.0	33.0	57.0	62.7	55.8
63DTSX1TA5	63DTSX2TN5	M63	10.0	15.0	2"	20.0	28.0	48.0	45.0	68.0	74.8	60.9

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

STANDARD SEAL		AVAILABLE ENTRY THREADS 'C'					OVERALL CABLE DIAMETER 'A'		CABLE BEDDING DIAMETER 'F'	ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		STANDARD		OPTION								
CABLE GLAND ONLY	CABLE GLAND WITH LOCKNUT	METRIC	THREAD LENGTH (METRIC) 'E'	LONG THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX	MAX	
12TSX1TA5	12TSX2TN5	M12	6.0	12.0	¼"	11.0	3.0	6.5	5.0	16.0	17.6	30.7
16STSX1TA5	16STSX2TN5	M16	6.0	12.0	⅜"	11.0	3.0	7.0	7.0	20.0	22.0	30.7
16TSX1TA5	16TSX2TN5	M16	6.0	12.0	⅜"	11.0	6.0	10.0	7.5	20.0	22.0	30.7
20STSX1TA5	20STSX2TN5	M20	6.5	12.0	½"	14.0	5.0	10.0	9.5	24.0	26.4	33.8
20TSX1TA5	20TSX2TN5	M20	6.5	12.0	½"	14.0	9.0	14.0	9.5	24.0	26.4	33.8
25STSX1TA5	25STSX2TN5	M25	7.0	12.0	¾"	15.0	9.0	15.5	15.5	30.0	33.0	39.0
25TSX1TA5	25TSX2TN5	M25	7.0	12.0	¾"	15.0	12.5	18.0	16.0	30.0	33.0	39.0
32STSX1TA5	32STSX2TN5	M32	8.0	12.0	1"	18.0	12.5	19.0	19.0	39.0	42.9	45.0
32TSX1TA5	32TSX2TN5	M32	8.0	12.0	1"	18.0	17.0	25.0	20.0	39.0	42.9	45.0
40STSX1TA5	40STSX2TN5	M40	8.0	15.0	1 ¼"	18.0	19.0	27.0	25.9	50.0	55.0	52.4
40TSX1TA5	40TSX2TN5	M40	8.0	15.0	1 ¼"	18.0	24.0	32.0	25.9	50.0	55.0	52.4
50STSX1TA5	50STSX2TN5	M50	9.0	15.0	1 ½"	19.0	22.0	32.0	32.0	57.0	62.7	55.8
50TSX1TA5	50TSX2TN5	M50	9.0	15.0	1 ½"	19.0	28.0	38.0	33.0	57.0	62.7	55.8
63STSX1TA5	63STSX2TN5	M63	10.0	15.0	2"	20.0	28.0	39.0	39.0	68.0	74.8	60.9
63TSX1TA5	63TSX2TN5	M63	10.0	15.0	2"	20.0	37.0	48.0	45.0	68.0	74.8	60.9

For NPT threads add a 'T' to the suffix e.g. 16DTSX1TA5T (¾" NPT)
For long metric threads add an 'L' to the suffix e.g. 16DTSX1TA5L (M16, with 12mm length of entry thread)
Dimensions are displayed in millimetres unless otherwise stated

HOW TO ORDER

The standard ordering references for CMP TruSeal products are stated below. If you have any queries regarding ordering please do not hesitate to contact CMP directly for additional help and support.

SIZE	SEAL TYPE		GLAND TYPE	ACCESSORY REFERENCE		MATERIAL		COLOUR		THREAD OPTION	
12	-	STANDARD	TSP	1TA	STANDARD	-	NYLON	-	BLACK	-	METRIC
16	S	SMALL	TSPE	2TN	LOCKNUT (LN)	5	NICKEL-PLATED BRASS	1	GREY (LIGHT)	L	METRIC LONG
20	D	DUAL	TSPV0	2TD	TRANSIT DISC	4	STAINLESS STEEL	2	GREY (MID)	S	METRIC SLOTTED
25			TSM	2TDN	TRANSIT DISC & LN			3	WHITE	T	NPT
32			TSME	2TP	IP PLUG			4	BLUE	P*	PG
40			TSZ	2TPN	IP PLUG & LN			5	RED		
50			TSX	2TE	EMC LOCKNUT						
63											

16	D		TSPV0	2TN		-		1		L	

Example 1

16DTSPV02TN - M16, DUAL SEAL, TRUSEAL UL94 V0 POLYMER, WITH LOCKNUT, IN LIGHT GREY, WITH LONG ENTRY THREAD

20	-		TSPE	1TA		-		-		T	

Example 2

20TSPE1TAT - 20, STANDARD SEAL, TRUSEAL Ex e POLYMER, IN BLACK WITH 1/2" NPT ENTRY THREAD

32	S		TSM	2TD		5		-		P29	

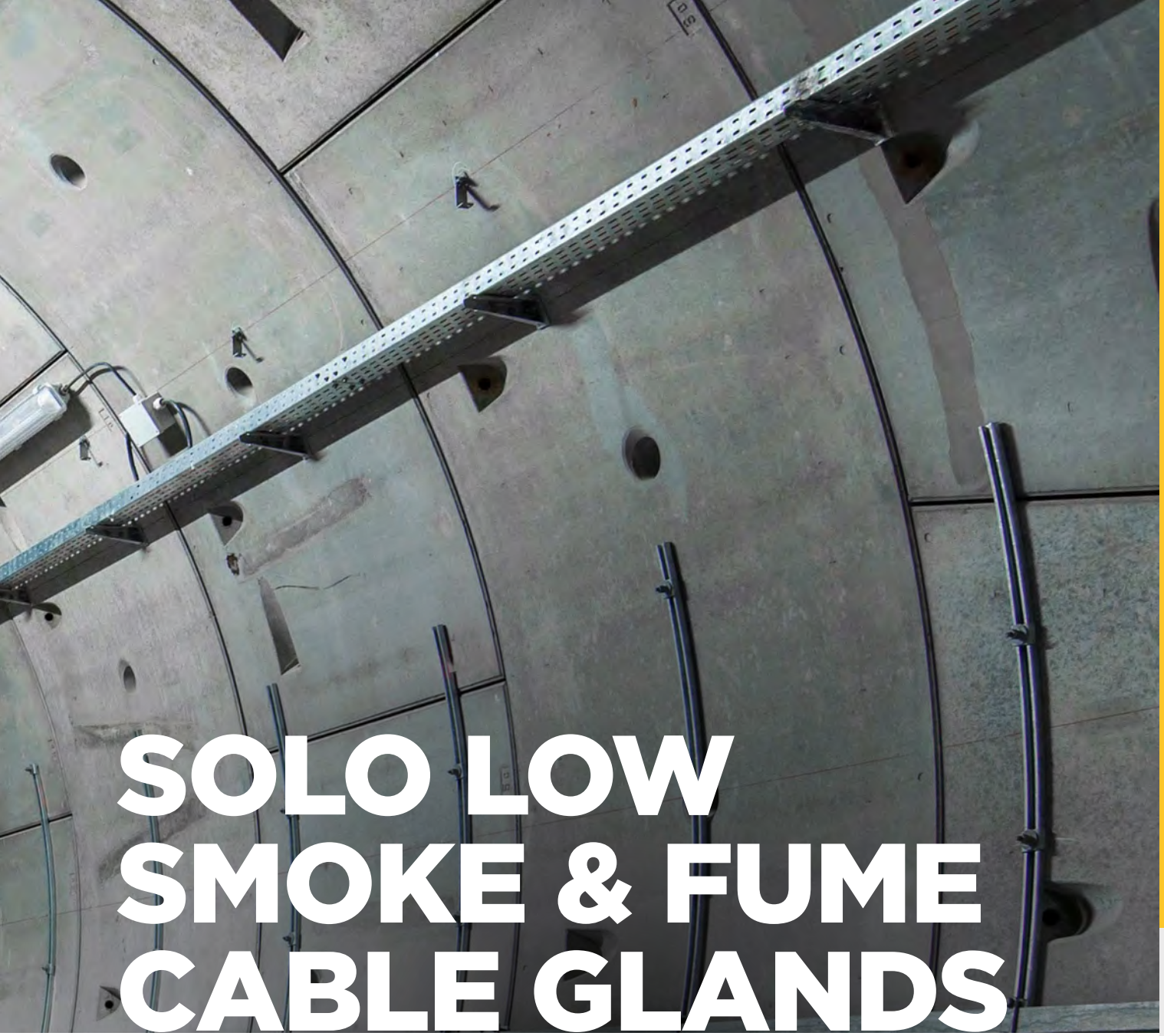
Example 3

32STSM2TD5P29 - 32, SMALL SEAL, TRUSEAL METALLIC, IN NICKEL-PLATED BRASS WITH PG 29 ENTRY THREAD & TRANSIT DISC

Ordering Notes

- See individual product pages for sealing ranges
- Basic list of available accessories shown, more available upon request
- See individual product pages for colour availability
- TSP product provided with blue nut and entry, TSPe provided with blue nut and black entry
- Thread lengths described on individual product pages
- Polymer products do not require a material code
- *PG thread option should be followed by the thread size number shown in the table (right)

SIZE	PG*
12	7
16	9
20	11
	135
	16
25	21
32	29
50	36
63	48



SOLO LOW SMOKE & FUME CABLE GLANDS

The outstanding safety benefits of low smoke and fume (LSF) or halogen free cable materials has led to their increased use in areas considered to be potentially at risk of a fire hazard. Typical examples are in tunnels, metro systems, and public buildings where the risk of smoke inhalation in the event of fire is at its greatest.

The CMP SOLO LSF range of cable glands and accessories meet the most stringent requirements and provide a single, simple solution for specifiers and users in meeting LSF and Halogen Free requirements.

The CMP SOLO LSF option can be provided for all cable glands shown in this catalogue.

CMP SOLO LSF cable glands meet the requirements of the London Underground Fire Safety Regulations and as such, they are LUL approved for use within the London Underground network.

The TruSeal TSPV0 is completely halogen and phosphorous free; extremely flame retardant; and self-extinguishing according to UL94 V-0.

Add LSF2RA after the gland size and type e.g. 25CWLSF2RA to denote that a CMP SOLO gland kit is required.

The cable glands in the following section are shown in nickel plated brass. Alternative materials are available.

BW SOLO

BW INDUSTRIAL CABLE GLAND SOLO LSF KIT

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- Direct & remote installation
- -60˚C to +200˚C
- Superior EMC performance
- LUL (London Underground) approved

EMC +200˚C -60˚C

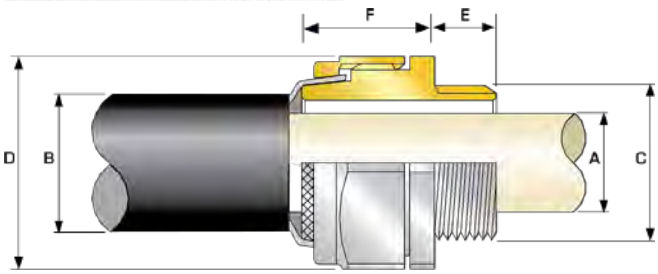
TECHNICAL CLASSIFICATION	
TYPE	BW SOLO-Kit
DESIGN SPECIFICATION	BS 6121 : Part 1:1989
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP2X
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
ARMOUR CLAMPING	Two Part Armour Lock
CABLE GLAND KITS AVAILABLE	Up to & including size 25 - 2 glands, 2 locknuts, 2 earth tags & 2 LSF shrouds Size 32 & above - 1 gland, 1 locknut, 1 earth tag & 1 LSF shroud

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444. As IEC 62444 and EN 62444 do not cover cable glands which are supplied without cable sealing rings, the information provided here is for information only. ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.

Ordering suffix '2RA' includes locknut, earth tag & shroud

Other kit options available

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



Gland Kit shown as example

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE) STANDARD		CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'	ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F' (WITHOUT SHROUD)	CABLE GLAND ONLY WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	MAX	MAX	MIN	MAX	MAX	MAX		
20S	BWLSF	2RA	M20	10.0	11.7	15.8	0.8	1.25	22.0	24.2	18.5	0.052
20	BWLSF	2RA	M20	10.0	14.0	21.1	0.8	1.25	28.0	30.8	22.5	0.088
25	BWLSF	2RA	M25	10.0	20.0	27.2	1.25	1.6	33.0	36.3	21.5	0.110
32	BWLSF	2RA	M32	10.0	26.3	34.1	1.6	2.0	41.0	45.1	22.5	0.149
40	BWLSF	2RA	M40	15.0	32.2	42.4	1.6	2.0	50.0	55.0	30.0	0.316
50S	BWLSF	2RA	M50	15.0	38.2	50.1	2.0	2.5	57.1	62.8	30.0	0.468
50	BWLSF	2RA	M50	15.0	44.1	55.7	2.0	2.5	65.0	71.5	32.0	0.477
63S	BWLSF	2RA	M63	15.0	50.0	62.4	2.0	2.5	75.0	82.5	41.3	0.632
63	BWLSF	2RA	M63	15.0	56.0	68.2	2.0	2.5	79.0	86.9	41.3	0.890
75S	BWLSF	2RA	M75	15.0	62.0	76.8	2.0	2.5	89.0	97.9	47.6	1.268
75	BWLSF	2RA	M75	15.0	68.0	82.9	2.5	3.0	95.0	104.5	49.6	1.400

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'

Examples: 32BWLSF1RA5 = Nickel Plated Brass

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

CW SOLO

CW INDUSTRIAL SINGLE SEAL CABLE GLAND SOLO LSF KIT

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Deluge protection option
- Superior EMC performance
- LUL (London Underground) approved

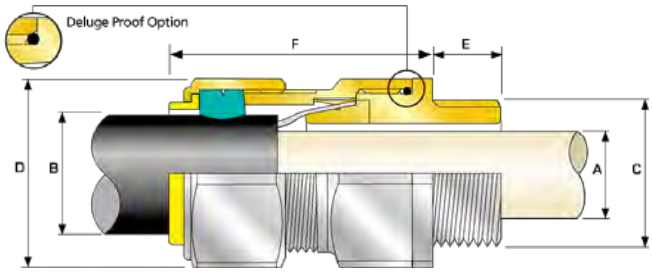
IP66

EMC +130˚C -60˚C

TECHNICAL CLASSIFICATION	
TYPE	CW SOLO-Kit
DESIGN SPECIFICATION	BS 6121 :Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring
CABLE GLAND KITS AVAILABLE	Up to & including size 25 - 2 glands, 2 locknuts, 2 earth tags & 2 LSF shrouds Size 32 & above - 1 gland, 1 locknut, 1 earth tag & 1 LSF shroud

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information
Ordering suffix '2RA' includes locknut, earth tag & shroud
Other kit options available

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



Gland Kit shown as example

COMBINED ORDERING REFERENCE (*BRASS METRIC)			ENTRY THREAD 'C'	THREAD LENGTH (METRIC) 'E'	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F' (WITHOUT SHROUD)	CABLE GLAND ONLY WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX			MAX	MIN	MAX	MIN	MAX	MAX	MAX		
20S16	CWLSF	2RA	M20	10.0	8.7	6.1	13.1	0.8	1.25	24.0	26.4	48.0	0.100
20S	CWLSF	2RA	M20	10.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	0.100
20	CWLSF	2RA	M20	10.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	0.147
25	CWLSF	2RA	M25	10.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	0.224
32	CWLSF	2RA	M32	10.0	26.3	23.7	33.9	1.6	2.0	46.0	50.6	54.0	0.306
40	CWLSF	2RA	M40	15.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	0.448
50S	CWLSF	2RA	M50	15.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	0.567
50	CWLSF	2RA	M50	15.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	0.751
63S	CWLSF	2RA	M63	15.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	1.036
63	CWLSF	2RA	M63	15.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	1.016
75S	CWLSF	2RA	M75	15.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	1.787
75	CWLSF	2RA	M75	15.0	64.2	66.7	78.4	2.5	3.0	100.0	110.0	82.0	2.091

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 20CWLSF2RA5 = Nickel Plated Brass M20, 50 CWLSF2RA = Brass 50mm, 25CWLSF2RA4 = Stainless Steel 25mm

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E1W SOLO

E1W INDUSTRIAL DOUBLE SEAL CABLE GLAND SOLO LSF KIT

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60˚C to +130˚C
- Superior EMC performance
- LUL (London Underground) approved

IP66 IP67 IP68 EMC +130˚C -60˚C

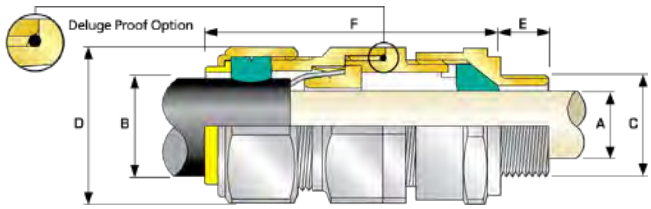
TECHNICAL CLASSIFICATION	
TYPE	E1W SOLO-Kit
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring
CABLE GLAND KITS AVAILABLE	Up to & including size 25 - 2 glands, 2 locknuts, 2 earth tags & 2 LSF shrouds Size 32 & above - 1 gland, 1 locknut, 1 earth tag & 1 LSF shroud

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

Ordering suffix '2RA' includes locknut, earth tag & shroud

Other kit options available

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



Gland Kit shown as example

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F' (WITHOUT SHROUD)	CABLE GLAND ONLY WEIGHT (kg)
			STANDARD				OPTION										
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (METRIC) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX		
20S16	E1WLSF	2RA	M20	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.8	1.25	24.0	26.4	72.5	0.163
20S	E1WLSF	2RA	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	0.150
20	E1WLSF	2RA	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	0.210
25S	E1WLSF	2RA	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	0.330
25	E1WLSF	2RA	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	0.330
32	E1WLSF	2RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	0.430
40	E1WLSF	2RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	90.0	0.620
50S	E1WLSF	2RA	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	91.0	0.750
50	E1WLSF	2RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	95.0	0.950
63S	E1WLSF	2RA	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	102.0	1.340
63	E1WLSF	2RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	104.0	1.340
75S	E1WLSF	2RA	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	2.0	2.5	90.0	99.0	115.0	2.110
75	E1WLSF	2RA	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	2.5	3.0	100.0	110.0	117.0	2.420
90	E1WLSF	2RA	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	3.15	4.0	114.3	125.4	147.0	4.210
100	E1WLSF	2RA	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	4.450
115	E1WLSF	2RA	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	3.15	4.0	133.4	146.7	162.0	6.190
130	E1WLSF	2RA	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	174.0	8.340

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1WLSF2RA5 = Nickel Plated Brass, 32E1WLSF2RA1 = Copper Free Aluminium, 20E1WLSF2RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

A2 SOLO

A2 INDUSTRIAL SINGLE SEAL CABLE GLAND SOLO LSF KIT

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- Displacement type seal
- Deluge protected
- -60˚C to +130˚C
- LUL (London Underground) approved

IP66 IP67 IP68

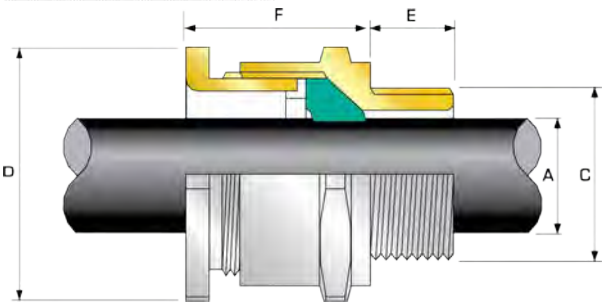
DELUGE PROTECTED

+130˚C / -60˚C

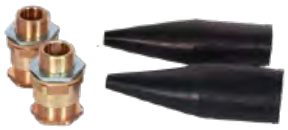
TECHNICAL CLASSIFICATION	
TYPE	A2 SOLO-Kit
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Unarmoured
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Unique Displacement Seal
SEALING AREA(S)	Cable Outer Sheath
CABLE GLAND KITS AVAILABLE	Up to & including size 25 - 2 glands, 2 locknuts & 2 LSF shrouds Size 32 & above - 1 gland, 1 locknut & 1 LSF shroud

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request
Ordering suffix '2RA' includes locknut & shroud
Other kit options available

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



Gland Kit shown as example



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F' (WITHOUT SHROUD)	CABLE GLAND ONLY WEIGHT (kg)
			STANDARD				OPTION						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX		
20S16	A2LSF	2RA	M20	10.0	½"	19.9	¾"	3.2	8.7	24.0	26.4	26.0	0.070
20S	A2LSF	2RA	M20	10.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	26.0	0.060
20	A2LSF	2RA	M20	10.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	27.7	0.070
25	A2LSF	2RA	M25	10.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	35.5	0.130
32	A2LSF	2RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	35.1	0.150
40	A2LSF	2RA	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	35.1	0.200
50S	A2LSF	2RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	33.0	0.260
50	A2LSF	2RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	37.3	0.270
63S	A2LSF	2RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	33.5	0.430
63	A2LSF	2RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	36.2	0.460
75S	A2LSF	2RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	80.0	88.0	34.1	0.520
75	A2LSF	2RA	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	40.9	0.500
90	A2LSF	2RA	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	60.3	1.600
100	A2LSF	2RA	M100	24.0	4"	44.0	5"	76.0	91.0	123.0	135.3	57.2	1.780
115	A2LSF	2RA	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	67.3	2.670
130	A2LSF	2RA	M130	24.0	5"	46.8	6"	97.0	114.9	152.4	167.6	74.7	3.800

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32A2LSF2RA534 = Nickel Plated Brass 1¼" NPT, 50SA2LSF2RA035 = Brass 1½" NPT, 25A2LSF2RA432 = Stainless Steel ¾" NPT, 20A2LSF2RA5 = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

CIEL CAST INTEGRAL EARTH LUG CABLE GLANDS

The Cast Integral Earth Lug (CIEL) concept is intended for external earth connections where it is essential to maintain critical earthing under high level short circuit fault conditions. It is designed to meet IEE earthing regulations and because of its unique design, is particularly suitable for medium and high voltage installation where low resistance earthing is essential.

CMP CIEL cable glands have been subjected to independent third-party short circuit tests to determine their fault current ratings, resulting in the following:

Symmetrical Fault Current (kA) for 1 second:

- 26.0 kA for cable gland sizes up to 40
- 43.0 kA for cable gland sizes 50S and above

The CIEL option is available in various gland types including BWL-CIEL, CW-CIEL, E1W-CIEL and E2W-CIEL. Other options are available on request including versions for explosive atmosphere installations, such as E1FW-CIEL and E2FW-CIEL.

Please state cable gland type and size e.g. 25CWC1RA, where the suffix letter 'C' is used to identify the product type CIEL.

The cable glands in the following section are shown in nickel plated brass. Alternative materials are available.

BWL CIEL

BWL HEAVY DUTY INDUSTRIAL CAST INTEGRAL EARTH LUG CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- External earth connection
- Third party short circuit tested
- Metal-to-metal armour clamping
- Direct & remote installation
- Robust, heavy duty design
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Longer body protects armour wires from impact
- -60˚C to +200˚C
- Superior EMC performance

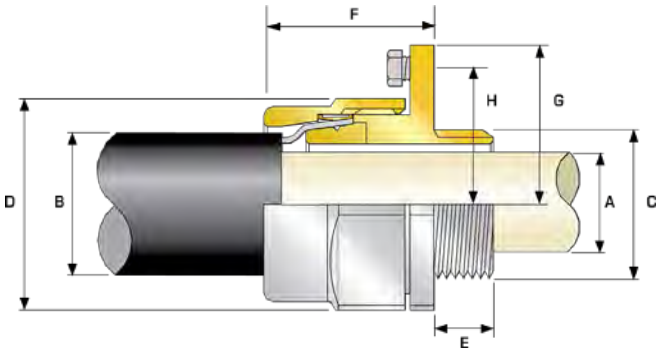
EMC +200˚C -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121 : Part 1: 1989
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules)
ELECTRICAL CLASSIFICATIONS*	Category C
INGRESS PROTECTION RATING**	IP2X
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
ARMOUR CLAMPING	Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444. As IEC 62444 and EN 62444 do not cover cable glands which are supplied without cable sealing rings, the information provided here is for information only, since this product does not fully conform to these standards. ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the BWL CIEL products are as follows:
26.0 kA for Cable Gland sizes up to 40
43.0 kA for Cable Gland sizes 50S and above.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE) STANDARD		CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'	ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	NOMINAL RADIUS DIMENSION		CIEL EARTH BOLT SIZE	EARTH FAULT CURRENT RATING (KA)	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	MAX	MAX	MIN	MAX	MAX	MAX		"H"	"G"			
20S	BWLC	1RA	M20	10.0	11.7	15.9	0.8	1.25	24.0	26.4	32.2	28.6	38.6	M8	26.0	0.112
20	BWLC	1RA	M20	10.0	14.0	20.9	0.8	1.25	30.5	33.6	30.6	31.8	41.8	M8	26.0	0.158
25	BWLC	1RA	M25	10.0	20.0	26.2	1.25	1.6	37.5	41.3	36.4	38.1	50.8	M8	26.0	0.224
32	BWLC	1RA	M32	10.0	26.2	33.9	1.6	2.0	46.0	50.6	32.6	41.3	54.0	M8	26.0	0.244
40	BWLC	1RA	M40	15.0	32.2	40.4	1.6	2.0	55.0	60.5	36.9	50.8	68.3	M10	26.0	0.538
50S	BWLC	1RA	M50	15.0	38.2	46.7	2.0	2.5	60.0	66.0	39.6	57.2	74.6	M12	43.0	0.670
50	BWLC	1RA	M50	15.0	44.1	53.1	2.0	2.5	70.1	77.1	39.1	60.3	79.4	M12	43.0	0.718
63S	BWLC	1RA	M63	15.0	50.0	59.4	2.0	2.5	75.0	82.5	52.0	70.0	90.5	M12	43.0	1.226
63	BWLC	1RA	M63	15.0	56.0	65.9	2.0	2.5	80.0	88.0	49.8	70.0	90.5	M12	43.0	1.178
75S	BWLC	1RA	M75	15.0	62.0	72.1	2.0	2.5	90.0	99.0	63.7	76.2	98.5	M12	43.0	1.859
75	BWLC	1RA	M75	15.0	68.0	78.5	2.5	3.0	100.0	110.0	57.3	82.6	108.0	M12	43.0	2.054
90	BWLC	1RA	M90	24.0	79.0	90.4	3.15	4.0	114.3	125.7	66.0	95.3	108.0	M12	43.0	2.926
100	BWLC	1RA	M100	24.0	90.0	101.5	3.15	4.0	123.0	135.3	80.0	101.6	139.7	M12	43.0	3.032
115	BWLC	1RA	M115	24.0	98.0	110.3	3.15	4.0	133.4	146.7	98.0	112.0	138.5	M12	43.0	4.066
130	BWLC	1RA	M130	24.0	115.0	123.3	3.15	4.0	152.4	167.6	110.0	112.0	138.5	M12	43.0	5.245

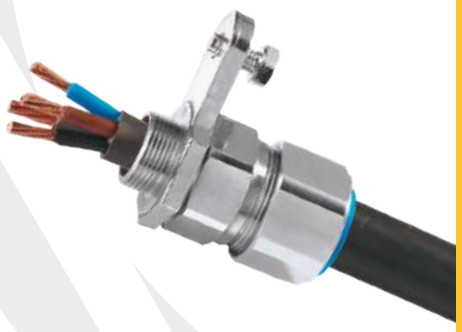
*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
Examples: 32BWL1RA5 = Nickel Plated Brass, 25BWL1RA4 = Stainless Steel
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

CW CIEL

CW INDUSTRIAL SINGLE SEAL CAST INTEGRAL EARTH LUG CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES



- External earth connection
- Third party short circuit tested
- Metal-to-metal armour clamping
- Direct & remote installation
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- -60˚C to +130˚C
- Deluge protection option
- Superior EMC performance

IP66

EMC

+130˚C / -60˚C

CW CIEL

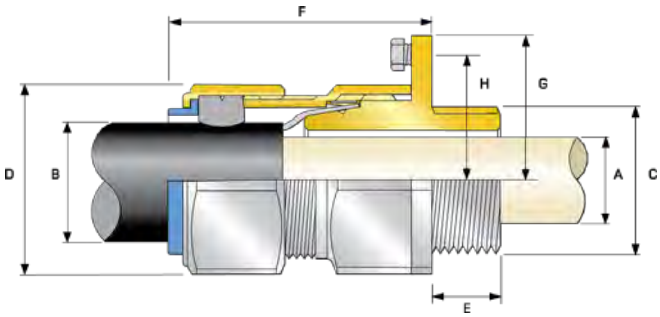
CIEL - CAST INTEGRAL EARTH LUG EQUIPPED CABLE GLANDS

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121 :Part 1:1989, EN 62444, IEC 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category C
INGRESS PROTECTION RATING**	IP66
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the CW CIEL products are as follows:
26.0 kA for Cable Gland sizes up to 40
43.0 kA for Cable Gland sizes 50S and above.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492



COMBINED ORDERING REFERENCE (*BRASS METRIC)			ENTRY THREAD 'C'	THREAD LENGTH 'E'	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	NOMINAL RADIUS DIMENSION		CIEL EARTH BOLT SIZE	EARTH FAULT CURRENT RATING (KA)	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX			MAX	MIN	MAX	MIN	MAX	MAX	MAX		"H"	"G"			
20S	CWC	1RA	M20	10.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	28.6	38.6	M8	26.0	0.195
20	CWC	1RA	M20	10.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	31.8	41.3	M8	26.0	0.276
25S	CWC	1RA	M25	10.0	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	38.1	50.8	M8	26.0	0.436
25	CWC	1RA	M25	10.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	38.1	50.8	M8	26.0	0.435
32	CWC	1RA	M32	10.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	54.0	41.3	54.0	M8	26.0	0.506
40	CWC	1RA	M40	15.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	50.8	68.3	M10	26.0	0.802
50S	CWC	1RA	M50	15.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	57.2	74.6	M12	43.0	0.883
50	CWC	1RA	M50	15.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	60.3	79.4	M12	43.0	1.088
63S	CWC	1RA	M63	15.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	70.0	90.5	M12	43.0	1.636
63	CWC	1RA	M63	15.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	70.0	90.5	M12	43.0	1.597
75S	CWC	1RA	M75	15.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	76.2	98.5	M12	43.0	2.310
75	CWC	1RA	M75	15.0	68.0	66.7	78.4	2.5	3.0	100.0	110.0	82.0	82.6	108.0	M12	43.0	2.717
90	CWC	1RA	M90	24.0	79.0	76.2	90.3	3.15	4.0	114.3	125.7	95.0	95.3	107.1	M12	43.0	4.417
100	CWC	1RA	M100	24.0	90.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	101.6	139.7	M12	43.0	4.820
115	CWC	1RA	M115	24.0	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	112.0	138.5	M12	43.0	6.191
130	CWC	1RA	M130	24.0	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	112.0	138.5	M12	43.0	8.388

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32CWC1RA534 = Nickel Plated Brass 1¼" NPT, 50SCWC1RA035 = Brass 1½" NPT, 25CWC1RA432 = Stainless Steel ¾" NPT, 20CWC1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E1W CIEL

E1W DOUBLE SEAL INDUSTRIAL CAST INTEGRAL EARTH LUG CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- External earth connection
- Third party short circuit tested
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60˚C to +130˚C
- Superior EMC performance

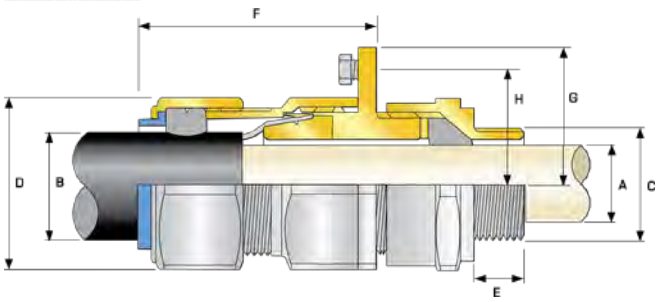
IP66 IP67 IP68 EMC +130˚C -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category C
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the E1W CIEL products are as follows:
26.0 kA for Cable Gland sizes up to 40
43.0 kA for Cable Gland sizes 50S and above.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	RADIUS DIMENSION		CIEL EARTH BOLT SIZE	EARTH FAULT CURRENT RATING (KA)	CABLE GLAND WEIGHT (kg))
			STANDARD				OPTION														
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX		"H"	"G"			
20S	E1WC	1RA	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	28.6	38.6	M8	26.0	0.195
20	E1WC	1RA	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	31.8	41.8	M8	26.0	0.276
25S	E1WC	1RA	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	38.1	50.8	M8	26.0	0.438
25	E1WC	1RA	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	38.1	50.8	M8	26.0	0.435
32	E1WC	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	41.3	54.0	M10	26.0	0.506
40	E1WC	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	90.0	50.8	68.3	M12	26.0	0.802
50S	E1WC	1RA	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	91.0	57.2	74.6	M12	43.0	0.883
50	E1WC	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	95.0	60.3	79.4	M12	43.0	1.038
63S	E1WC	1RA	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	102.0	70.0	90.5	M12	43.0	1.636
63	E1WC	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	104.0	70.0	90.5	M12	43.0	1.597
75S	E1WC	1RA	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	2.0	2.5	90.0	99.0	115.0	76.2	98.5	M12	43.0	2.310
75	E1WC	1RA	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	2.5	3.0	100.0	110.0	117.0	82.6	108.0	M12	43.0	2.717
90	E1WC	1RA	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	3.15	4.0	114.3	125.7	147.0	95.3	127.1	M12	43.0	4.417
100	E1WC	1RA	M100	24.0	4"	44.0	5"	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	102.0	133.8	M12	43.0	4.820
115	E1WC	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	3.15	4.0	133.4	146.7	162.0	95.3	127.1	M12	43.0	6.191
130	E1WC	1RA	M130	24.0	5"	46.8	6"	97.0	114.9	110.2	123.2	3.15	4.0	152.4	167.6	177.0	102.0	133.8	M12	43.0	8.539

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1WC1RA534 = Nickel Plated Brass 1¼" NPT, 50SE1WC1RA035 = Brass 1½" NPT, 20E1WC1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E2W CIEL

E2W INDUSTRIAL DOUBLE SEAL CAST INTEGRAL EARTH LUG CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE LEAD SHEATHED ARMOURED CABLES

- External & internal earth connection
- Third party short circuit tested
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60˚C to +130˚C
- Superior EMC performance

IP66 IP67 IP68 EMC +130˚C -60˚C

E2W CIEL

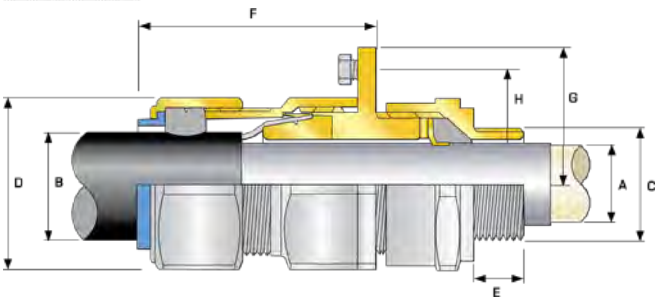
CIEL - CAST INTEGRAL EARTH LUG EQUIPPED CABLE GLANDS

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category C
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
CABLE TYPE	Lead Sheathed & Single Wire Armour (LC/SWA), Lead Sheathed Aluminium Wire Armour (LC/AWA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the E2W CIEL products are as follows:
26.0 kA for Cable Gland sizes up to 40
43.0 kA for Cable Gland sizes 50S and above.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492



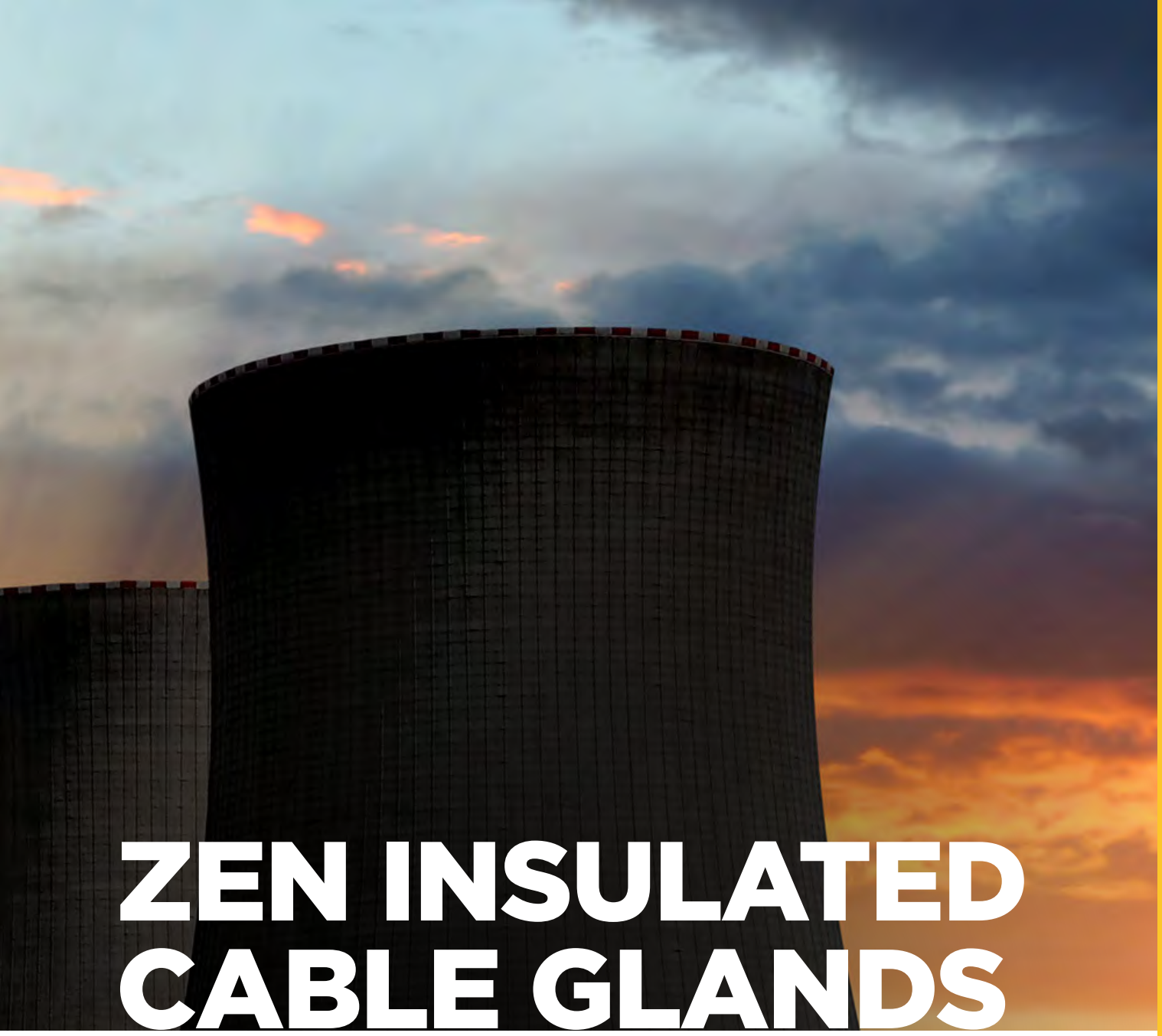
COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	RADIUS DIMENSION		CIEL EARTH BOLT SIZE	EARTH FAULT CURRENT RATING (KA)	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION														
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX		"H"	"G"			
20S	E2WC	1RA	M20	10.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.8	1.25	24.0	26.4	70.0	28.6	38.6	M8	26	0.195
20	E2WC	1RA	M20	10.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.8	1.25	30.5	33.6	73.0	31.8	41.8	M8	26	0.276
25S	E2WC	1RA	M25	10.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	1.25	1.6	37.5	41.3	89.0	38.1	50.8	M8	26	0.438
25	E2WC	1RA	M25	10.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	1.25	1.6	37.5	41.3	89.0	38.1	50.8	M8	26	0.435
32	E2WC	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	1.6	2.0	46.0	50.6	86.0	41.3	54.0	M8	26	0.506
40	E2WC	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	1.6	2.0	55.0	60.5	90.0	50.8	68.3	M10	26	0.802
50S	E2WC	1RA	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	2.0	2.5	60.0	66.0	91.0	57.2	74.6	M12	43	0.883
50	E2WC	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	2.0	2.5	70.1	77.1	95.0	60.3	79.4	M12	43	1.038
63S	E2WC	1RA	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	2.0	2.5	75.0	82.5	102.0	70.0	90.5	M12	43	1.636
63	E2WC	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	2.0	2.5	80.0	88.0	104.0	70.0	90.5	M12	43	1.597
75S	E2WC	1RA	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	2.0	2.5	90.0	99.0	115.0	76.2	98.5	M12	43	2.310
75	E2WC	1RA	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	2.5	3.0	100.0	110.0	117.0	82.6	108.0	M12	43	2.717
90	E2WC	1RA	M90	24.0	3"	42.8	4"	66.6	77.1	76.2	90.3	3.15	4.0	114.3	125.7	147.0	95.3	127.1	M12	43	4.417
100	E2WC	1RA	M100	24.0	4"	44.0	5"	76.0	88.1	86.1	101.4	3.15	4.0	123.0	135.3	140.0	102.0	133.8	M12	43	4.820
115	E2WC	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	3.15	4.0	133.4	146.7	162.0	95.3	127.1	M12	43	6.191
130	E2WC	1RA	M130	24.0	5"	46.8	6"	97.0	110.1	110.2	123.2	3.15	4.0	152.4	167.6	177.0	102.0	133.8	M12	43	8.539

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E2WC1RA534 = Nickel Plated Brass 1¼" NPT, 50SE2WC1RA035 = Brass 1½" NPT, 20E2WC1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.



ZEN INSULATED CABLE GLANDS

The ZEN range of insulated cable glands provide a method which permits the zoning of earth connections for earthed neutral system of supply. ZEN cable glands provide flexibility in the design of the earthing circuit and means of testing earth circuits without disconnecting the cable gland.

Circulating currents can be eliminated and cable noise in instrument cables can be controlled by single point earthing. Insulated components are available in materials tested for use in containment areas of nuclear type pressurised water reactor power stations.

The ZEN range of cable glands are available to suit cables with steel and aluminium wire armour, aluminium strip armour and steel tape armour.

Designed in accordance with BS 6121, EN/IEC 62444. Specified extensively in UK power stations and tested to GDCD190 specification.

Other cable gland solutions specifically designed for terminating screened variable speed drive (VSD) and EMC cables are available with and without an insulated connection. A range of insulated adaptors for use with all cable gland types are available.

Please contact CMP for further details.

B324 B348 ZEN

INSULATED INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- High quality durable materials
- Robust, heavy duty insulated design
- Metal-to-metal armour clamping
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Direct & remote installation
- Enables zoning of earthed neutral systems
- Eliminates circulating currents
- High capacity external earth connection (B324)
- Third party short circuit tested
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Superior EMC performance

IP66

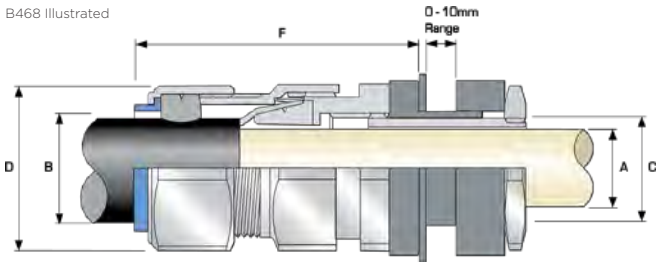
EMC +130˚C -60˚C

TECHNICAL CLASSIFICATION	
TYPE	B324 / B348
DESIGN SPECIFICATION	BS 6121:Part 1:1989, GDCD 190, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (B348) & Category C (B324)
INGRESS PROTECTION RATING**	IP66
STANDARD CABLE GLAND MATERIAL	Brass
ALTERNATIVE CABLE GLAND MATERIAL	Nickel Plated Brass, Aluminium, Stainless Steel
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Three Part Armour Lock With AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492

B468 Illustrated



Earth Tags can only be fitted to the B348 & A348 ZEN Cable Gland types.
The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the B324 and A324 products are as follows:
26.0 kA for Cable Gland sizes up to 40
43.0 kA for Cable Gland sizes 50S and above
Please refer to the CMP CW CIEL product page for dimensional details of the Cast Integral Earth Lug feature included in the B324 and A324 designs.
Aluminium version available for AWA cables. When ordering please substitute letter B in B324 & B348 with letter A.

CABLE GLAND SIZE	ORDERING REFERENCE (BRASS METRIC)		CLEARANCE HOLE DIAMETER 'C'	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD (B348)	CABLE GLAND WEIGHT (kg)
	WITH CIEL LUG (B324)	WITHOUT CIEL LUG (B348)		MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S	20SB3241RA	20SB3481RA	20.6	11.6	9.5	15.9	0.8	1.25	24.0	26.4	58.6	PVC04	0.160
20	20B3241RA	20B3481RA	20.6	13.4	12.5	20.9	0.8	1.25	30.5	33.6	59.9	PVC06	0.220
25S	25SB3241RA	25SB3481RA	25.6	18.9	14.0	22.0	1.25	1.6	37.5	41.3	69.1	PVC09	0.340
25	25B3241RA	25B3481RA	25.6	18.9	18.2	26.2	1.25	1.6	37.5	41.3	69.1	PVC09	0.340
32	32B3241RA	32B3481RA	32.6	24.9	23.7	33.9	1.6	2.0	46.0	50.6	67.6	PVC11	0.440
40	40B3241RA	40B3481RA	40.6	31.9	27.9	40.4	1.6	2.0	55.0	60.5	73.1	PVC15	0.710
50S	50SB3241RA	50SB3481RA	50.7	37.9	35.2	46.7	2.0	2.5	60.0	66.0	72.1	PVC18	0.820
50	50B3241RA	50B3481RA	50.7	42.9	40.4	53.0	2.0	2.5	70.1	77.1	74.2	PVC21	1.060
63S	63SB3241RA	63SB3481RA	63.7	50.1	45.6	59.4	2.0	2.5	75.0	82.5	86.2	PVC23	1.510
63	63B3241RA	63B3481RA	63.7	55.4	54.6	65.8	2.0	2.5	80.0	88.0	86.1	PVC25	1.530
75S	75SB3241RA	75SB3481RA	75.7	61.9	59.0	72.0	2.0	2.5	90.0	99.0	96.5	PVC28	2.100
75	75B3241RA	75B3481RA	75.7	67.4	66.7	78.4	2.5	3.0	100.0	110.0	95.3	PVC30	2.620
90	90B3241RA	90B3481RA	90.8	74.9	76.2	90.3	3.15	4.0	114.0	126.5	107.6	PVC32	3.740

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

B367 B368 ZEN

INSULATED INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF BRAIDED & TAPE ARMOURED CABLES

- Metal-to-metal armour clamping
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Direct & remote installation
- Enables zoning of earthed neutral systems
- Eliminates circulating currents
- High capacity external earth connection (B367)
- Third party short circuit tested
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Superior EMC performance

IP66

EMC +130˚C -60˚C

B367 B368 ZEN

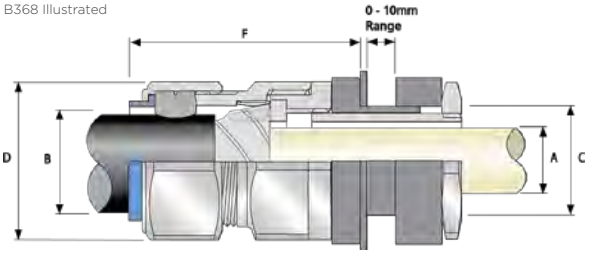
CMP ZEN - INSULATED CABLE GLANDS

TECHNICAL CLASSIFICATION	
TYPE	B367 / B368
DESIGN SPECIFICATION	BS 6121:Part 1:1989, GDCD 190, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (B368) & Category C (B367)
INGRESS PROTECTION RATING**	IP66
STANDARD CABLE GLAND MATERIAL	Brass
ALTERNATIVE CABLE GLAND MATERIAL	Nickel Plated Brass, Aluminium, Stainless Steel
CABLE TYPE	Wire Braid Armour, Pliable Wire Armour (PWA), Steel Tape Armour (STA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Three Part Armour Lock With AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492

B368 Illustrated



Earth Tags can only be fitted to the B368 & A368 ZEN Cable Gland types.
The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the B367 and A367 products are as follows:
26.0 kA for Cable Gland sizes up to 40
43.0 kA for Cable Gland sizes 50S and above
Please refer to the CMP CW CIEL product page for dimensional details of the Cast Integral Earth Lug feature included in the B367 and A367 designs.
Aluminium version available for AWA cables. When ordering please substitute letter B in B324 & B348 with letter A.

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

CABLE GLAND SIZE	ORDERING REFERENCE (BRASS METRIC)		CLEARANCE HOLE DIAMETER 'C'	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD (B368)	CABLE GLAND WEIGHT (kg)
	WITH CIEL LUG (B367)	WITHOUT CIEL LUG (B368)		MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S	20SB3671RA	20SB3681RA	20.6	11.6	9.5	15.9	0.3	1.0	24.0	26.4	58.6	PVC04	0.160
20	20B3671RA	20B3681RA	20.6	13.4	12.5	20.9	0.4	1.0	30.5	33.6	59.9	PVC06	0.220
25S	25SB3671RA	25SB3681RA	25.6	18.9	14.0	22.0	0.4	1.2	37.5	41.3	69.1	PVC09	0.340
25	25B3671RA	25B3681RA	25.6	18.9	18.2	26.2	0.4	1.2	37.5	41.3	69.1	PVC09	0.340
32	32B3671RA	32B3681RA	32.6	24.9	23.7	33.9	0.4	1.2	46.0	50.6	67.6	PVC11	0.440
40	40B3671RA	40B3681RA	40.6	31.9	27.9	40.4	0.4	1.6	55.0	60.5	73.1	PVC15	0.710
50S	50SB3671RA	50SB3681RA	50.7	37.9	35.2	46.7	0.4	1.6	60.0	66.0	72.1	PVC18	0.820
50	50B3671RA	50B3681RA	50.7	42.9	40.4	53.0	0.6	1.6	70.1	77.1	74.2	PVC21	1.060
63S	63SB3671RA	63SB3681RA	63.7	50.1	45.6	59.4	0.6	1.6	75.0	82.5	86.2	PVC23	1.510
63	63B3671RA	63B3681RA	63.7	55.4	54.6	65.8	0.6	1.6	80.0	88.0	86.1	PVC25	1.530
75S	75SB3671RA	75SB3681RA	75.7	61.9	59.0	72.0	0.6	1.6	90.0	99.0	96.5	PVC28	2.100
75	75B3671RA	75B3681RA	75.7	67.4	66.7	78.4	0.6	1.6	100.0	110.0	95.3	PVC30	2.620
90	90B3671RA	90B3681RA	90.8	74.94	76.2	90.3	0.8	1.6	114.0	125.7	107.6	PVC32	3.740

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

B327 B350 ZEN

INSULATED INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES WITH A METALLIC TAPE SCREEN

- High quality durable materials
- Robust, heavy duty insulated design
- Metal-to-metal armour clamping
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Direct & remote installation
- Enables zoning of earthed neutral systems
- Eliminates circulating currents
- High capacity external earth connection (B327)
- Third party short circuit tested
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Superior EMC performance

IP66

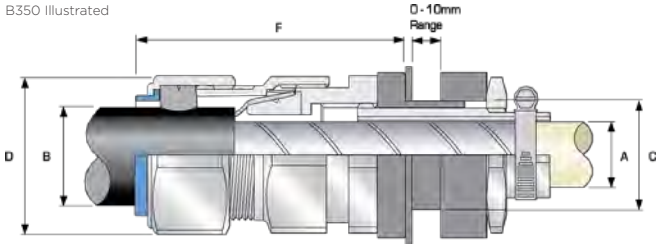
EMC +130˚C -60˚C

TECHNICAL CLASSIFICATION	
TYPE	B327 / B350
DESIGN SPECIFICATION	BS 6121:Part 1:1989, GDCD 190, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (B350) & Category C (B327)
INGRESS PROTECTION RATING**	IP66
STANDARD CABLE GLAND MATERIAL	Brass
ALTERNATIVE CABLE GLAND MATERIAL	Nickel Plated Brass, Aluminium, Stainless Steel
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA) with Metallic Tape Screen
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Three Part Armour Lock With AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492

B350 Illustrated



Earth Tags can only be fitted to the B350 & A350 ZEN gland types.
The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the B327 and A327 products are as follows:
26.0 kA for Cable Gland sizes up to 40
43.0 kA for Cable Gland sizes 50S and above
Please refer to the CMP CW CIEL product page for dimensional details of the Cast Integral Earth Lug feature included in the B327 and A327 designs.
Aluminium version available for AWA cables. When ordering please substitute letter B in B327 & B350 with letter A.

CABLE GLAND SIZE	ORDERING REFERENCE (BRASS METRIC)		CLEARANCE HOLE DIAMETER 'C'	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD (B350)	CABLE GLAND WEIGHT (kg)
	WITH CIEL LUG (B327)	WITHOUT CIEL LUG (B350)		MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S	20SB3271RA	20SB3501RA	20.6	11.6	9.5	15.9	0.8	1.25	24.0	26.4	58.6	PVC04	0.160
20	20B3271RA	20B3501RA	20.6	13.4	12.5	20.9	0.8	1.25	30.5	33.6	59.9	PVC06	0.220
25S	25SB3271RA	25SB3501RA	25.6	18.9	14.0	22.0	1.25	1.6	37.5	41.3	69.1	PVC09	0.340
25	25B3271RA	25B3501RA	25.6	18.9	18.2	26.2	1.25	1.6	37.5	41.3	69.1	PVC09	0.340
32	32B3271RA	32B3501RA	32.6	24.9	23.7	33.9	1.6	2.0	46.0	50.6	67.6	PVC11	0.440
40	40B3271RA	40SB3501RA	40.6	31.9	27.9	40.4	1.6	2.0	55.0	60.5	73.1	PVC15	0.710
50S	50SB3271RA	50SB3501RA	50.7	37.9	35.2	46.7	2.0	2.5	60.0	66.0	72.1	PVC18	0.820
50	50B3271RA	50B3501RA	50.7	42.9	40.4	53.0	2.0	2.5	70.1	77.1	74.2	PVC21	1.060
63S	63SB3271RA	63SB3501RA	63.7	50.1	45.6	59.4	2.0	2.5	75.0	82.5	86.2	PVC23	1.510
63	63B3271RA	63B3501RA	63.7	55.4	54.6	65.8	2.0	2.5	80.0	88.0	86.1	PVC25	1.530
75S	75SB3271RA	75SB3501RA	75.7	61.9	59.0	72.0	2.0	2.5	90.0	99.0	96.5	PVC28	2.100
75	75B3271RA	75B3501RA	75.7	67.4	66.7	78.4	2.5	3.0	100.0	110.0	95.3	PVC30	2.620
90	90B3271RA	90B3501RA	90.8	74.9	76.2	90.3	3.15	4.0	114.0	126.5	107.6	PVC32	3.740

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

B323 B347 ZEN

INSULATED INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- High quality durable materials
- Robust, heavy duty insulated design
- Metal-to-metal armour clamping
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Direct & remote installation
- Enables zoning of earthed neutral systems
- Eliminates circulating currents
- High capacity external earth connection (B347)
- Third party short circuit tested
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Superior EMC performance

IP66

EMC +130˚C -60˚C

B323 B347 ZEN

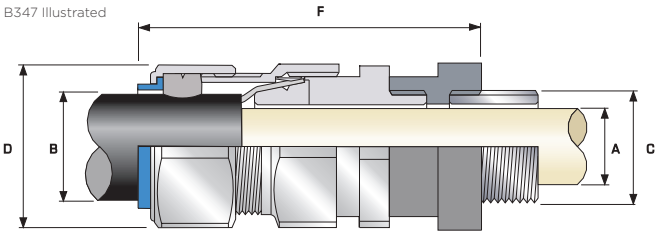
ZEN - INSULATED CABLE GLANDS

TECHNICAL CLASSIFICATION	
TYPE	B323 / B347
DESIGN SPECIFICATION	BS 6121:Part 1:1989, GDCD 190, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (B323) & Category C (B347)
INGRESS PROTECTION RATING**	IP66
STANDARD CABLE GLAND MATERIAL	Brass
ALTERNATIVE CABLE GLAND MATERIAL	Nickel Plated Brass, Aluminium, Stainless Steel
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	Unique CMP 'LRS'™ Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Three Part Armour Lock With AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.

GLOBAL PRODUCT CERTIFICATION	
GOST R CERTIFICATE	04ИДЮ101.GB.C02492

B347 Illustrated



Earth Tags can only be fitted to the B323 & A323 ZEN gland types.
The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the B347 and A347 products are as follows:
26.0 kA for Cable Gland sizes up to 40
43.0 kA for Cable Gland sizes 50S and above
Please refer to the CMP CW CIEL product page for dimensional details of the Cast Integral Earth Lug feature included in the B347 and A347 designs.
Aluminium version available for AWA cables. When ordering please substitute letter B in B323 & B347 with letter A.

CABLE GLAND SIZE	ORDERING REFERENCE (BRASS METRIC)		ENTRY THREAD 'C'	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD (B323)	CABLE GLAND WEIGHT (kg)
	WITH CIEL LUG (B323)	WITHOUT CIEL LUG (B347)		MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S	20SB3231RA	20SB3471RA	M20	11.6	9.5	15.9	0.8	1.25	24.0	26.4	73.6	PVC04	0.190
20	20B3231RA	20B3471RA	M20	13.9	12.5	20.9	0.8	1.25	30.5	33.6	74.9	PVC06	0.240
25S	25SB3231RA	25SB3471RA	M25	19.9	14.0	22.0	1.25	1.6	37.5	41.3	84.1	PVC09	0.350
25	25B3231RA	25B3471RA	M25	19.9	18.2	26.2	1.25	1.6	37.5	41.3	84.1	PVC09	0.350
32	32B3231RA	32B3471RA	M32	26.2	23.7	33.9	1.6	2.0	46.0	50.6	82.5	PVC11	0.470

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

EXPLOSIVE ATMOSPHERE CABLE GLANDS

CMP offers explosive atmosphere cable glands that are tested and certified to the latest global technical standards and through its programme of continuous product development always strives to maintain its certification in line with the very latest technical knowledge.

Offering certified cable gland options for all types of cable, with Ex db, Ex eb, Ex nR and Ex ta forms of protection.

Globally marked products with global certification including UL, cCSAus, IECEx, ATEX and UKEX, allows customers to stock fewer product marked variations for multiple situations.

Some solutions in the standard CMP explosive atmosphere range offer multi-code approvals allowing their deployment under IEC, NEC and CEC installation codes of practice.

The cable glands in the following section are shown in nickel plated brass. Alternative materials are available.

TRITON CDS - RIGHT FIRST TIME INSTALLATION

T3CDS Flameproof Sealing System

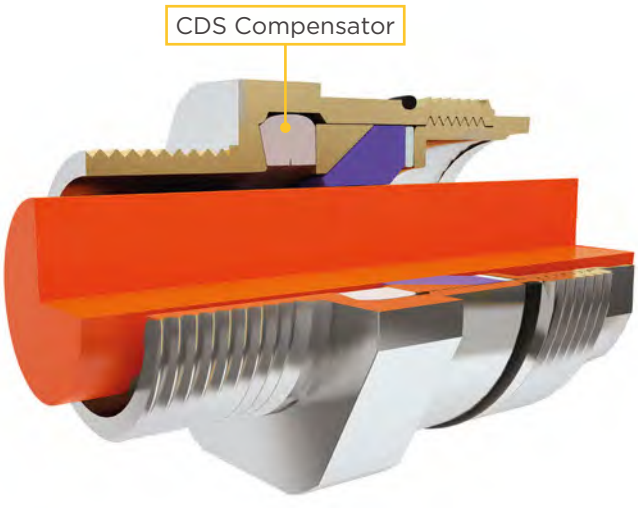
Triton T3CDS cable glands deliver a unique concept in cable sealing techniques incorporating the patented Compensating Displacement Seal system, CDS™.

Introduced to effectively handle all types and sizes of cable construction taking away the concern of the operator, letting the product do the job instead.

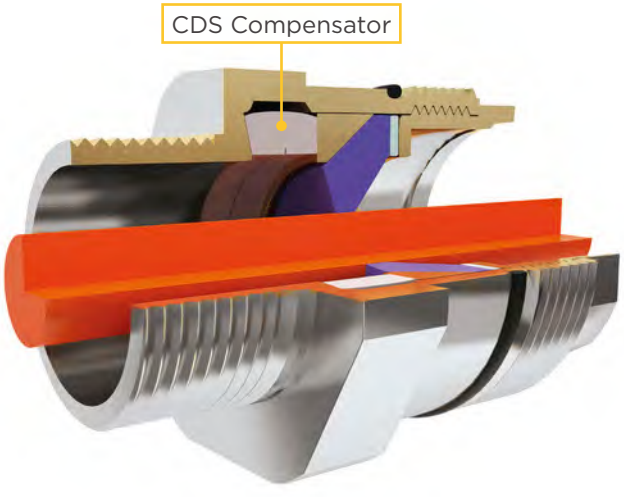
This concept provides effective sealing on the cable inner sheath, utilising a proven reliable and robust flameproof sealing device. The Compensating Displacement Seal (CDS) System has helped CMP to take its original displacement sealing ring concept to another level. The unique compensator has allowed the cable gland components to be fully tightened metal-to-metal and relieve the potential excess forces that could be transferred to the cable bedding, eliminating cable damage.

CDS SYSTEM INNER FLAMEPROOF SEAL

- Unique Compensating Displacement Seal (CDS) system, compatible with all types of cable
- At the critical cable sealing point the CDS system protects the cable inner sheath from any excess force, which is transferred to and absorbed by the internal compensator incorporated in the CDS system
- Allows the cable gland to be tightened metal-to-metal every time regardless of cable diameter



When a larger diameter cable is installed the inner compensator operates to a greater extent.



When a smaller diameter cable is installed the inner compensator operates to a lesser extent.

PRACTICAL INSTALLATION BENEFITS

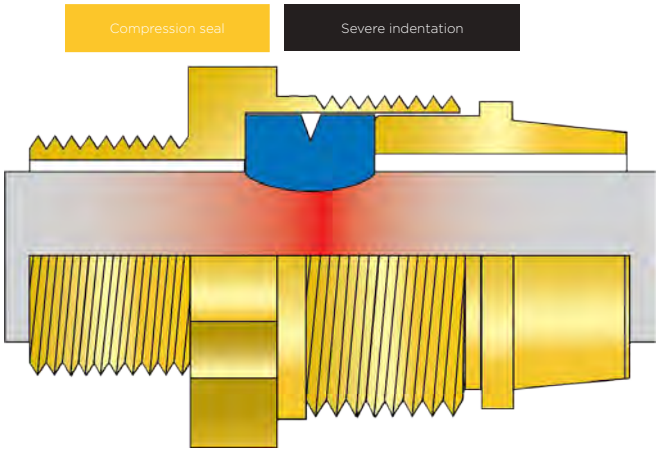
- Fully sequential, three step make off procedure
- Quick and easy assembly process, with metal-to-metal installation every time
- CMP make no exaggerated claims concerning its speed of installation but guarantee a 'right-first-time' installation well within the highest expectations prescribed
- This 'right-first-time' installation concept, helps to reduce down time during plant construction whilst instilling peace of mind in the user
- EMC noise reduction levels for radiation emissions comply with the current European guidelines (providing in the region of 50db attenuation when terminated with screened cable)
- Complies with Low Voltage Directive 73/23/EEC
- Uniform hexagon profile

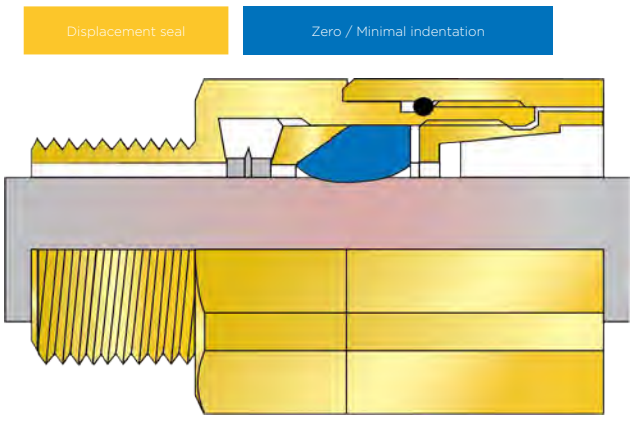
DELUGE PROTECTION SEAL

- Deluge protection by means of tried & tested “O” ring feature – simple and effective arrangement.
- Internal deluge seal is not exposed to mechanical damage or ultra violet radiation after installation and is completely protected in its operational working life, Latest design limits the potential for over tightening.
- There is no need to 'pull' or re-position the deluge seal on installation or subsequent re-assembly after inspection, as the CMP 'O' ring arrangement engages automatically during a simple installation procedure providing effective protection every time.
- Third party tested to Shell DTS:01

ADDITIONAL OPTIONS

- Version for effective termination of lead sheathed cables, designated type (T3CDS/PB)
- T3CDSVAR version available for variable speed drive cables with a copper tape screen
- Integral entry thread seal, which removes the need for separate sealing washers. Designation type RT3CDS or RT3CDS/PB





PATENT GRANTED: GB 1077517

T3CDS TRITON

TRITON CDS (T3CDS) GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

- Fully sequential, three step installation procedure
- Reduces installation times, cost and risk
- Direct and remote installation
- Unique compensating displacement seal system (CDS)
- Metal-to-metal installation every time regardless of cable diameter
- Designed to reduce the effects of coldflow. See CMP Technical Doc TS002
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents over tightening
- -60˚C to +130˚C (standard),
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX

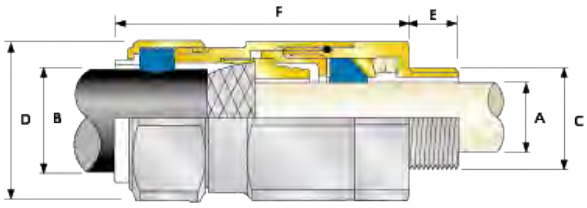
IP66 IP67 IP68 NEMA 4X

EMC DELUGE PROTECTED +130 ˚C ↑ -60 ˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121: Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminium, Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE(S)	Steel / Served Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY/SY), Wire Braid Armour (e.g. SWB)
ARMOUR CLAMPING	Reversible Armour Cone and AnyWay Universal Clamping Ring
SEALING TECHNIQUE	CMP Inner Compensating Displacement Seal (CDS) and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1326X, CML18ATEX4318X	IECEx CERTIFICATE	IECEx CML 18.0183X
UKEX CERTIFICATE	CML 21UKEX1258X, CML 21UKEX4259X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC GC Ⓔx I M2, Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E, F, and G; Class III, Div 1 and 2; Enclosure Type 4X; Oil Resistance II; Class I, Zone 1, AEx e II, AEx nR II		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A, B, C, and D; Class II, Div 2, Groups E, F, and G; Class III, Div 1 and 2; Enclosure Types 3, 4, and 4X; Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	CSA-C22.2 No 0, 18, 25, 30, 94, 174, CSA C22.2 No 60079-0,1,7,15; ANSI/UL 514B, 50, 2225; UL60079-0,1,7,15		
UL CERTIFICATE (20S16 - 90)	E256367		
CODE OF PROTECTION	Class I, Zone 1, AEx e II		
COMPLIANCE STANDARDS	UL 50, 514B, 2225; EN 50014,60529; CSA C22.2 No. 174		
ECAS CERTIFICATE	20-02-05626	UkrSEPRO CERTIFICATE	CЦ 19.0371X
EAC CERTIFICATE	Check website for latest certificate number (excl. ThermEx)		
CODE OF PROTECTION	1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X, IP66, IP67, IP68		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002527	INMETRO APPROVAL	TUV 11.0374X
SANS	IA MS-XPL21804 21.0011X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

Aluminium alloys are not permitted in Group I mining applications

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
									GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	MINIMUM THREAD LENGTH 'E'	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	T3CDS	1RA	M20	15.0	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	78.7	PVC36	0.18
20S	T3CDS	1RA	M20	15.0	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	78.7	PVC36	0.20
20	T3CDS	1RA	M20	15.0	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	76.2	PVC06	0.28
25S	T3CDS	1RA	M25	15.0	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	88.8	PVC09	0.44
25	T3CDS	1RA	M25	15.0	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	88.7	PVC09	0.44
32	T3CDS	1RA	M32	15.0	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	90.7	PVC11	0.63
40	T3CDS	1RA	M40	15.0	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	93.2	PVC15	0.91
50S	T3CDS	1RA	M50	15.0	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	100.7	PVC18	1.12
50	T3CDS	1RA	M50	15.0	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	105.8	PVC21	1.60
63S	T3CDS	1RA	M63	15.0	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.5	PVC23	1.73
63	T3CDS	1RA	M63	15.0	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	105.4	PVC25	1.78
75S	T3CDS	1RA	M75	15.0	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	110.6	PVC28	2.57
75	T3CDS	1RA	M75	15.0	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	120.3	PVC30	3.33
90	T3CDS	1RA	M90	24.0	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	138.9	PVC32	4.87
100	T3CDS	1RA	M100	24.0	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	128.2	LSF33	4.97
115	T3CDS	1RA	M115	24.0	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	161.3	LSF34	7.72
130	T3CDS	1RA	M130	24.0	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	173.3	LSF35	9.78

For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32T3CDS1RA534 = Nickel Plated Brass 1 ¼" NPT, 50ST3CDS1RA035 = Brass 1 ½" NPT, 25T3CDS1RA432 = Stainless Steel ¾" NPT, 20T3CDSPB1RA5 = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

T3CDSPB TRITON

TRITON CDS PB (T3CDSPB) GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF LEAD SHEATHED ARMOURED CABLES

- Effectively earths / grounds lead sheathed cables
- Fully sequential, three step installation procedure
- Direct and remote installation
- Unique compensating displacement seal system (CDS)
- Metal-to-metal installation every time regardless of lead sheath diameter
- Designed to reduce the effects of coldflow, see CMP Technical Document TS002
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked IECEx, ATEX and UKEX
- Superior EMC performance

IP66 IP67 IP68

EMC DELUGE PROTECTED +130˚C -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION

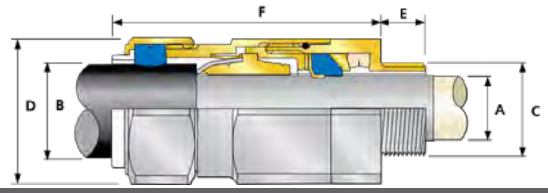
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE(S)	Lead Sheathed and Single Wire Armour (LC/SWA), Lead Sheathed and Aluminium Wire Armour (LC/AWA), Lead Sheathed and Wire Braid Armour (LC/SWB), Lead Sheathed and Pliable Wire Armour (LC/PWA), Lead Sheathed and Steel Tape Armour (LC/STA), Lead Sheathed and Aluminium Strip Armour (LC/ASA)
ARMOUR CLAMPING	Reversible Armour Cone and AnyWay Universal Clamping Ring
SEALING TECHNIQUE	Inner Bedding Sealing Ring: Compensating Displacement Seal (CDS), Outer Sheath Sealing Ring : Load Retention Seal (LRS)
SEALING AREA(S)	Cable Inner Lead Covering and Cable Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

PATENT GRANTED: GB 1077517

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1326X, CML 18ATEX4318X	IECEx CERTIFICATE	IECEx CML 18.0183X
UKEX CERTIFICATE	CML 21UKEX1258X, CML 21UKEX4259X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ⓔx II 3G, Ex nR IIC Gc, Ⓔx I M2, Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
EAC CERTIFICATE	Check website for latest certificate number	UkrSEPRO CERTIFICATE	СЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002527	INMETRO APPROVAL	TUV 11.0374X
SANS	IA MS-XPL21804 21.0011X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminum Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION					GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	T3CDSPB	1RA	M20	15.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	78.7	PVC36	0.20
20S	T3CDSPB	1RA	M20	15.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	78.7	PVC36	0.20
20	T3CDSPB	1RA	M20	15.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	76.2	PVC06	0.28
25S	T3CDSPB	1RA	M25	15.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	88.8	PVC09	0.44
25	T3CDSPB	1RA	M25	15.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	88.7	PVC09	0.44
32	T3CDSPB	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	90.7	PVC11	0.64
40	T3CDSPB	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	93.2	PVC15	0.91
50S	T3CDSPB	1RA	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	100.7	PVC18	1.13
50	T3CDSPB	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	105.8	PVC21	1.61
63S	T3CDSPB	1RA	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.5	PVC23	1.74
63	T3CDSPB	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	105.4	PVC25	1.79
75S	T3CDSPB	1RA	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	110.6	PVC28	2.58
75	T3CDSPB	1RA	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	120.3	PVC30	3.34
90	T3CDSPB	1RA	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	138.9	PVC32	4.89
100	T3CDSPB	1RA	M100	24.0	3 ½"	42.8	4"	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	128.2	LSF33	4.99
115	T3CDSPB	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	161.3	LSF34	7.75
130	T3CDSPB	1RA	M130	24.0	5"	46.8	-	97.0	110.1	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	173.3	LSF35	9.81

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32T3CDSPB1RA534 = Nickel Plated Brass 1 ¼" NPT, 50ST3CDSPB1RA035 = Brass 1 ½" NPT, 25T3CDSPB1RA432 = Stainless Steel ¾" NPT, 20T3CDSPB1RA5 = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

A-100 FEED THROUGH Series - A2F100, A2e100 & RA2e100

100% PULL TEST COMPLIANCE NO SPECIAL CONDITIONS

Conforming to the latest national and international technical standards, the CMP A-100 series of explosive atmosphere cable glands has been designed, tested and certified to withstand the rigorous '100% pull test'.

Due to its unique design, the A-100 series (A2F100, A2e100, RA2e100) removes the need for a cable clamp or cleat before the point of entry where the cable gland is installed; saving time and expense, whilst delivering products that are among the safest in the world.

The displacement-type sealing rings used in the CMP A-100 series are designed for explosion protection and mechanical cable retention in compliance with IEC 60079 standards. These sealing rings exceed the requirements of Clause A3.1.1, Annex A, of IEC 60079-0:2017, which refers to the cable pull out resistance test of 'clamping non-armoured and braided cables'.

The A-100 series is intended for use with all types of unarmoured and braided cables in Zone 1, Zone 2, Zone 21 and Zone 22 explosive atmospheres complying to the latest IEC 60079 standards.

ADDITIONAL FEATURES

- Ingress Protection - The A-100 series includes IEC 60529 specification tests IP66, IP67 & IP68.
- Deluge Protected - The same products have undergone extensive deluge testing to DTS 01 : 91 which surpasses the conditions required by IEC 60529, with accelerated aging tests replicated by a thermal endurance programme applied before the deluge testing process.
- Supplied as standard with IP66, Increased Safety Ex e rated ingress disc for installation prior to the availability of cable.
- Available with different entry thread lengths to suit various applications.

ATEX & IEC Ex certified
Additional approvals held

Ex eb Ex db Ex nR Ex ta

A2e100 in nickel plated brass with ingress disc

EXTREME TESTING

In order to comply with IEC 60079-0:2017 cable glands must be tested for thermal endurance and then be capable of holding a variable but substantial force which is determined by the external cable diameter.

This thermal endurance test is designed to replicate the lifespan of the cable gland and sealing ring, and is intentionally harsh on the product's material and characteristics. Through extensive research and development and due to the high grade of materials used at CMP, the A-100 series functions without fail even after thermal conditioning.

Ultimately the IEC standard requires the cable gland to hold a polished steel mandrel (in place of a cable), for a period of 6 hours, by use of the elastomeric sealing ring only, with a force in Newtons (N) applied equivalent to 20 times the cable diameter.

For a 20mm Ø cable, a 400N force is applied, which equates to 40.76Kg with a maximum slippage of 6mm allowed. This is extremely difficult to achieve for most cable glands of this type.

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

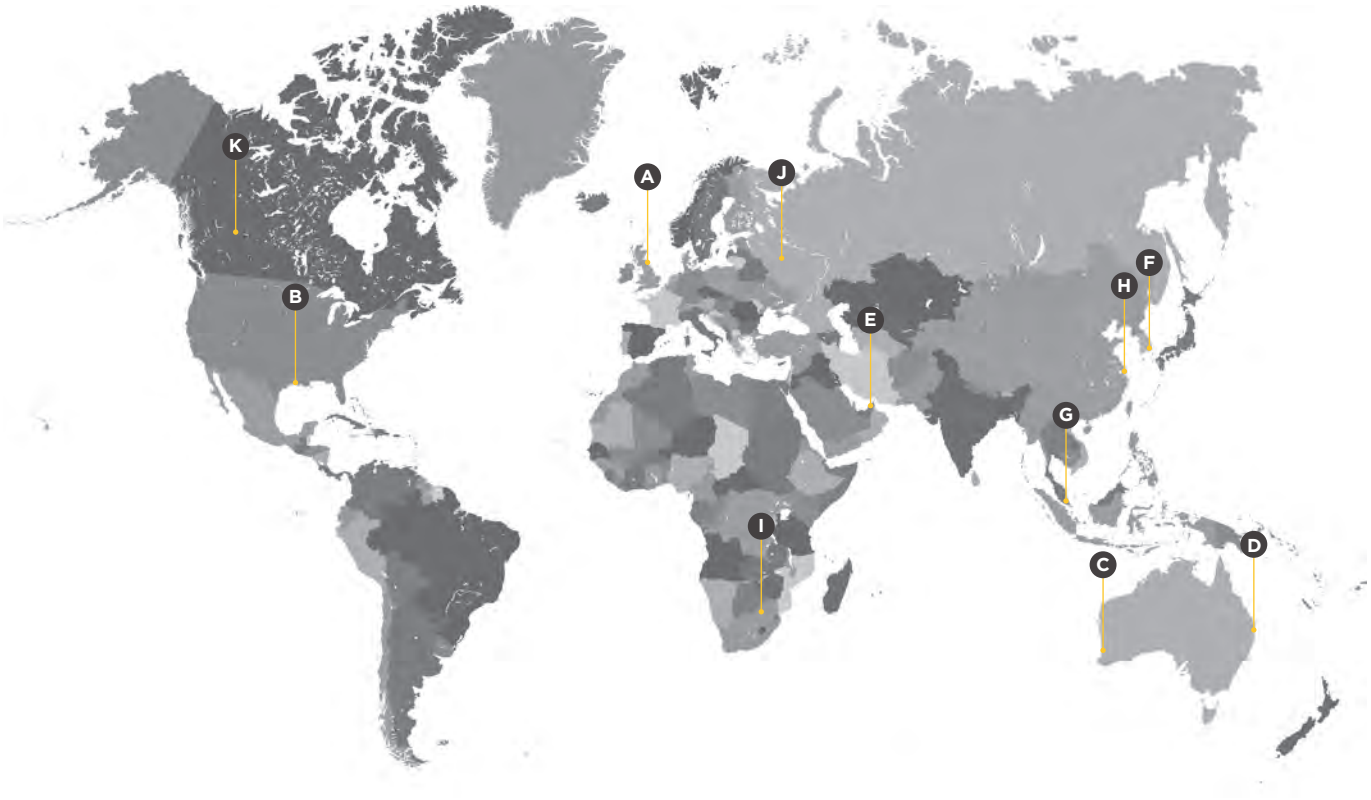
About CMP

SECURING CABLES WORLDWIDE

As a market-leading specialist designer and manufacturer of cable glands, cable cleats and accessories, CMP has been providing safe and innovative solutions to the global market for over 60 years; gaining an international reputation for quality and reliability.

Our products are developed to suit a wide range of hazardous and industrial applications; including industries such as mining, oil & gas, rail, pharmaceuticals and construction. They have been designed and rigorously tested to cover a variety of international codes, standards and approvals.

Our high-quality products are reinforced with exceptional customer service and innovative solutions; we offer on-hand technical support from our experts across the globe, from 10 different offices spread across 6 continents.



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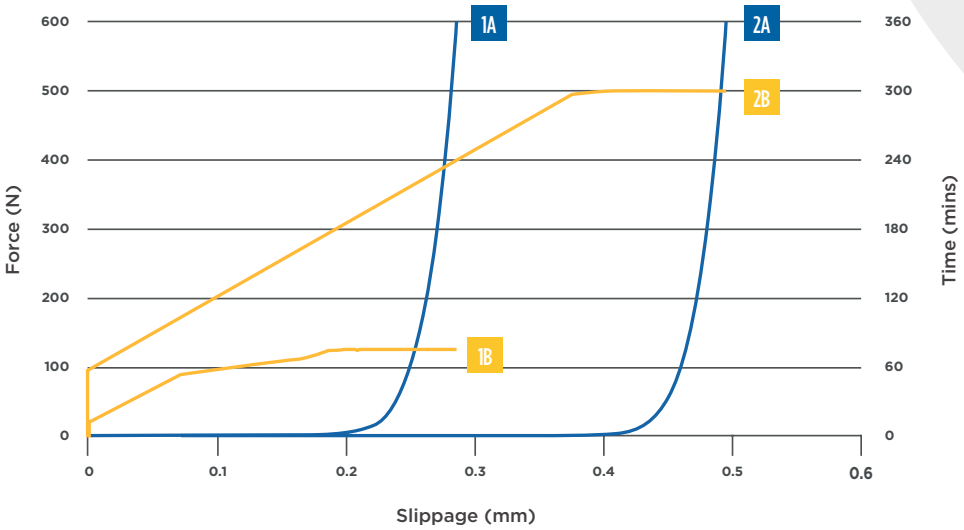


1A	25% Time vs Slippage
1B	25% Force vs Slippage
2A	100% Time vs Slippage
2B	100% Force vs Slippage

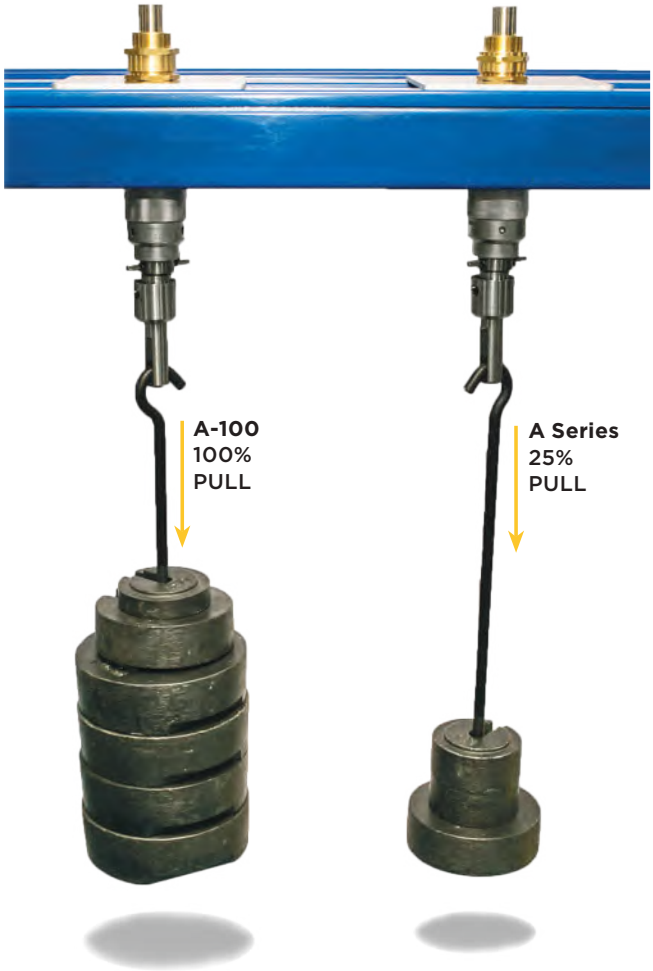
ELIMINATING 'SPECIAL CONDITIONS'

Where a product has not been tested to 100% load, or cannot meet the full test conditions of IEC 60079-0:2017, the standard permits a reduced load test equal to 25% of the declared values. In this case the product certification will contain a special condition, denoted by a suffix letter 'X' at the end of the certificate i.e. "Cable glands for use with unarmoured or braided cables are only suitable for fixed installations, the cable for which must be effectively clamped to prevent pulling and twisting".

When this condition exists there is a need, defined in various installation standards for explosive atmospheres, to secure the cable within a specified distance (preferably 300mm from the end of the cable gland). This is to ensure that the results of any rotational movement or twisting, and pulling forces or tension are not transferred to the cable conductors and their terminations inside the enclosure.

The CMP A-100 series eliminates the need for this additional clamping and surpasses the requirements of IEC 60079-0:2017 without any special conditions.

Contact CMP Products for further information should you have a need for products from the CMP A-100 series.



CMP A-100 and a standard A series cable gland during cable pull out resistance tests.

A2F100

GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- Complies 100% with IEC 60079-0 cable retention requirements
- No 'special conditions' for safe use
- No external cable clamping required by certification
- Displacement type flameproof seal
- Deluge protected
- -60˚C to +130˚C
- Globally marked, UKEX, IECEx and ATEX
- Ingress protection disc available on request

IP66 IP67 IP68

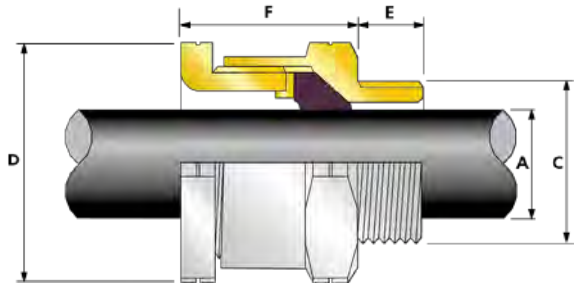
DELUGE PROTECTED

+130˚C -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1307, CML18ATEX4311	IECEx CERTIFICATE	IECEx CML 18.0172 , IECEx SIM 17.0010
UKEX CERTIFICATE	CML 21UKEX1247, CML 21UKEX4248		
CODE OF PROTECTION	Ⓔx II 2G 1D II Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ⓔx II 3G Ex nR IIC Gc Ⓔx I M2 Ex db I Mb, Ex eb I Mb IP66, IP67, IP68	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc, Ex db I Mb, Ex eb I Mb IP66, IP67, IP68
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
CCC CERTIFICATE	2020322313003430	CCOE / PESO CERTIFICATE (INDIA)	P444949
EAC CERTIFICATE	ЕАЭС RU C-GB.АД07.В.02496/20		
CODE OF PROTECTION	Ⓔx PB Ex db I Mb X, Ⓔx РП Ex e I Mc X, Ⓔx 1Ex db IIC Gb X, Ⓔx 1Ex e IIC Gb X, Ⓔx Ex ta IIIC Da X, Ⓔx 2Ex nR IIC Gc X		
SANS	IA MS-XPL21804 21.0002		
MARINE APPROVALS	DNV: TAE000000Y		

COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MIN	MAX	MAX	MAX			
16	A2F100	1RA5	M16	15.0	3.2	8.0	24.0	26.4	34.9	PVC04	0.07
20S16	A2F100	1RA5	M20	15.0	3.2	8.0	24.0	26.4	30.4	PVC04	0.08
20S	A2F100	1RA5	M20	15.0	6.5	11.2	24.0	26.4	31.9	PVC04	0.07
20	A2F100	1RA5	M20	15.0	7.0	13.5	27.0	29.7	35.8	PVC05	0.09
20L	A2F100	1RA5	M20	15.0	8.7	14.0	27.0	29.7	34.3	PVC05	0.09
25	A2F100	1RA5	M25	15.0	11.5	19.5	36.0	39.6	40.4	PVC09	0.16
25L	A2F100	1RA5	M25	15.0	14.0	20.0	36.0	39.6	39.9	PVC09	0.16
32	A2F100	1RA5	M32	15.0	19.0	25.5	41.0	45.1	38.5	PVC10	0.18
32L	A2F100	1RA5	M32	15.0	20.2	26.3	41.0	45.1	35.5	PVC10	0.18
40	A2F100	1RA5	M40	15.0	25.0	32.2	50.0	55.0	38.8	PVC13	0.25
50S	A2F100	1RA5	M50	15.0	31.0	38.2	55.0	60.5	41.4	PVC15	0.33
50	A2F100	1RA5	M50	15.0	35.6	44.0	60.0	66.0	45.8	PVC18	0.35
63S	A2F100	1RA5	M63	15.0	41.5	49.9	70.5	77.6	43.3	PVC21	0.56
63	A2F100	1RA5	M63	15.0	48.2	54.9	75.0	82.5	43.6	PVC23	0.55
75S	A2F100	1RA5	M75	15.0	54.0	61.9	84.0	92.4	45.4	PVC24	0.73
75	A2F100	1RA5	M75	15.0	61.1	67.9	84.0	92.4	49.0	PVC24	0.58
90	A2F100	1RA5	M90	24.0	66.6	79.9	108.0	118.8	66.0	PVC31	1.71
100	A2F100	1RA5	M100	24.0	76.0	89.0	123.0	135.3	72.2	LSF33	2.26
115	A2F100	1RA5	M115	24.0	86.0	97.9	133.4	146.7	67.9	LSF34	2.74
130	A2F100	1RA5	M130	24.0	97.0	114.9	152.4	167.6	81.1	LSF35	4.07

For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2F1001RA534 = Nickel Plated Brass 1 ¼" NPT, 50SA2F1001RA035 = Brass 1 ½" NPT, 25A2F1001RA432 = Stainless Steel ¾" NPT, 20A2F1001RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

A2e100

A2e100 INTERNATIONALLY APPROVED, Ex eb, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- Complies 100% with IEC 60079-0 cable retention requirements
- No special conditions for safe use
- No external cable clamping required by certification
- Displacement type seal
- Deluge protected
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx and ATEX
- 10mm thread lengths available upon request (sizes 32 and below)
- Ingress protection disc available on request

IP66 IP67 IP68

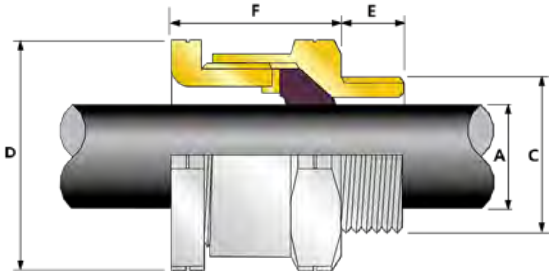
DELUGE PROTECTED

+130˚C -60˚C

Ex eb Ex ta Ex nR

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX3309, CML18ATEX4311	IECEx CERTIFICATE	IECEx CML 18.0174
UKEX CERTIFICATE	CML 21UKEX3244, CML 21UKEX4248		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da IP66, IP67, IP68 Ⓔx II 3G Ex nR IIC Gc Ⓔx I M2 Ex eb I Mb	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc, Ex eb I Mb IP66, IP67, IP68
COMPLIANCE STANDARDS	EN 60079-0,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,7,15,31
MARINE APPROVALS	DNV: TAE000000Y		
ECAS CERTIFICATE	02-02-05633-E20-02-001090/NB0007		
SANS	IA MS-XPL21804 21.0004		

CE Ex IEC IECEx DNV·GL UKCA

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION							
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX			
16	A2E100	1RA	M16	15.0	-	-	-	3.2	8.0	24.0	26.4	34.9	PVC04	0.07
20S16	A2E100	1RA	M20	15.0	½"	19.9	¾"	3.2	8.0	24.0	26.4	30.4	PVC04	0.08
20S	A2E100	1RA	M20	15.0	½"	19.9	¾"	6.5	11.2	24.0	26.4	31.9	PVC04	0.07
20	A2E100	1RA	M20	15.0	½"	19.9	¾"	7.0	13.5	27.0	29.7	35.8	PVC05	0.08
20L	A2E100	1RA	M20	15.0	½"	19.9	¾"	8.7	14.0	27.0	29.7	34.3	PVC05	0.08
25	A2E100	1RA	M25	15.0	¾"	20.2	1"	11.5	19.5	36.0	39.6	40.4	PVC09	0.16
25L	A2E100	1RA	M25	15.0	¾"	20.2	1"	14.0	20.0	36.0	39.6	39.9	PVC09	0.16
32	A2E100	1RA	M32	15.0	1"	25.0	1 ¼"	19.0	25.5	41.0	45.1	38.5	PVC10	0.19
32L	A2E100	1RA	M32	15.0	1"	25.0	1 ¼"	20.2	26.3	41.0	45.1	35.5	PVC10	0.19
40	A2E100	1RA	M40	15.0	1 ¼"	25.6	1 ½"	25.0	32.2	50.0	55.0	38.8	PVC13	0.25
50S	A2E100	1RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	41.4	PVC15	0.33
50	A2E100	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	45.8	PVC18	0.35
63S	A2E100	1RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	43.3	PVC21	0.56
63	A2E100	1RA	M63	15.0	2 ½"	39.9	3"	48.2	54.9	75.0	82.5	43.6	PVC23	0.55
75S	A2E100	1RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	45.4	PVC24	0.73
75	A2E100	1RA	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	49.0	PVC24	0.58
90	A2E100	1RA	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	66.0	PVC31	1.71
100	A2E100	1RA	M100	24.0	3 ½"	42.8	4"	76.0	89.0	123.0	135.3	72.2	LSF33	2.26
115	A2E100	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	67.9	LSF34	2.74
130	A2E100	1RA	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	81.1	LSF35	4.07

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2E1001RA534 = Nickel Plated Brass 1 ¼" NPT, 50SA2E1001RA035 = Brass 1 ½" NPT, 25A2E1001RA432 = Stainless Steel ¾" NPT, 20A2E1001RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

A2F

A2F GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- Displacement type flameproof seal
- Deluge protected
- -60˚C to +130˚C
- Globally marked, UKEX, IECEx, ATEX and CSA

IP66 IP67 IP68

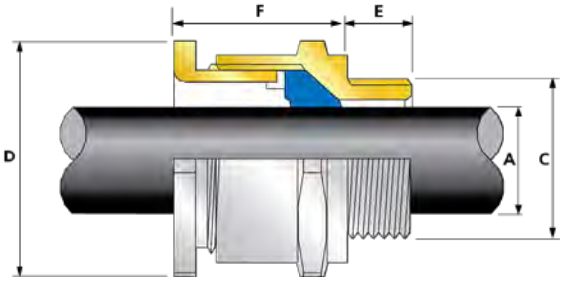
DELUGE PROTECTED

+130˚C -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided when terminated inside enclosure
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1321X, CML18ATEX4313X	IECEx CERTIFICATE	IECEx CML 18.0179X
UKEX CERTIFICATE	CML 21UKEX1245X, CML 21UKEX4246X		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
CSA CERTIFICATE	1211841		
CODE OF PROTECTION	Type 4X: Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	C22.2 No 0,0.4, 94, 174, CAN/CSA-E60079-0,1,7,15		
EAC CERTIFICATE	RU C-GB.АД07.B.02519/20	UkrSEPRO CERTIFICATE	СЦ 19.0371X
KCs KOSHA CERTIFICATE	13_GA4BO_0748X ; 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002951	INMETRO APPROVAL	TÜV 21.1075X
ECAS CERTIFICATE	20-02-05362		
SANS	IA S-XPL21804 21.0008X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION							
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX			
16	A2F	1RA	M16	15.0	-	-	-	3.2	8.7	24.0	26.4	29.9	PVC04	0.060
20S16	A2F	1RA	M20	15.0	½"	19.9	¾"	3.2	8.7	24.0	26.4	26.0	PVC04	0.070
20S	A2F	1RA	M20	15.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	26.0	PVC04	0.060
20	A2F	1RA	M20	15.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	27.7	PVC05	0.070
25	A2F	1RA	M25	15.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	35.5	PVC09	0.130
32	A2F	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	35.1	PVC10	0.150
40	A2F	1RA	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	35.1	PVC13	0.200
50S	A2F	1RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	33.0	PVC15	0.260
50	A2F	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	37.3	PVC18	0.270
63S	A2F	1RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	33.5	PVC21	0.430
63	A2F	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	36.2	PVC23	0.400
75S	A2F	1RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	34.1	PVC24	0.520
75	A2F	1RA	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	40.9	PVC24	0.500
90	A2F	1RA	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	60.3	PVC31	1.600
100	A2F	1RA	M100	24.0	3 ½"	42.8	4"	76.0	91.0	123.0	135.3	57.2	LSF33	1.780
115	A2F	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	67.3	LSF34	2.670
130	A2F	1RA	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	74.7	LSF35	3.800

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2F1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SA2F1RA035 = Brass 1 ½" NPT, 25A2F1RA432 = Stainless Steel ¾" NPT, 20A2F1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

A2e

A2e INTERNATIONALLY APPROVED, Ex eb, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- Displacement type seal
- Deluge protected
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx and ATEX
- 10mm thread length on sizes 32 and below

IP66 IP67 IP68

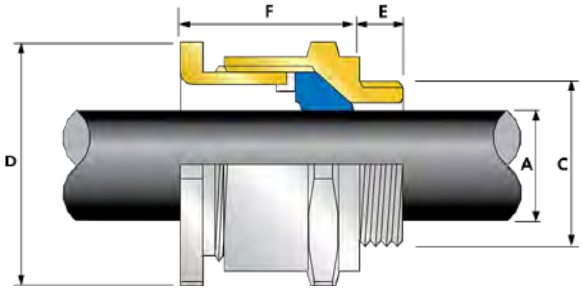
DELUGE PROTECTED

+130˚C -60˚C

Ex eb Ex ta Ex nR

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided when terminated inside enclosure
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML 18ATEX1321X, CML18ATEX4313X	IECEx CERTIFICATE	IECEx CML 18.0179X
UKEX CERTIFICATE	CML 21UKEX1245X, CML 21UKEX4246X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc	CODE OF PROTECTION	Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0, 7, 15, 31	COMPLIANCE STANDARDS	IEC 60079-0,7,15,31
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002951	SANS	IA S-XPL21804 21.0008X
KCs KOSHA CERTIFICATE	13-GA4BO-0748X; 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X		
ECAS CERTIFICATE	20-02-05631		
MARINE APPROVALS	DNV: TAE000000Y, ABS: 16-LD1478091-PDA, LRS: 01/00172, BV: 43180		

Please contact CMP when choosing accessories for sizes 90 and above due to sizing restrictions

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION							
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX			
16	A2E	1RA	M16	10.0	-	-	-	3.2	8.7	24.0	26.4	29.9	PVC02	0.060
20S16	A2E	1RA	M20	10.0	½"	19.9	¾"	3.2	8.7	24.0	26.4	26.0	PVC04	0.070
20S	A2E	1RA	M20	10.0	½"	19.9	¾"	6.1	11.7	24.0	26.4	26.0	PVC04	0.060
20	A2E	1RA	M20	10.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	27.7	PVC05	0.070
25	A2E	1RA	M25	10.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	35.5	PVC09	0.130
32	A2E	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	35.1	PVC10	0.150
40	A2E	1RA	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	35.1	PVC13	0.200
50S	A2E	1RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	33.0	PVC15	0.260
50	A2E	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	37.3	PVC18	0.270
63S	A2E	1RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	33.5	PVC21	0.430
63	A2E	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	36.2	PVC23	0.400
75S	A2E	1RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	34.1	PVC24	0.520
75	A2E	1RA	M75	15.0	3"	41.5	3 ½"	61.1	67.9	84.0	92.4	40.9	PVC24	0.500
90	A2E	1RA	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	60.3	PVC31	1.600
100	A2E	1RA	M100	24.0	3 ½"	42.8	4"	76.0	91.0	123.0	135.3	57.2	LSF33	1.780
115	A2E	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	67.3	LSF34	2.670
130	A2E	1RA	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	74.7	LSF35	3.800

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2E1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SA2E1RA035 = Brass 1 ½" NPT, 25A2E1RA432 = Stainless Steel ¾" NPT, 20A2E1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

RA2e

RA2e INTERNATIONALLY APPROVED, Ex eb, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- O-ring face seal as standard
- 10mm thread length on sizes 32 and below
- Displacement type seal
- Deluge protected
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx and ATEX

IP66 IP67 IP68

DELUGE PROTECTED

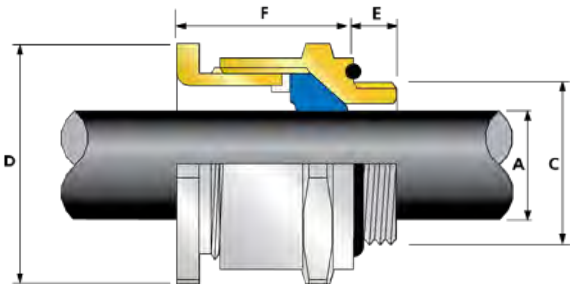
+130˚C / -60˚C

Ex eb Ex ta Ex nR

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided when terminated inside enclosure
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.

*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1321X, CML18ATEX4313X	IECEx CERTIFICATE	IECEx CML 18.0179X
UKEX CERTIFICATE	CML 21UKEX1245X, CML 21UKEX4246X		
CODE OF PROTECTION	Ex II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da Ex II 3G, Ex nR IIC Gc	CODE OF PROTECTION	Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,7,15,31
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	ECAS CERTIFICATE	20-02-05362
KCs KOSHA CERTIFICATE ATE	13-GA4BO-0748X; 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X		
CCOE / PESO (INDIA) CERTIFICATE	P444949		
NEPSI CERTIFICATE	GYJ18.1249X		
MARINE APPROVALS	DNV: TAE000000Y, ABS: 16-LD1478091PDA, LRS: 01/00172; BV: 43180		

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION							
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX			
16	RA2E	1RA	M16	10.0	-	-	-	3.2	8.7	27.0	29.7	29.9	PVC05	0.060
20S16	RA2E	1RA	M20	10.0	½"	19.9	¾"	3.2	8.7	27.0	29.7	26.0	PVC05	0.070
20S	RA2E	1RA	M20	10.0	½"	19.9	¾"	6.1	11.7	27.0	29.7	26.0	PVC05	0.060
20	RA2E	1RA	M20	10.0	½"	19.9	¾"	6.5	14.0	27.0	29.7	27.7	PVC05	0.070
25	RA2E	1RA	M25	10.0	¾"	20.2	1"	11.1	20.0	36.0	39.6	35.5	PVC09	0.130
32	RA2E	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.3	41.0	45.1	35.1	PVC10	0.150
40	RA2E	1RA	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.2	50.0	55.0	35.1	PVC13	0.200
50S	RA2E	1RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	60.0	66.0	33.0	PVC18	0.260
50	RA2E	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	37.3	PVC18	0.270
63S	RA2E	1RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	75.0	82.5	33.5	PVC23	0.430
63	RA2E	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	75.0	82.5	36.2	PVC23	0.400
75S	RA2E	1RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	90.0	99.0	34.1	PVC27	0.520
75	RA2E	1RA	M75	15.0	3"	41.5	3 ½"	61.1	67.9	89.0	97.9	40.9	PVC27	0.500
90	RA2E	1RA	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	60.3	PVC31	1.600
100	RA2E	1RA	M100	24.0	3 ½"	42.8	4"	76.0	91.0	123.0	135.3	57.2	LSF33	1.780
115	RA2E	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	67.3	LSF34	2.670
130	RA2E	1RA	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	74.7	LSF35	3.800

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32RA2E1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SRA2E1RA035 = Brass 1 ½" NPT, 25RA2E1RA432 = Stainless Steel ¾" NPT, 20RA2E1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

RA2e100

RA2e100 INTERNATIONALLY APPROVED, Ex eb, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- Complies 100% with IEC 60079-0 cable retention requirements
- No special conditions for safe use
- No external cable clamping required by certification
- Displacement type seal
- Deluge protected
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx & ATEX
- Supplied with face seal
- 10mm thread lengths available upon request (sizes 32 and below)
- Ingress protection disc available on request

IP66 IP67 IP68

DELUGE PROTECTED

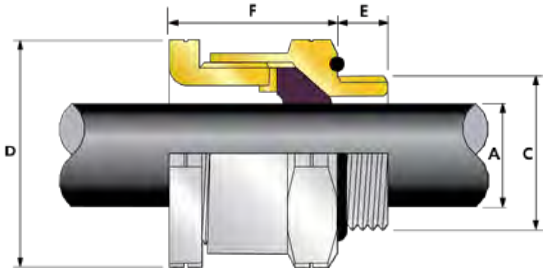
+130˚C / -60˚C

Ex eb Ex ta Ex nR

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured & Braided
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Cable Outer Sheath

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX3309, CML18ATEX4311	IECEx CERTIFICATE	IECEx CML 18.0174
UKEX CERTIFICATE	CML 21UKEX3244, CML 21UKEX4248		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da IP66, IP67, IP68 Ⓔx II 3G Ex nR IIC Gc Ⓔx I M2 Ex eb I Mb	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc, Ex eb I Mb IP66, IP67, IP68
COMPLIANCE STANDARDS	EN 60079-0,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,7,15,31
NEPSI CERTIFICATE	GYJ18.1257X	MARINE APPROVALS	DNV: TAE000000Y
ECAS CERTIFICATE	02-02-05633-E20-02-001090/NB0007		



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION							
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX			
16	RA2E100	1RA	M16	15.0	-	-	-	3.2	8.0	24.0	26.4	34.9	PVC05	0.07
20S16	RA2E100	1RA	M20	15.0	½"	19.9	¾"	3.2	8.0	27.0	29.7	31.4	PVC05	0.08
20S	RA2E100	1RA	M20	15.0	½"	19.9	¾"	6.5	11.2	27.0	29.7	32.1	PVC05	0.07
20	RA2E100	1RA	M20	15.0	½"	19.9	¾"	7.0	13.5	27.0	29.7	35.8	PVC05	0.08
20L	RA2E100	1RA	M20	15.0	½"	19.9	¾"	8.7	14.0	27.0	29.7	34.3	PVC05	0.08
25	RA2E100	1RA	M25	15.0	¾"	20.2	1"	11.5	19.5	36.0	39.6	40.4	PVC09	0.16
25L	RA2E100	1RA	M25	15.0	¾"	20.2	1"	14.0	20.0	36.0	39.6	39.9	PVC09	0.16
32	RA2E100	1RA	M32	15.0	1"	25.0	1 ¼"	19.0	25.5	41.0	45.1	38.5	PVC10	0.19
32L	RA2E100	1RA	M32	15.0	1"	25.0	1 ¼"	20.2	26.3	41.0	45.1	38.9	PVC10	0.19
40	RA2E100	1RA	M40	15.0	1 ¼"	25.6	1 ½"	25.0	32.2	50.0	55.0	39.1	PVC13	0.25
50S	RA2E100	1RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	60.0	66.0	41.1	PVC18	0.33
50	RA2E100	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	45.8	PVC18	0.35
63S	RA2E100	1RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	75.0	82.5	43.3	PVC23	0.56
63	RA2E100	1RA	M63	15.0	2 ½"	39.9	3"	48.2	54.9	75.0	82.5	43.6	PVC23	0.55
75S	RA2E100	1RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	89.9	98.9	45.4	PVC26	0.73
75	RA2E100	1RA	M75	15.0	3"	41.5	3 ½"	61.1	67.9	89.9	98.9	49.0	PVC27	0.58
90	RA2E100	1RA	M90	24.0	3 ½"	42.8	4"	66.6	79.9	108.0	118.8	66.0	PVC31	1.71
100	RA2E100	1RA	M100	24.0	3 ½"	42.8	4"	76.0	89.0	123.0	135.3	71.2	LSF33	2.26
115	RA2E100	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	133.4	146.7	69.9	LSF34	2.74
130	RA2E100	1RA	M130	24.0	5"	46.8	-	97.0	114.9	152.4	167.6	81.1	LSF35	4.07

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32RA2E1001RA534 = Nickel Plated Brass 1¼" NPT, 50SRA2E1001RA035 = Brass 1½" NPT, 25RA2E1001RA432 = Stainless Steel ¾" NPT, 20RA2E1001RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

A2FFC

A2FFC GLOBALLY APPROVED, FLEXIBLE CONDUIT EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES HOUSED IN CONDUIT

- Designed for flexible and rigid conduits
- Rigid conduits require thread adaptor from conduit supplier
- Suitable for conduit with rubber sheath / coating
- Displacement type flameproof seal
- -60˚C to +130˚C
- Globally marked, UKEX, IECEx, ATEX and CSA

IP66

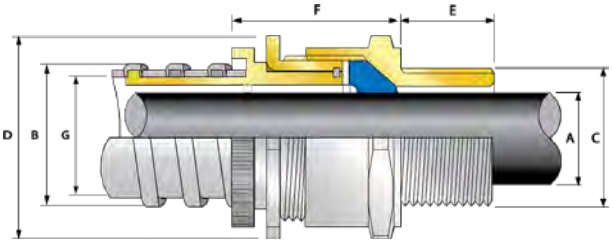
+130˚C
-60˚C

Ex db | Ex eb | Ex ta | Ex nR

TECHNICAL DATA

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided Housed in Flexible Conduit
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
Alternative conduit sizes available upon request.
Ordering Suffix - e.g. C (conduit) 050 (CMP sizing reference)



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1321X, CML18ATEX4313X	IECEx CERTIFICATE	IECEx CML 18.0179X
UKEX CERTIFICATE	CML 21UKEX1245X, CML 21UKEX4246X		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G Ex nR IIC Gc	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
CSA CERTIFICATE	1211841		
CODE OF PROTECTION	Ex d IIC, Ex e II, Ex nR II, Enclosure Type 4x		
COMPLIANCE STANDARDS	C22.2 No 0,0.4, 94, 174, CAN/CSA-60079-0,1,7,15		
EAC CERTIFICATE	RU C-GB.АД07.B.02519/20	UkrSEPRO CERTIFICATE	СЦ 19.0371X
KCs KOSHA CERTIFICATE	13_GA4BO_0748X; 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002951	INMETRO APPROVAL	TÜV 21.1075X
ECAS CERTIFICATE	20-02-05362	SANS	IA S-XPL21804 21.0008X
MARINE APPROVALS	LRS: 01/00172, ABS: 20-LD1948801-PDA		

COMBINED ORDERING REFERENCE ("BRASS METRIC)			ENTRY THREADS 'C'	THREAD LENGTH (METRIC) 'E' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)	DIAMETER OF CABLE 'A'		SPECIFIC INTERNAL DIAMETER OF CONDUIT "G"	MAXIMUM EXTERNAL DIAMETER OF CONDUIT 'B'	ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	MAXIMUM ENVELOPE DIAMETER	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX			MIN	MAX			MAX	MAX			
20S16	A2FFC	1RAC000	M20 x 1.5	15.0	3.2	4.1	5.1	12.0	24.0	26.4	33.2	26.4	0.09
20S16	A2FFC	1RAC001	M20 x 1.5	15.0	3.2	5.2	6.8	13.0	24.0	26.4	33.2	26.4	0.09
20S16	A2FFC	1RAC004	M20 x 1.5	15.0	3.2	5.5	7.8	13.0	24.0	26.4	33.2	26.4	0.09
20S16	A2FFC	1RAC009	M20 x 1.5	15.0	3.2	8.0	9.1	15.0	24.0	26.4	33.2	26.4	0.08
20S16	A2FFC	1RAC010	M20 x 1.5	15.0	3.2	8.1	9.5	15.0	24.0	26.4	33.2	26.4	0.09
20S16	A2FFC	1RAC020	M20 x 1.5	15.0	3.2	8.1	10.2	16.0	24.0	26.4	33.2	26.4	0.09
20S16	A2FFC	1RAC025	M20 x 1.5	15.0	3.2	8.1	10.9	17.0	24.0	26.4	33.2	26.4	0.09
20S16	A2FFC	1RAC030	M20 x 1.5	15.0	3.2	8.1	11.7	17.4	24.0	26.4	33.2	26.4	0.09
20S16	A2FFC	1RAC035	M20 x 1.5	15.0	3.2	8.1	12.2	19.0	24.0	26.4	33.2	26.4	0.09
20S	A2FFC	1RAC040	M20 x 1.5	15.0	6.1	11.4	13.0	20.0	24.0	26.4	33.1	26.4	0.09
20S	A2FFC	1RAC045	M20 x 1.5	15.0	6.1	11.7	13.9	20.0	24.0	26.4	33.1	26.4	0.09
20S	A2FFC	1RAC060	M20 x 1.5	15.0	6.1	11.7	14.7	21.5	24.0	26.4	33.1	26.4	0.09
20	A2FFC	1RAC050	M20 x 1.5	15.0	6.5	13.1	15.6	21.6	27.0	29.7	35.4	29.7	0.10
20	A2FFC	1RAC066	M20 x 1.5	15.0	6.5	14.0	16.9	23.4	27.0	29.7	35.4	29.7	0.10
20	A2FFC	1RAC070	M20 x 1.5	15.0	6.5	14.0	18.0	24.0	27.0	29.7	35.4	29.7	0.10
20	A2FFC	1RAC075	M20 x 1.5	15.0	6.5	14.0	18.7	25.0	27.0	29.7	35.4	29.7	0.10
20	A2FFC	1RAC080	M20 x 1.5	15.0	6.5	14.0	20.0	26.3	27.0	29.7	35.4	29.7	0.12
20	A2FFC	1RAC085	M20 x 1.5	15.0	6.5	14.0	20.5	28.0	27.0	29.7	35.4	31.0	0.11
25	A2FFC	1RAC100	M25 x 1.5	15.0	11.1	15.3	17.6	25.0	36.0	39.6	43.1	39.6	0.16
25	A2FFC	1RAC105	M25 x 1.5	15.0	11.1	18.4	20.7	27.0	36.0	39.6	43.1	39.6	0.16
25	A2FFC	1RAC110	M25 x 1.5	15.0	11.1	19.0	22.3	28.5	36.0	39.6	43.1	39.6	0.17
25	A2FFC	1RAC115	M25 x 1.5	15.0	11.1	20.0	23.7	32.0	36.0	39.6	43.1	39.6	0.18
25	A2FFC	1RAC120	M25 x 1.5	15.0	11.1	20.0	25.1	31.0	36.0	39.6	43.1	39.6	0.17
25	A2FFC	1RAC180	M25 X 1.5	15.0	11.1	20.0	26.5	35.0	36.0	39.6	43.1	39.6	0.18
32	A2FFC	1RAC250	M32 x 1.5	15.0	17.0	26.0	28.1	35.8	41.0	45.1	43.1	45.1	0.21
32	A2FFC	1RAC280	M32 x 1.5	15.0	17.0	26.3	30.4	38.0	41.0	45.1	43.1	45.1	0.21
32	A2FFC	1RAC290	M32 x 1.5	15.0	17.0	26.3	34.6	45.0	41.0	45.1	43.6	48.0	0.25
40	A2FFC	1RAC300	M40 x 1.5	15.0	23.5	32.2	36.4	45.0	50.0	55.0	45.1	55.0	0.28
40	A2FFC	1RAC380	M40 x 1.5	15.0	23.5	32.2	40.0	49.0	50.0	55.0	45.1	55.0	0.30
50S	A2FFC	1RAC450	M50 x 1.5	15.0	31.0	38.2	46.5	58.7	55.0	60.5	43.8	63.7	0.48
50S	A2FFC	1RAC500	M50 x 1.5	15.0	31.0	38.2	51.2	61.0	55.0	60.5	43.8	65.0	0.49
50	A2FFC	1RAC550	M50 x 1.5	15.0	35.6	44.0	51.2	61.0	60.0	66.0	48.0	66.0	0.49

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39 (Brass requires prefix "0")
Examples: 32A2FFC1RA534C290 = Nickel Plated Brass 1 ¼" NPT suitable for conduit sized 35.0 ID - 43.0 OD, 50SA2FFC1RA035C500 = Brass 1 ½" NPT, 20A2FFC1RA5C075 = Nickel Plated Brass M20 suitable for conduit sized 18.7 ID - 24.0 OD
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

A2FRC

A2FRC GLOBALLY APPROVED, RIGID & FLEXIBLE CONDUIT EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES HOUSED IN CONDUIT

- Designed for rigid and flexible conduits (when used with a conduit fitting)
- Easy install running coupler design
- Displacement type flameproof seal
- -60˚C to +130˚C
- Globally marked, UKEX, IECEx, ATEX and CSA

IP66

+130˚C
-60˚C

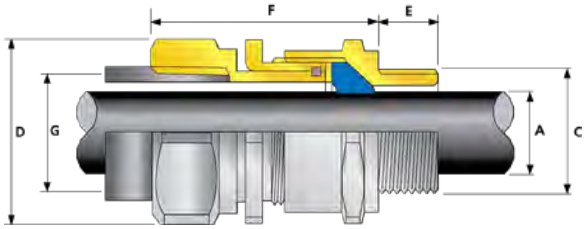
Ex db | Ex eb | Ex ta | Ex nR

A2FRC

EXPLOSIVE ATMOSPHERES CABLE GLANDS

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided when terminated inside enclosure
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
Alternative conduit sizes available upon request.
See 'thread option ordering examples' table below for typical NPT and Metric thread ordering references



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1321X, CML18ATEX4313X	IECEx CERTIFICATE	IECEx CML 18.0179X
UKEX CERTIFICATE	CML 21UKEX1245X, CML 21UKEX4246X		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da , Ⓔx II 3G Ex nR IIC Gc	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
CSA CERTIFICATE	1211841		
CODE OF PROTECTION	Ex d IIC, Ex e II, Ex nR II, Enclosure Type 4x		
COMPLIANCE STANDARDS	C22.2 No 0,0.4, 94,174, CAN/CSA-60079-0,1,7, 15		
EAC CERTIFICATE	RU C-GB.АД07.B.02519/20	UkrSEPRO CERTIFICATE	СЦ 19.0371X
KCs KOSHA CERTIFICATE	19-AV4B0-0471X ; 19-AV4B0-0472X ; 19-AV4B0-0473X	ECAS CERTIFICATE	20-02-05362
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002951	INMETRO APPROVAL	TÜV 21.1075X
SANS	IA S-XPL21804 21.0008X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, BV: 43180, ABS: 17-LD1619350-PDA		

THREAD OPTION ORDERING EXAMPLES		
ORDERING REFERENCE	MALE THREAD	FEMALE THREAD
20A2FRC1RA	M20	M20
20A2FRC1RA0**31**	**M20**	**½" NPT**
20A2FRC1RA0**3131**	**½" NPT**	**½" NPT**
20A2FRC1RA0**3102**†	**½" NPT**	**M20**

Refer to 'How to order' page for complete list of ordering codes.
† For Metric female threads please insert '**0**' before thread size code
e.g. 32A2RC1RA5340**5** (1 ¼" NPT Male x M40 Female)

COMBINED ORDERING REFERENCE (*BRASS METRIC MALE AND FEMALE)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					FEMALE CONNECTION THREAD 'G'	FEMALE CONNECTION THREAD (NPT) 'G'	OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION									
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT			MIN	MAX	MAX	MAX			
20S16	A2FRC	1RA	M20	15.0	½"	19.9	¾"	M20	½"	3.2	8.7	24.0	26.4	46.9	PVC04	0.110
20S	A2FRC	1RA	M20	15.0	½"	19.9	¾"	M20	½"	6.1	11.7	24.0	26.4	46.1	PVC04	0.110
20	A2FRC	1RA	M20	15.0	½"	19.9	¾"	M20	½"	6.5	14.0	27.0	29.7	47.9	PVC05	0.110
25	A2FRC	1RA	M25	15.0	¾"	20.2	1"	M25	¾"	11.1	20.0	36.0	39.6	56.1	PVC09	0.200
32	A2FRC	1RA	M32	15.0	1"	25.0	1 ¼"	M32	1"	17.0	26.3	41.0	45.1	55.5	PVC10	0.240
40	A2FRC	1RA	M40	15.0	1 ¼"	25.6	1 ½"	M40	1 ¼"	23.5	32.2	50.0	55.0	57.7	PVC13	0.330
50S	A2FRC	1RA	M50	15.0	1 ½"	26.1	2"	M50	1 ½"	31.0	38.2	55.0	60.5	59.1	PVC15	0.430
50	A2FRC	1RA	M50	15.0	2"	26.9	2 ½"	M50	2"	35.6	44.0	60.0	66.0	64.3	PVC18	0.440
63S	A2FRC	1RA	M63	15.0	2"	26.9	2 ½"	M63	2"	41.5	49.9	70.5	77.6	61.6	PVC21	0.720
63	A2FRC	1RA	M63	15.0	2 ½"	39.9	3"	M63	2 ½"	47.2	55.9	75.0	82.5	71.0	PVC23	0.640
75S	A2FRC	1RA	M75	15.0	2 ½"	39.9	3"	M75	2 ½"	54.0	61.9	84.0	92.4	70.1	PVC26	0.960
75	A2FRC	1RA	M75	15.0	3"	41.5	3 ½"	M75	3"	61.1	67.9	84.0	92.4	73.2	PVC30	0.860
90	A2FRC	1RA	M90	24.0	3 ½"	42.8	4"	M90	3 ½"	66.6	79.9	108.0	118.8	106.3	PVC31	2.250

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT male and / or female options please add the following digits to the material suffix (See Thread Options table above) ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")
NPT male & Metric female product option is required, please add the following digits to the material and NPT male suffix (See Thread Options table) M16= 01, M20 = 02, M25 = 03, M32 = 04, M40 = 05, M50 = 06, M63 = 07, M75 = 08, M90 = 09 (Brass requires prefix "0")

Examples: 32A2FRC1RA533 = Nickel Plated Brass M32 male x 1" NPT female, 20S16A2FRC1RA031 = Brass M20 male x ½" NPT female, 25A2FRC1RA43203 = Stainless Steel ¾" NPT male x M25 female, 20A2FRC1RA5 = Nickel Plated Brass M20 male & female

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

SS2K

SS2K DOUBLE SEAL, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- Provides double seal on outer sheath or single on outer and inner
- Direct and remote installation
- Superior levels of cable retention
- Displacement type flameproof seal
- Deluge protected
- -60˚C to +130˚C (standard)
- Ex e only version available
- Globally marked, UKEX, IECEx, ATEX and CSA

IP66 IP67 IP68

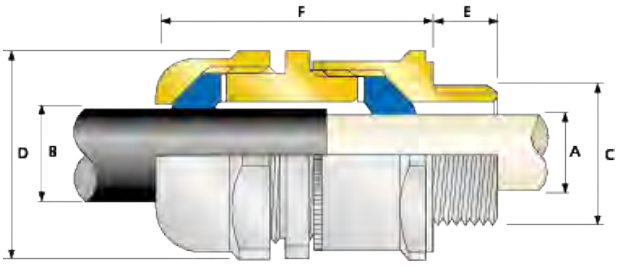
DELUGE PROTECTED

+130˚C -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121: Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Unarmoured and Braided
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath, Double Seal on Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1322X, CML18ATEX4314X	IECEx CERTIFICATE	IECEx CML 18.0178X
UKEX CERTIFICATE	CML 21UKEX1256X, CML 21UKEX4257X		
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ex II 3G, Ex nR IIC Gc Ex I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
CSA CERTIFICATE	1211841	EAC CERTIFICATE	Check website for latest certificate number
CODE OF PROTECTION**	Ex d IIC, Ex e II, Ex nR II, Enclosure Type 4x	UkrSEPRO CERTIFICATE	СЦ 19.0371X
COMPLIANCE STANDARDS	C22.2 No 0,0.4, 94, 174, CAN/CSA-E60079-0,1,7, 15	ECAS CERTIFICATE	20-02-05263
CCC CERTIFICATE	2020322313002869	INMETRO APPROVAL	TÜV 12.0879X
CCOE / PESO (INDIA) CERTIFICATE	P444949	RETIE APPROVAL NUMBER	03866
SANS	IA MS-XPL21804 21.0007X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

Aluminium alloys are not permitted in Group I mining applications **Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	SS2K	1RA	M20	15.0	3.2	8.6	3.2	8.6	24.0	26.4	49.0	PVC04	0.140
20S	SS2K	1RA	M20	15.0	6.1	11.7	6.1	11.7	24.0	26.4	49.0	PVC04	0.130
20	SS2K	1RA	M20	15.0	6.5	14.0	6.5	14.0	27.0	29.7	54.0	PVC05	0.160
25	SS2K	1RA	M25	15.0	11.1	20.0	11.1	20.0	36.0	39.6	66.0	PVC09	0.300
32	SS2K	1RA	M32	15.0	17.0	26.3	17.0	26.3	41.0	45.1	67.0	PVC10	0.350
40	SS2K	1RA	M40	15.0	23.5	32.1	23.5	32.1	50.0	55.0	70.0	PVC13	0.500
50S	SS2K	1RA	M50	15.0	31.0	38.2	31.0	38.2	55.0	60.5	65.0	PVC15	0.560
50	SS2K	1RA	M50	15.0	35.6	44.0	35.6	44.0	60.0	66.0	70.0	PVC18	0.590
63S	SS2K	1RA	M63	15.0	41.5	49.9	41.5	49.9	70.0	77.0	70.0	PVC21	0.890
63	SS2K	1RA	M63	15.0	47.2	55.9	47.2	55.9	75.0	82.5	71.0	PVC23	0.850
75S	SS2K	1RA	M75	15.0	54.0	61.9	54.0	61.9	80.0	88.0	70.0	PVC25	1.020
75	SS2K	1RA	M75	15.0	61.1	67.9	61.1	67.9	84.0	92.4	75.0	PVC26	0.990
90	SS2K	1RA	M90	24.0	66.6	79.4	66.6	79.4	108.0	118.8	113.0	PVC31	2.990
100	SS2K	1RA	M100	24.0	76.0	90.9	76.0	90.9	123.0	134.2	106.0	LSF33	3.390
115	SS2K	1RA	M115	24.0	86.0	97.9	86.0	97.9	133.4	146.7	128.0	LSF34	5.320
130	SS2K	1RA	M130	24.0	97.0	114.9	97.0	114.9	152.4	167.6	129.0	LSF35	6.350

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32SS2K1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SSS2K1RA035 = Brass 1 ½" NPT, 25SS2K1RA432 = Stainless Steel ¾" NPT, 20SS2K1RA5 = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

SS2KPB

SS2KPB DOUBLE SEAL, INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF LEAD SHEATHED UNARMOURED CABLES

- Effectively earths / grounds lead sheathed cables
- Direct and remote installation
- Superior levels of cable retention
- Displacement type flameproof seals
- Secure against self-loosening
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx and ATEX

IP66 IP67 IP68

+130˚C
-60˚C

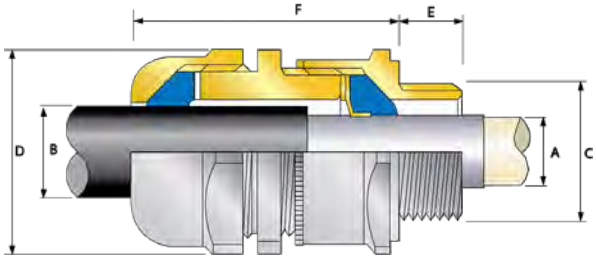
Ex db Ex eb Ex ta Ex nR

SS2KPB

EXPLOSIVE ATMOSPHERES CABLE GLANDS

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
CABLE TYPE	Unarmoured and Lead Sheathed, Lead Covered
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Inner Lead Sheath or Lead Covering and Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1322X, CML18ATEX4314X	IECEx CERTIFICATE	IECEx CML 18.0178X
UKEX CERTIFICATE	CML 21UKEX1256X, CML 21UKEX4257X		
CODE OF PROTECTION	Ex I 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ex II 3G, Ex nR IIC Gc Ex I M2, Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
UkrSEPRO CERTIFICATE	СЦ 19.0371X	EAC CERTIFICATE	Check website for latest certificate number
CCC CERTIFICATE	2020322313002869	INMETRO APPROVAL	TÜV 12.0879X
CCOE / PESO (INDIA) CERTIFICATE	P444949	RETIE APPROVAL NUMBER	03866
SANS	IA MS-XPL21804 21.0007X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

Aluminium alloys are not permitted in Group I mining applications

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					DIAMETER OVER LEAD SHEATH 'A'		OVERALL CABLE DIAMETER 'B'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION									
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	SS2KPB	1RA	M20	15.0	½"	19.9	¾"	3.2	7.8	3.2	8.6	24.0	26.4	49.0	PVC04	0.14
20S	SS2KPB	1RA	M20	15.0	½"	19.9	¾"	6.1	11.0	6.1	11.7	24.0	26.4	49.0	PVC04	0.13
20	SS2KPB	1RA	M20	15.0	½"	19.9	¾"	6.5	13.4	6.5	14.0	27.0	29.7	54.0	PVC05	0.16
25	SS2KPB	1RA	M25	15.0	¾"	20.2	1"	11.1	19.3	11.1	20.0	36.0	39.6	66.0	PVC09	0.30
32	SS2KPB	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	17.0	26.3	41.0	45.1	67.0	PVC10	0.36
40	SS2KPB	1RA	M40	15.0	1 ¼"	25.6	1 ½"	23.5	31.2	23.5	32.1	50.0	55.0	70.0	PVC13	0.51
50S	SS2KPB	1RA	M50	15.0	1 ½"	26.1	2"	31.0	37.2	31.0	38.2	55.0	60.5	65.0	PVC15	0.57
50	SS2KPB	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	35.6	44.0	60.0	66.0	70.0	PVC18	0.60
63S	SS2KPB	1RA	M63	15.0	2"	26.9	2 ½"	41.5	48.5	41.5	49.9	70.0	77.0	70.0	PVC21	0.90
63	SS2KPB	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	47.2	55.9	75.0	82.5	71.0	PVC23	0.86
75S	SS2KPB	1RA	M75	15.0	2 ½"	39.9	3"	54.0	60.2	54.0	61.9	80.0	88.0	70.0	PVC25	1.03
75	SS2KPB	1RA	M75	15.0	3"	41.5	3 ½"	61.1	65.2	61.1	67.9	84.0	92.4	75.0	PVC26	1.00
90	SS2KPB	1RA	M90	24.0	3 ½"	42.8	4"	66.6	77.1	66.6	79.4	108.0	118.8	113.0	PVC31	3.01
100	SS2KPB	1RA	M100	24.0	3 ½"	42.8	4"	76.0	88.1	76.0	90.9	123.0	134.2	106.0	LSF33	3.41
115	SS2KPB	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	86.0	97.9	133.4	146.7	128.0	LSF34	5.35
130	SS2KPB	1RA	M130	24.0	5"	46.8	-	97.0	110.1	97.0	114.9	152.4	167.6	129.0	LSF35	6.39

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32SS2KPB1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SSS2KPB1RA035 = Brass 1 ½" NPT, 25SS2KPB1RA432 = Stainless Steel ¾" NPT, 20SS2KPB1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

SS2KTA

SS2KTA DOUBLE SEAL, Ex eb, INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF TAPE ARMOURED CABLES

- Effectively earths / grounds tape armour cables
- Direct and remote installation
- Superior levels of cable retention
- Displacement type flameproof seals
- Secure against self-loosening
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx and ATEX

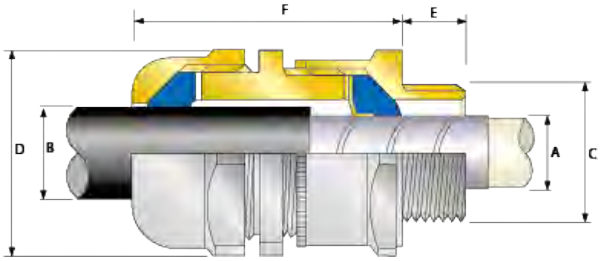
IP66 IP67 IP68

+130˚C
-60˚C

Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
CABLE TYPE	Steel Tape Armour (STA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Steel Tape Armour and Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1322X, CML18ATEX4314X	IECEx CERTIFICATE	IECEx CML 18.0178X
UKEX CERTIFICATE	CML 21UKEX1256X, CML 21UKEX4257X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc	CODE OF PROTECTION	Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,7,15,31
EAC CERTIFICATE	Check website for latest certificate number		
UkrSEPRO CERTIFICATE	СЦ 19.0371X		
CCC CERTIFICATE	2020322313002869	INMETRO APPROVAL	TÜV 12.0879X
CCOE / PESO (INDIA) CERTIFICATE	P444949		
SANS	IA MS-XPL21804 21.0007X		

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					DIAMETER OVER TAPE ARMOUR 'A'		OVERALL CABLE DIAMETER 'B'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION									
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	SS2KTA	1RA	M20	15.0	½"	19.9	¾"	3.2	7.8	3.2	8.6	24.0	26.4	49.0	PVC04	0.14
20S	SS2KTA	1RA	M20	15.0	½"	19.9	¾"	6.1	11.0	6.1	11.7	24.0	26.4	49.0	PVC04	0.13
20	SS2KTA	1RA	M20	15.0	½"	19.9	¾"	6.5	13.4	6.5	14.0	27.0	29.7	54.0	PVC05	0.16
25	SS2KTA	1RA	M25	15.0	¾"	20.2	1"	11.1	19.3	11.1	20.0	36.0	39.6	66.0	PVC09	0.30
32	SS2KTA	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	17.0	26.3	41.0	45.1	67.0	PVC10	0.36
40	SS2KTA	1RA	M40	15.0	1 ¼"	25.6	1 ½"	23.5	31.2	23.5	32.1	50.0	55.0	70.0	PVC13	0.51
50S	SS2KTA	1RA	M50	15.0	1 ½"	26.1	2"	31.0	37.2	31.0	38.2	55.0	60.5	65.0	PVC15	0.57
50	SS2KTA	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	35.6	44.0	60.0	66.0	70.0	PVC18	0.60
63S	SS2KTA	1RA	M63	15.0	2"	26.9	2 ½"	41.5	48.5	41.5	49.9	70.0	77.0	70.0	PVC21	0.90
63	SS2KTA	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	47.2	55.9	75.0	82.5	71.0	PVC23	0.86
75S	SS2KTA	1RA	M75	15.0	2 ½"	39.9	3"	54.0	60.2	54.0	61.9	80.0	88.0	70.0	PVC25	1.03
75	SS2KTA	1RA	M75	15.0	3"	41.5	3 ½"	61.1	65.2	61.1	67.9	84.0	92.4	75.0	PVC26	1.00
90	SS2KTA	1RA	M90	24.0	3 ½"	42.8	4"	66.6	77.1	66.6	79.4	108.0	118.8	113.0	PVC31	3.01
100	SS2KTA	1RA	M100	24.0	3 ½"	42.8	4"	76.0	88.1	76.0	90.9	123.0	134.2	106.0	LSF33	3.41
115	SS2KTA	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	86.0	97.9	133.4	146.7	128.0	LSF34	5.35
130	SS2KTA	1RA	M130	24.0	5"	46.8	-	97.0	110.1	97.0	114.9	152.4	167.6	129.0	LSF35	6.39

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32SS2KTA1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SSS2KTA1RA035 = Brass 1 ½" NPT, 25SS2KTA1RA432 = Stainless Steel ¾" NPT, 20SS2KTA1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

C2K

C2K INTERNATIONALLY APPROVED, Ex eb, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct and remote installation
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C (standard)
- Internationally marked, UKEX, IECEx and ATEX
- Superior EMC performance

IP66 IP67 IP68

DELUGE PROTECTED | EMC | +130 ˚C / -60 ˚C

Ex eb Ex ta

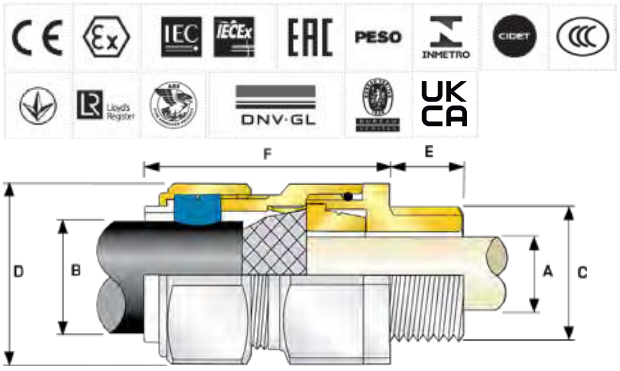
TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Armoured & Jacketed
SEALING TECHNIQUE	CMP Load Retention Seal
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Reversible Armour Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1323X	IECEx CERTIFICATE	IECEx CML 18.0180X
UKEX CERTIFICATE	CML 21UKEX1251X		
CODE OF PROTECTION	II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,7,31	COMPLIANCE STANDARDS	IEC 60079-0,7,31
EAC CERTIFICATE	Check website for latest certificate number	UkrSEPRO CERTIFICATE	СЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003285	INMETRO APPROVAL	TÜV 12.0617X
ECAS CERTIFICATE	20-02-05625	SANS	IA S-XPL21804 21.0009X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 21-2090433-PDA, BV: 43180		



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid Armour cables. Tapes can also be doubled over. For cables that have only a single layer of Armour such as SWA, the clamping range should be used as shown in the table below. Stepped Cone (W) is suitable for Single Wire Armour (SWA), or Aluminum Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE†				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION				GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	C2K	1RA	M20	15.0	½"	19.9	¾"	8.7	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	65.0	PVC04	0.23
20S	C2K	1RA	M20	15.0	½"	19.9	¾"	11.7	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	62.0	PVC04	0.24
20	C2K	1RA	M20	15.0	½"	19.9	¾"	14.0	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	PVC06	0.22
25S	C2K	1RA	M25	15.0	¾"	20.2	1"	20.0	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.35
25	C2K	1RA	M25	15.0	¾"	20.2	1"	20.0	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.35
32	C2K	1RA	M32	15.0	1"	25.0	1 ¼"	26.0	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	PVC11	0.55
40	C2K	1RA	M40	15.0	1 ¼"	25.6	1 ½"	32.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	PVC15	0.75
50S	C2K	1RA	M50	15.0	1 ½"	26.1	2"	38.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	PVC18	0.86
50	C2K	1RA	M50	15.0	2"	26.9	2 ½"	44.1	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	77.0	PVC21	1.13
63S	C2K	1RA	M63	15.0	2"	26.9	2 ½"	50.0	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	80.0	PVC23	1.35
63	C2K	1RA	M63	15.0	2 ½"	39.9	3"	56.0	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.0	PVC25	1.34
75S	C2K	1RA	M75	15.0	2 ½"	39.9	3"	62.0	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	87.0	PVC28	2.02
75	C2K	1RA	M75	15.0	3"	41.5	3 ½"	64.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.0	PVC30	2.48
90	C2K	1RA	M90	24.0	3 ½"	42.8	4"	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.0	PVC32	3.52
100	C2K	1RA	M100	24.0	3 ½"	42.8	4"	91.0	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	LSF33	4.58
115	C2K	1RA	M115	24.0	4"	44.0	5"	98.0	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	114.0	LSF34	6.50
130	C2K	1RA	M130	24.0	5"	46.8	-	115.0	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	114.0	LSF35	8.50

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32C2K1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SC2K1RA035 = Brass 1 ½" NPT, 25C2K1RA432 = Stainless Steel ¾" NPT, 20C2K1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

CXe

CXe INTERNATIONALLY APPROVED, Ex eb, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR BRAIDED & STEEL TAPE ARMOURED CABLES

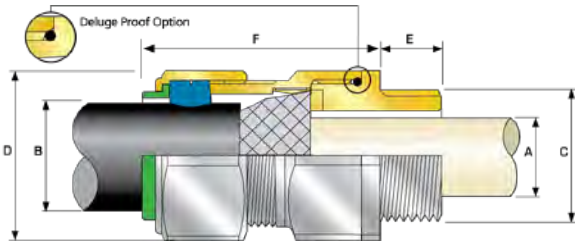
- Metal-to-metal armour clamping
- Direct and remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx and ATEX
- Superior EMC performance

IP66 IP67 IP68 EMC +130˚C -60˚C Ex eb Ex ta

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE TYPE	Wire Braid Armour (e.g. SWB), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Strip Armour (e.g. ASA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Load Retention Seal
SEALING AREA(S)	Cable Outer Sheath
CABLE GLAND MATERIAL	Detachable Armour Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request
Deluge Proof version available, ferrule colour coded white for ease of identification, please add 'D' after the product type.

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1323X	IECEx CERTIFICATE	IECEx CML 18.0180X
UKEX CERTIFICATE	CML 21UKEX1251X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,7,31	COMPLIANCE STANDARDS	IEC 60079-0,7,31
EAC CERTIFICATE	Check website for latest certificate number	UkrSEPRO CERTIFICATE	СЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003285	INMETRO APPROVAL	TÜV 12.0617X
ECAS CERTIFICATE	20-02-05625	SANS	IA S-XPL21804 21.0009X
MARINE APPROVALS	LRS: 01/00172 DNV: TAE000000Y ABS: 21-2090433-PDA, BV: 43180		



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C'		CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	CXE	1RA	M20	15.0	8.7	6.1	13.1	0.3	1.0	24.0	26.4	48.0	PVC04	0.10
20S	CXE	1RA	M20	15.0	11.7	9.5	15.9	0.3	1.0	24.0	26.4	48.0	PVC04	0.10
20	CXE	1RA	M20	15.0	14.0	12.5	20.9	0.4	1.0	30.5	33.6	48.0	PVC06	0.15
25S	CXE	1RA	M25	15.0	20.0	14.0	22.0	0.4	1.2	37.5	41.3	56.0	PVC09	0.22
25	CXE	1RA	M25	15.0	20.0	18.2	26.2	0.4	1.2	37.5	41.3	56.0	PVC09	0.22
32	CXE	1RA	M32	15.0	26.0	23.7	33.9	0.4	1.2	46.0	50.6	54.0	PVC11	0.31
40	CXE	1RA	M40	15.0	32.2	27.9	40.4	0.4	1.6	55.0	60.5	58.0	PVC15	0.45
50S	CXE	1RA	M50	15.0	38.2	35.2	46.7	0.4	1.6	60.0	66.0	61.0	PVC18	0.57
50	CXE	1RA	M50	15.0	44.1	40.4	53.0	0.6	1.6	70.1	77.1	60.0	PVC21	0.75
63S	CXE	1RA	M63	15.0	50.0	45.6	59.4	0.6	1.6	75.0	82.5	74.0	PVC23	1.04
63	CXE	1RA	M63	15.0	56.0	54.6	65.8	0.6	1.6	80.0	88.0	71.0	PVC25	1.02
75S	CXE	1RA	M75	15.0	62.0	59.0	72.0	0.6	1.6	90.0	99.0	86.0	PVC28	1.79
75	CXE	1RA	M75	15.0	64.2	66.7	78.4	0.6	1.6	100.0	110.0	82.0	PVC30	2.09
90	CXE	1RA	M90	24.0	78.6	76.2	90.3	0.8	1.6	114.3	125.7	95.0	PVC32	3.04
100	CXE	1RA	M100	24.0	91.0	86.1	101.4	0.8	1.6	123.0	135.3	95.0	LSF33	3.13
115	CXE	1RA	M115	24.0	98.0	101.5	110.2	0.8	1.6	133.4	146.7	107.5	LSF34	4.48
130	CXE	1RA	M130	24.0	115.0	110.2	123.2	0.8	1.6	152.4	167.6	110.0	LSF35	5.77

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32CXE1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SCXE1RA035 = Brass 1 ½" NPT, 25CXE1RA432 = Stainless Steel ¾" NPT, 20CXE1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

CWe

CWe INTERNATIONALLY APPROVED, Ex eb, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct and remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx and ATEX
- Superior EMC performance

IP66 IP67 IP68

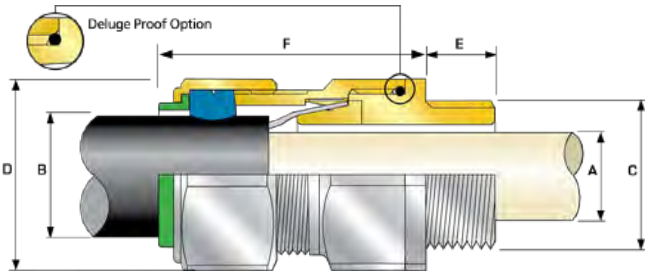
EMC +130 ˚C -60 ˚C

Ex eb Ex ta

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA),
SEALING TECHNIQUE	Outer Load Retention Seal
SEALING AREA(S)	Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

Deluge Proof version available, ferrule colour coded white for ease of identification, please add 'D' after the product type.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1323X	IECEx CERTIFICATE	IECEx CML 18.0180X
UKEX CERTIFICATE	CML 21UKEX1251X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,7,31	COMPLIANCE STANDARDS	IEC 60079-0,7,31
EAC CERTIFICATE	Check website for latest certificate number	UkrSEPRO CERTIFICATE	СЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003285	INMETRO APPROVAL	TÜV 12.0617X
ECAS CERTIFICATE	20-02-05625	SANS	IA S-XPL21804 21.0009X
MARINE APPROVALS	LRS: 01/00172 DNV: TAE000000Y ABS: 21-2090433-PDA, BV: 43180		

COMBINED ORDERING REFERENCE (*BRASS METRIC)			METRIC	THREAD LENGTH (METRIC) 'E'	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX			MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	CWE	1RA	M20	15.0	8.7	6.1	13.1	0.8	1.25	24.0	26.4	48.0	PVC04	0.10
20S	CWE	1RA	M20	15.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	PVC04	0.10
20	CWE	1RA	M20	15.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	PVC06	0.15
25S	CWE	1RA	M25	15.0	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	PVC09	0.22
25	CWE	1RA	M25	15.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	PVC09	0.22
32	CWE	1RA	M32	15.0	26.0	23.7	33.9	1.6	2.0	46.0	50.6	54.0	PVC11	0.31
40	CWE	1RA	M40	15.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	PVC15	0.45
50S	CWE	1RA	M50	15.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	PVC18	0.57
50	CWE	1RA	M50	15.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	PVC21	0.75
63S	CWE	1RA	M63	15.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	PVC23	1.04
63	CWE	1RA	M63	15.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	PVC25	1.02
75S	CWE	1RA	M75	15.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	PVC28	1.79
75	CWE	1RA	M75	15.0	64.2	66.7	78.4	2.5	3.0	100.0	110.0	82.0	PVC30	2.09
90	CWE	1RA	M90	24.0	78.6	76.2	90.3	3.15	4.0	114.3	125.7	95.0	PVC32	3.04
100	CWE	1RA	M100	24.0	91.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	LSF33	3.13
115	CWE	1RA	M115	24.0	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	LSF34	4.48
130	CWE	1RA	M130	24.0	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	LSF35	5.76

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32CWE1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SCWE1RA035 = Brass 1 ½" NPT, 25CWE1RA432 = Stainless Steel ¾" NPT, 20CWE1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

TE1FU

TE1FU GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

- Stainless steel compact design
- Fully sequential, three step installation procedure
- Direct and remote installation
- Unique compensating displacement seal system(CDS)
- Metal-to-metal installation regardless of cable bedding diameter
- Integral protected deluge seal
- -60˚C to +130˚C
- Designed to reduce the effects of coldflow, see CMP Technical Document TS002
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- Globally marked cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- Reduces installation times, cost and risk

IP66 IP67 IP68

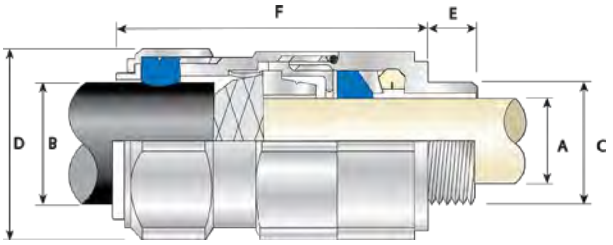
DELUGE PROTECTED | EMC | +130˚C ↑ -60˚C

Ex db | Ex eb | Ex ta | Ex nR

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g CY/SY), Wire Braid Armour (e.g SWB)
SEALING TECHNIQUE	CMP Inner Compensating Displacement Seal (CDS) and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath
ARMOUR CLAMPING	Reversible Armour Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1326X, CML 18ATEX4318X	IECEx CERTIFICATE	IECEx CML 18.0183X,
UKEX CERTIFICATE	CML 21UKEX1258X, CML 21UKEX4259X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2, Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Oil Res II Class I, Zone 1, AEx e II, AEx nR II		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 3, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7		
KCs KOSHA CERTIFICATE	19-AV4BO- 0375X, 19-AV4BO- 0376X, 19-AV4BO- 0377X, 19-AV4BO- 0378X		
EAC CERTIFICATE	RU C-GB.АД07.В.02514/20	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002527	INMETRO APPROVAL	TÜV 11.0374X
RETIE APPROVAL NUMBER	03866	UkrSEPRO CERTIFICATE	СЦ 19.0371X
ECAS CERTIFICATE	20-02-05626	SANS	IA MS-XPL21804 21.0011X
MARINE APPROVALS	LRS: 01/00172 DNV: TAE000000Y ABS: 20-LD1948801-PDA, BV: 43180		

PATENT GRANTED: GB 1077517

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminum Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (STAINLESS STEEL METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION					GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX					MAX	MAX			
20S16	TE1FU	1RA4	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	57.3	PVC04	0.15
20S	TE1FU	1RA4	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	57.3	PVC04	0.15
20	TE1FU	1RA4	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	61.2	PVC06	0.23
25S	TE1FU	1RA4	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	74.0	PVC09	0.34
25	TE1FU	1RA4	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	74.0	PVC09	0.34
32	TE1FU	1RA4	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	78.2	PVC11	0.55
40	TE1FU	1RA4	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	81.6	PVC15	0.79
50S	TE1FU	1RA4	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	88.1	PVC18	1.00
50	TE1FU	1RA4	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	91.2	PVC21	1.37
63S	TE1FU	1RA4	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.4	90.5	PVC23	1.50
63	TE1FU	1RA4	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	90.3	PVC25	1.56
75S	TE1FU	1RA4	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	104.7	PVC28	2.45
75	TE1FU	1RA4	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	110.8	PVC30	3.15
90	TE1FU	1RA4	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	135.5	PVC32	4.62
100	TE1FU	1RA4	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	126.8	LSF33	4.95
115	TE1FU	1RA4	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	157.5	LSF34	7.60
130	TE1FU	1RA4	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	164.5	LSF35	8.73

For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32TE1FU1RA434 = Stainless Steel 1 ¼" NPT, 50STE1FU1RA435 = 1 ½" NPT, 25TE1FU1RA432 = Stainless Steel ¾" NPT

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

TE1FUPB

TE1FUPB GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF LEAD SHEATHED ARMOURED CABLES

- Stainless steel compact design
- Effectively earths / grounds lead sheathed cables
- Fully sequential, three step installation procedure
- Reduces installation times, cost and risk
- Direct and remote installation
- Unique compensating displacement seal system(CDS)
- Metal-to-metal installation regardless of lead sheath diameter
- Integral protected deluge seal
- Designed to reduce the effects of coldflow, see CMP Technical Document TS002
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance

IP66 IP67 IP68

DELUGE PROTECTED | EMC | +130 ˚C ↑ -60 ˚C

Ex db | Ex eb | Ex ta | Ex nR

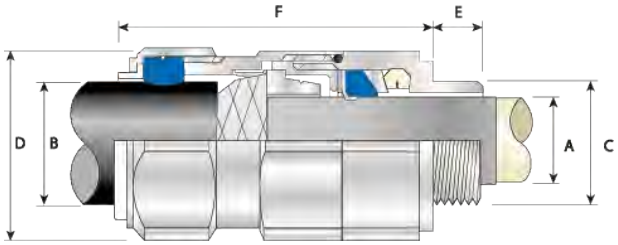
TE1FUPB

EXPLOSIVE ATMOSPHERES CABLE GLANDS

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Lead Sheathed and Single Wire Armour (LC/SWA), Lead Sheathed and Aluminium Wire Armour (LC/AWA), Lead Sheathed & Wire Braid Armour (LC/SWB), Lead Sheathed and Pliable Wire Armour (LC/PWA), Lead Sheathed and Steel Tape Armour (LC/STA), Lead Sheathed and Aluminium Strip Armour (LC/ASA)
SEALING TECHNIQUE	CMP Inner Compensating Displacement Seal (CDS) and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath
ARMOUR CLAMPING	Reversible Armour Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1326X, CML 18ATEX4318X	IECEx CERTIFICATE	IECEx CML 18.0183X
UKEX CERTIFICATE	CML 21UKEX1258X, CML 21UKEX4259X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2, Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Oil Res II Class I, Zone 1, AEx e II, AEx nR II		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 3, 4 and 4X, Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7		
EAC CERTIFICATE	RU C-GB.АД07.B.02514/20	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002527	INMETRO APPROVAL	TÜV 11.0374X
SANS	IA MS-XPL21804 21.0011X		



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminum Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (STAINLESS STEEL METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION					GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX					MAX	MAX			
20S16	TE1FUPB	1RA4	M20	15.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	57.3	PVC04	0.15
20S	TE1FUPB	1RA4	M20	15.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	57.3	PVC04	0.15
20	TE1FUPB	1RA4	M20	15.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	61.2	PVC06	0.23
25S	TE1FUPB	1RA4	M25	15.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	74.0	PVC09	0.35
25	TE1FUPB	1RA4	M25	15.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	74.0	PVC09	0.35
32	TE1FUPB	1RA4	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	78.2	PVC11	0.55
40	TE1FUPB	1RA4	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	81.6	PVC15	0.80
50S	TE1FUPB	1RA4	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	88.1	PVC18	1.01
50	TE1FUPB	1RA4	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	91.2	PVC21	1.38
63S	TE1FUPB	1RA4	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.4	90.5	PVC23	1.51
63	TE1FUPB	1RA4	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	90.3	PVC25	1.57
75S	TE1FUPB	1RA4	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	104.7	PVC28	2.46
75	TE1FUPB	1RA4	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	110.8	PVC30	3.15
90	TE1FUPB	1RA4	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	135.5	PVC32	4.63
100	TE1FUPB	1RA4	M100	24.0	4"	44.0	5"	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	126.8	LSF33	4.97
115	TE1FUPB	1RA4	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	157.5	LSF34	7.60
130	TE1FUPB	1RA4	M130	24.0	5"	46.8	6"	97.0	110.1	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	164.5	LSF35	8.77

For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32TE1FUPB1RA434 = Stainless Steel 1 ¼" NPT, 50STE1FUPB1RA435 = 1 ½" NPT, 25TE1FUPB1RA432 = Stainless Steel ¾" NPT
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E1FU

E1FU GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

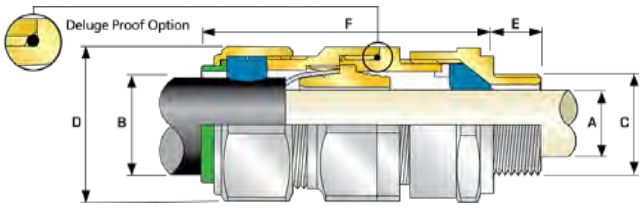
- Metal-to-metal armour clamping
- Direct and remote installation
- Displacement type flameproof inner seal
- Controlled outer load retention seal
- Designed to reduce the effects of coldflow, see CMP Technical Document TS001
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance

IP66 IP67 IP68 EMC +130˚C -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
DELUGE PROTECTION COMPLIANCE	DTS01:91 option available on request (white ferrule for identification purposes)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Pliable Wire Armour (PWA), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Armoured and Jacketed
SEALING TECHNIQUE	CMP Inner Displacement Seal and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath
ARMOUR CLAMPING	Reversible Armour Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1324X, CML18ATEX4316X	IECEx CERTIFICATE	IECEx CML 18.0181X
UKEX CERTIFICATE	CML 21UKEX1252X, CML 21UKEX4253X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Class I, Zone 1, AEx e II, AEx nR II		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7		
EAC CERTIFICATE	RU C-GB.АД07.В.02515/20	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002870	INMETRO APPROVAL	TÜV 12.0618X
UkrSEPRO CERTIFICATE	СЦ 19.0371X	RETIE APPROVAL NUMBER	03866
KCs KOSHA CERTIFICATE	14-GA4BO-0257X	ECAS CERTIFICATE	20-02-06421
SANS	IA MS-XPL21804 21.0010X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminum Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE†				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION					GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E1FU	1RA	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	72.5	PVC04	0.16
20S	E1FU	1RA	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	70.0	PVC04	0.15
20	E1FU	1RA	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	73.0	PVC06	0.21
25S	E1FU	1RA	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.33
25	E1FU	1RA	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.33
32	E1FU	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	86.0	PVC11	0.43
40	E1FU	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	90.0	PVC15	0.62
50S	E1FU	1RA	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	91.0	PVC18	0.75
50	E1FU	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	95.0	PVC21	0.95
63S	E1FU	1RA	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.0	PVC23	1.34
63	E1FU	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	104.0	PVC25	1.34
75S	E1FU	1RA	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	115.0	PVC28	2.11
75	E1FU	1RA	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	117.0	PVC30	2.42
90	E1FU	1RA	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	114.3	125.4	147.0	PVC32	4.21
100	E1FU	1RA	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	LSF33	4.45
115	E1FU	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	162.0	LSF34	6.19
130	E1FU	1RA	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	174.0	LSF35	8.34

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1FU1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE1FU1RA035 = Brass 1 ½" NPT, 20E1FU1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E2FU

E2FU GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF LEAD SHEATHED ARMOURED CABLES

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct and remote installation
- Displacement type flameproof inner seal
- Controlled outer load retention seal
- Designed to reduce the effects of coldflow, see CMP Technical Document TS001
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance

IP66 IP67 IP68

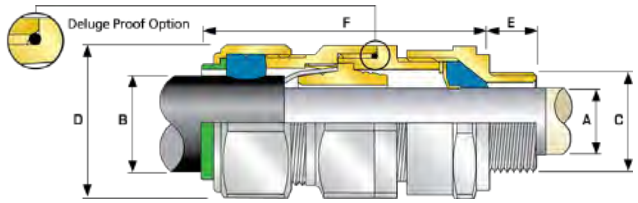
EMC +130˚C ↑ -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
DELUGE PROTECTION COMPLIANCE	DTS01:91 option available on request (white ferrule for identification purposes)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Lead Sheathed and Single Wire Armour (LC/SWA), Lead Sheathed and Aluminium Wire Armour (LC/AWA), Lead Sheathed and Wire Braid Armour (LC/SWB), Lead Sheathed and Pliable Wire Armour (LC/PWA), Lead Sheathed and Steel Tape Armour (LC/STA), Lead Sheathed and Aluminium Strip Armour (LC/ASA)
SEALING TECHNIQUE	CMP Inner Displacement Seal and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath
ARMOUR CLAMPING	Reversible Armour Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1324X, CML18ATEX4316X	IECEx CERTIFICATE	IECEx CML 18.0181X
UKEX CERTIFICATE	CML 21UKEX1252X, CML 21UKEX4253X		
CODE OF PROTECTION	⟨Ex⟩ II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da ⟨Ex⟩ II 3G Ex nR IIC Gc, ⟨Ex⟩ I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Class I, Zone 1, AEx e II, AEx nR II		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7		
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002870	INMETRO APPROVAL	TÜV 12.0618X
RETIE APPROVAL NUMBER	03866	ECAS CERTIFICATE	20-02-06421
KCs KOSHA CERTIFICATE	14-GA4BO-0257X	UkrSEPRO CERTIFICATE	СЦ 19.0371X
SANS	IA MS-XPL21804 21.0010X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminum Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION					GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E2FU	1RA	M20	15.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	72.5	PVC04	0.16
20S	E2FU	1RA	M20	15.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	70.0	PVC04	0.15
20	E2FU	1RA	M20	15.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	73.0	PVC06	0.21
25S	E2FU	1RA	M25	15.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.33
25	E2FU	1RA	M25	15.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.33
32	E2FU	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	86.0	PVC11	0.43
40	E2FU	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	90.0	PVC15	0.63
50S	E2FU	1RA	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	91.0	PVC18	0.76
50	E2FU	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	95.0	PVC21	0.95
63S	E2FU	1RA	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.0	PVC23	1.35
63	E2FU	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	104.0	PVC25	1.35
75S	E2FU	1RA	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	115.0	PVC28	2.12
75	E2FU	1RA	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	117.0	PVC30	2.43
90	E2FU	1RA	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	0.8	1.6	3.15	4.0	114.3	125.4	147.0	PVC32	4.23
100	E2FU	1RA	M100	24.0	3 ½"	42.8	4"	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	LSF33	4.47
115	E2FU	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	162.0	LSF34	6.22
130	E2FU	1RA	M130	24.0	5"	46.8	-	97.0	110.1	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	174.0	LSF35	8.38

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E2FU1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE2FU1RA035 = Brass 1 ½" NPT, 20E2FU1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E1FX

E1FX INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR BRAIDED & STEEL TAPE ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct and remote installation
- Displacement type flameproof inner seal
- Controlled outer load retention seal
- Designed to reduce the effects of coldflow, see CMP Technical Document TS001
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance

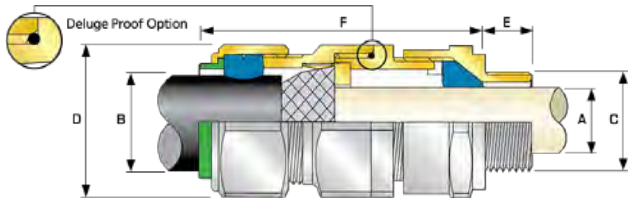
IP66 IP67 IP68

EMC +130˚C ↑ -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
DELUGE PROTECTION COMPLIANCE	DTS01:91 option available on request (white ferrule for identification purposes)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Armoured and Jacketed
SEALING TECHNIQUE	CMP Inner Displacement Seal and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1324X, CML18ATEX4316X	IECEx CERTIFICATE	IECEx CML 18.0181X
UKEX CERTIFICATE	CML 21UKEX1252X, CML 21UKEX4253X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Class I, Zone 1, AEx e II, AEx nR II		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7		
EAC CERTIFICATE	RU C-GB.АД07.В.02515/20	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002870	INMETRO APPROVAL	TÜV 12.0618X
RETIE APPROVAL NUMBER	03866	ECAS CERTIFICATE	20-02-06421
KCs KOSHA CERTIFICATE	14-GA4BO-0257X	UkrSEPRO CERTIFICATE	СЦ 19.0371X
SANS	IA MS-XPL21804 21.0010X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION											
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E1FX	1RA	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	24.0	26.4	72.5	PVC04	0.16
20S	E1FX	1RA	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	24.0	26.4	70.0	PVC04	0.15
20	E1FX	1RA	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	30.5	33.6	73.0	PVC06	0.21
25S	E1FX	1RA	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	37.5	41.3	89.0	PVC09	0.33
25	E1FX	1RA	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	37.5	41.3	89.0	PVC09	0.33
32	E1FX	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	46.0	50.6	86.0	PVC11	0.43
40	E1FX	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	55.0	60.5	90.0	PVC15	0.62
50S	E1FX	1RA	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	60.0	66.0	91.0	PVC18	0.75
50	E1FX	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	70.1	77.1	95.0	PVC21	0.95
63S	E1FX	1RA	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	75.0	82.5	102.0	PVC23	1.34
63	E1FX	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	80.0	88.0	104.0	PVC25	1.34
75S	E1FX	1RA	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	90.0	99.0	115.0	PVC28	2.11
75	E1FX	1RA	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	100.0	110.0	117.0	PVC30	2.42
90	E1FX	1RA	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	114.3	125.4	147.0	PVC32	4.21
100	E1FX	1RA	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	123.0	135.3	140.0	LSF33	4.45
115	E1FX	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	133.4	146.7	162.0	LSF34	6.19
130	E1FX	1RA	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	152.4	167.6	174.0	LSF35	8.34

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1FX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE1FX1RA035 = Brass 1 ½" NPT, 20E1FX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E2FX

E2FX INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR LEAD SHEATHED BRAIDED & STEEL TAPE ARMOURED CABLES

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct and remote installation
- Displacement type flameproof inner seal
- Controlled outer load retention seal
- Designed to reduce the effects of coldflow, see CMP Technical Document TS001
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance

IP66 IP67 IP68

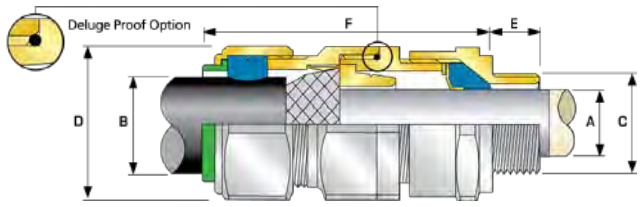
EMC +130˚C -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
DELUGE PROTECTION COMPLIANCE	DTS01:91 option available on request (white ferrule for identification purposes)

CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Lead Sheathed and Wire Braid Armour (LC/SWB), Lead Sheathed and Pliable Wire Armour (LC/PWA), Lead Sheathed and Steel Tape Armour (LC/STA), Lead Sheathed and Strip Armour (LC/ASA)
SEALING TECHNIQUE	CMP Inner Displacement Seal and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath
ARMOUR CLAMPING	Detachable Armour Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1324X, CML18ATEX4316X	IECEx CERTIFICATE	IECEx CML 18.0181X
UKEX CERTIFICATE	CML 21UKEX1252X, CML 21UKEX4253X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Class I, Zone 1, AEx e II, AEx nR II		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure 4X, Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7		
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002870	INMETRO APPROVAL	TÜV 12.0618X
RETIE APPROVAL NUMBER	03866	ECAS CERTIFICATE	20-02-06421
KCs KOSHA CERTIFICATE	14-GA4BO-0257X	UkrSEPRO CERTIFICATE	СЦ 19.0371X
SANS	IA MS-XPL21804 21.0010X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION											
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E2FX	1RA	M20	15.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.3	1.0	24.0	26.4	72.5	PVC04	0.16
20S	E2FX	1RA	M20	15.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.3	1.0	24.0	26.4	70.0	PVC04	0.15
20	E2FX	1RA	M20	15.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.4	1.0	30.5	33.6	73.0	PVC06	0.21
25S	E2FX	1RA	M25	15.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	0.4	1.2	37.5	41.3	89.0	PVC09	0.33
25	E2FX	1RA	M25	15.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	0.4	1.2	37.5	41.3	89.0	PVC09	0.33
32	E2FX	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	0.4	1.2	46.0	50.6	86.0	PVC11	0.43
40	E2FX	1RA	M40	15.0.	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	0.4	1.6	55.0	60.5	90.0	PVC15	0.63
50S	E2FX	1RA	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	0.4	1.6	60.0	66.0	91.0	PVC18	0.76
50	E2FX	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	0.6	1.6	70.1	77.1	95.0	PVC21	0.95
63S	E2FX	1RA	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	0.6	1.6	75.0	82.5	102.0	PVC23	1.35
63	E2FX	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	0.6	1.6	80.0	88.0	104.0	PVC25	1.95
75S	E2FX	1RA	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	0.6	1.6	90.0	99.0	115.0	PVC28	2.12
75	E2FX	1RA	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	0.6	1.6	100.0	110.0	117.0	PVC30	2.43
90	E2FX	1RA	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	0.8	1.6	114.3	125.4	147.0	PVC32	4.23
100	E2FX	1RA	M100	24.0	3 ½"	42.8	4"	76.0	88.1	86.1	101.4	0.8	1.6	123.0	135.3	140.0	LSF33	4.47
115	E2FX	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	0.8	1.6	133.4	146.7	162.0	LSF34	6.22
130	E2FX	1RA	M130	24.0	5"	46.8	-	97.0	110.1	110.2	123.2	0.8	1.6	152.4	167.6	174.0	LSF35	8.38

Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E2FX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE2FX1RA035 = Brass 1 ½" NPT, 20E2FX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E1FW

E1FW GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct and remote installation
- Displacement type flameproof inner seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- Designed to reduce the effects of coldflow, see CMP Technical Document TS001

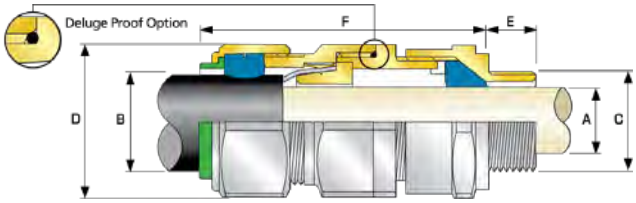
IP66 IP67 IP68

EMC +130˚C -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121: Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
DELUGE PROTECTION COMPLIANCE	DTS01:91 option available on request (white ferrule for identification purposes)
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
ARMOUR CLAMPING	Detachable Armour Cone and AnyWay Universal Clamping Ring
SEALING TECHNIQUE	CMP Inner Displacement Seal and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1324X, CML18ATEX4316X	IECEx CERTIFICATE	IECEx CML 18.0181X
UKEX CERTIFICATE	CML 21UKEX1252X, CML 21UKEX4253X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2, Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Class I, Zone 1, AEx e II, AEx nR II		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-60079-0, 1, 7, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7		
EAC CERTIFICATE	RU C-GB.АД07.B.02515/20	UkrSEPRO CERTIFICATE	CЦ 19.0371X
KCs KOSHA CERTIFICATE	14-GA4BO-0257X	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002870	INMETRO APPROVAL	TÜV 12.0618X
RETIE APPROVAL NUMBER	03866	ECAS CERTIFICATE	20-02-06421
SANS	IA MS-XPL21804 21.0010X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E1FW	1RA5	M20	15.0	3.1	8.6	6.1	13.1	0.8	1.25	24.0	26.4	72.5	PVC04	0.16
20S	E1FW	1RA5	M20	15.0	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	PVC04	0.15
20	E1FW	1RA5	M20	15.0	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	PVC06	0.21
25S	E1FW	1RA5	M25	15.0	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	PVC09	0.33
25	E1FW	1RA5	M25	15.0	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.33
32	E1FW	1RA5	M32	15.0	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	PVC11	0.43
40	E1FW	1RA5	M40	15.0	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	90.0	PVC15	0.62
50S	E1FW	1RA5	M50	15.0	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	91.0	PVC18	0.75
50	E1FW	1RA5	M50	15.0	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	95.0	PVC21	0.95
63S	E1FW	1RA5	M63	15.0	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	102.0	PVC23	1.34
63	E1FW	1RA5	M63	15.0	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	104.0	PVC25	1.34
75S	E1FW	1RA5	M75	15.0	52.8	61.9	59.0	72.0	2.0	2.5	90.0	99.0	115.0	PVC28	2.11
75	E1FW	1RA5	M75	15.0	59.1	67.9	66.7	78.4	2.5	3.0	100.0	110.0	117.0	PVC30	2.42
90	E1FW	1RA5	M90	24.0	66.6	78.6	76.2	90.3	3.15	4.0	114.3	125.4	147.0	PVC32	4.21
100	E1FW	1RA5	M100	24.0	76.0	90.9	86.1	101.4	3.15	4.0	123.0	135.3	140.0	LSF33	4.45
115	E1FW	1RA5	M115	24.0	86.0	97.9	101.5	110.2	3.15	4.0	133.4	146.7	162.0	LSF34	6.19
130	E1FW	1RA5	M130	24.0	97.0	114.9	110.2	123.2	3.1.5	4.0	152.4	167.6	174.0	LSF35	8.34

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1FW1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE1FW1RA035 = Brass 1 ½" NPT, 20E1FW1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

E2FW

E2FW GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR LEAD SHEATHED STEEL & ALUMINIUM WIRE ARMOURED CABLES

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct and remote installation
- Displacement type flameproof inner seal
- Controlled outer load retention seal
- Designed to reduce the effects of coldflow, see CMP Technical Document TS001
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance

IP66 IP67 IP68

EMC +130˚C -60˚C

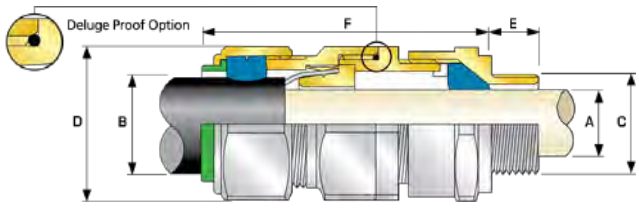
Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
DELUGE PROTECTION COMPLIANCE	DTS01:91 option available on request (white ferrule for identification purposes)

CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Lead Sheathed and Single Wire Armour (SWA), Lead Sheathed and Aluminium Wire Armour (AWA)
ARMOUR CLAMPING	Detachable Armour Cone and AnyWay Universal Clamping Ring
SEALING TECHNIQUE	CMP Inner Displacement Seal and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Lead Covering and Cable Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1324X, CML18ATEX4316X	IECEx CERTIFICATE	IECEx CML 18.0181X
UKEX CERTIFICATE	CML 21UKEX1252X, CML 21UKEX4253X		
CODE OF PROTECTION	II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, II 3G Ex nR IIC Gc, I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Class I, Zone 1, AEx e II, AEx nR II		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A,B,C and D, Class II, Div 2, Groups E,F and G, Class III, Enclosure Type 4X, Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, 15 ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7, 15		
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	UkrSEPRO CERTIFICATE	СЦ 19.0371X
KCs KOSHA CERTIFICATE	14-GA4BO-0257X	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002870	INMETRO APPROVAL	TÜV 12.0618X
RETIE APPROVAL NUMBER	03866	ECAS CERTIFICATE	20-02-06421
SANS	IA MS-XPL21804 21.0010X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA,BV: 43180		

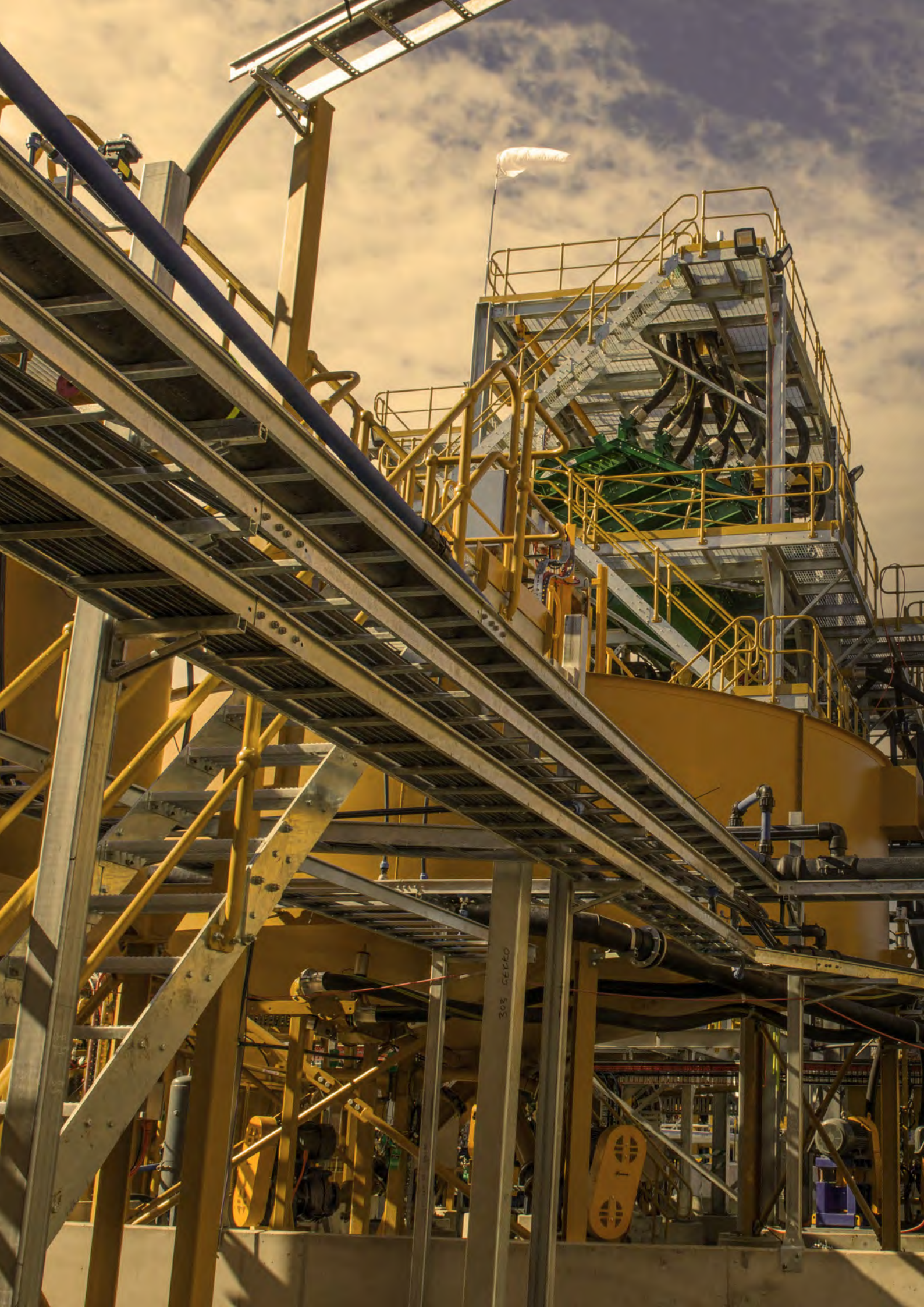
COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					LEAD SHEATH DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION											
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT)	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E2FW	1RA	M20	15.0	½"	19.9	¾"	3.1	7.8	6.1	13.1	0.8	1.25	24.0	26.4	72.5	PVC04	0.16
20S	E2FW	1RA	M20	15.0	½"	19.9	¾"	6.1	11.0	9.5	15.9	0.8	1.25	24.0	26.4	70.0	PVC04	0.15
20	E2FW	1RA	M20	15.0	½"	19.9	¾"	6.5	13.4	12.5	20.9	0.8	1.25	30.5	33.6	73.0	PVC06	0.21
25S	E2FW	1RA	M25	15.0	¾"	20.2	1"	11.1	19.3	14.0	22.0	1.25	1.6	37.5	41.3	89.0	PVC09	0.33
25	E2FW	1RA	M25	15.0	¾"	20.2	1"	11.1	19.3	18.2	26.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.33
32	E2FW	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	25.5	23.7	33.9	1.6	2.0	46.0	50.6	86.0	PVC11	0.43
40	E2FW	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	31.2	27.9	40.4	1.6	2.0	55.0	60.5	90.0	PVC15	0.63
50S	E2FW	1RA	M50	15.0	1 ½"	26.1	2"	29.5	37.2	35.2	46.7	2.0	2.5	60.0	66.0	91.0	PVC18	0.76
50	E2FW	1RA	M50	15.0	2"	26.9	2 ½"	35.6	42.6	40.4	53.0	2.0	2.5	70.1	77.1	95.0	PVC21	0.95
63S	E2FW	1RA	M63	15.0	2"	26.9	2 ½"	40.1	48.5	45.6	59.4	2.0	2.5	75.0	82.5	102.0	PVC23	1.35
63	E2FW	1RA	M63	15.0	2 ½"	39.9	3"	47.2	54.2	54.6	65.8	2.0	2.5	80.0	88.0	104.0	PVC25	1.35
75S	E2FW	1RA	M75	15.0	2 ½"	39.9	3"	52.8	60.2	59.0	72.0	2.0	2.5	90.0	99.0	115.0	PVC28	2.12
75	E2FW	1RA	M75	15.0	3"	41.5	3 ½"	59.1	65.2	66.7	78.4	2.5	3.0	100.0	110.0	117.0	PVC30	2.43
90	E2FW	1RA	M90	24.0	3 ½"	42.8	4"	66.6	77.1	76.2	90.3	3.15	4.0	114.3	125.4	147.0	PVC32	4.23
100	E2FW	1RA	M100	24.0	3 ½"	42.8	4"	76.0	88.1	86.1	101.4	3.15	4.0	123.0	135.3	140.0	LSF33	4.47
115	E2FW	1RA	M115	24.0	4"	44.0	5"	86.0	94.1	101.5	110.2	3.15	4.0	133.4	146.7	162.0	LSF34	6.22
130	E2FW	1RA	M130	24.0	5"	46.8	-	97.0	110.1	110.2	123.2	3.15	4.0	152.4	167.6	174.0	LSF35	8.38

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E2FW1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SE2FW1RA035 = Brass 1 ½" NPT, 20E2FW1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.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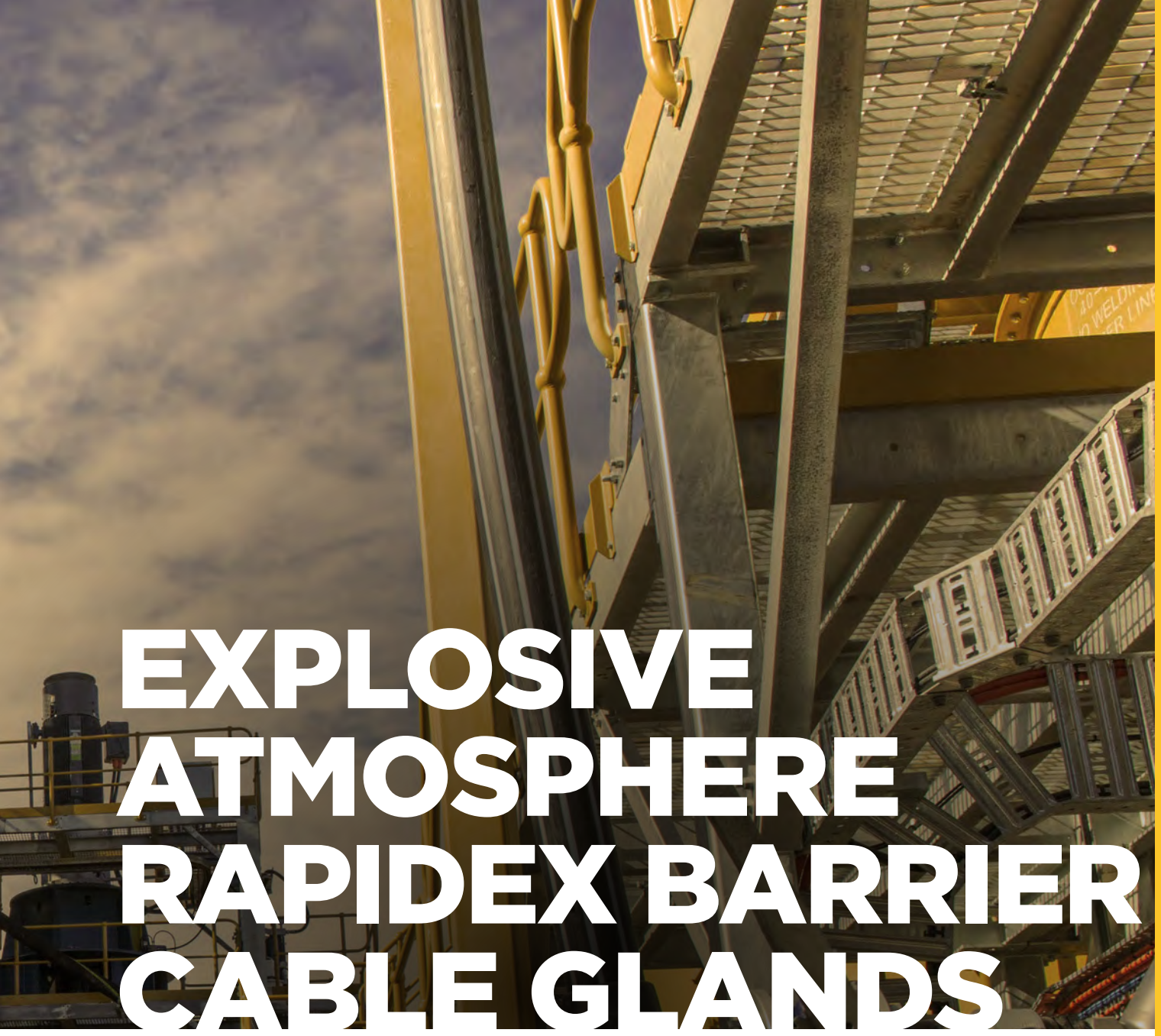


EXPLOSIVE ATMOSPHERE RAPIDEX BARRIER CABLE GLANDS

RapidEx patented liquid pour, fast-curing, liquid resin seal installs in seconds and cures in minutes. Its unique formula begins with a low viscosity liquid that flows into the cable interstices completely surrounding the cable conductors, driving out the air in the process. The viscosity then increases and completely cures in minutes (dependening on ambient temperature).

During application the liquid resin ensures a complete and total seal without any gaps. In the process of curing, the RapidEx resin adheres to both the cable conductors and the inside of the barrier tube creating a bond that will not crack or shrink with changes in temperature.

The RapidEx liquid pour sealing system enhances reliability, reduces risk, man hours and cost.

With its patent granted in global locations including UK, USA, Australia and Singaprore, RapidEx is a trusted product used by customers on many projects around the world.

The cable glands in the following section are shown in nickel plated brass. Alternative materials are available.

RAPID Ex™

RAPIDEX THE FAST-CURING, GAS BLOCKING, LIQUID RESIN SEAL

THE EFFECTIVE SEALING OF INSTRUMENT AND ELECTRICAL CABLES SHOULD NOT BE UNDERESTIMATED.

Traditional barrier cable glands employing an epoxy-cured clay-based sealing compound, have been used in the industry for many years, to provide effective explosion protection. However, a certain degree of skill is required with this traditional installation process and the risk of voids increases with the number of cable cores.

Multi-core cable requires the highest degree of competence and a long installation time to ensure a void-free, safe installation. An inability to recognise this will lead to rework, or risk of failure of the seal.

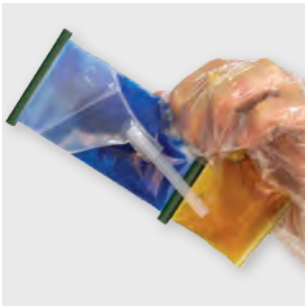
RapidEx is a liquid pour, fast-curing, liquid resin barrier seal that installs in seconds and cures in minutes.

Its unique formula begins with a low viscosity liquid that flows into the cable interstices completely surrounding the cable conductors, and in the process displacing the air from the cable gland's sealing chamber ensuring the 'perfect seal'.

- The viscosity increases and completely cures in less than 40 minutes (at 20°C / 68°F)
- Enhances reliability, reduces risk
- Delivers unprecedented reliability
- Minimises installation time
- Clean and easy to use

CMP RapidEx is certified for use in explosive atmospheres with global certification including approval under NEC, CEC and IEC installation codes, and is available with a series of CMP barrier cable glands and unions.

MIX



APPLY

SEAL

	CABLE GLAND SIZE (PX** LINE 1, TMC2X LINE 2)																
	LINE 1	20S	20/20L	25	25S	32		40	50S	50	63S	63	75S	75	90	100	
	LINE 2	075	099	118		137	162	190		200	233			272	325	376	425
THREAD SIZE	M20	1 x 30	1 x 30														
	M25			1 x 30	1 x 30												
	M32					1 x 30											
	M40							1 x 30									
	M50								1 x 80	1 x 80							
	M63										2 x 80	2 x 80					
	M75												2 x 80	2 x 80			
	M90														3 x 80		
	M100															4 x 80	
	½"	1 x 30	1 x 30														
	¾"	1 x 30	1 x 30	1 x 30													
	1"			1 x 30	1 x 30	1 x 30	1 x 30										
	1 ¼"					1 x 30	1 x 30	1 x 30									
	1 ½"						1 x 30	1 x *	1 x 80	1 x 80	1 x 80						
	2"								1 x 80	1 x 80	2 x 80	2 x 80		2 x 80			
	2 ½"										2 x 80	3 x 80	2 x 80	2 x 80			
	3"												2 x 80	3 x 80	3 x 80	4 x 80	
	3 ½"														3 x 80	4 x 80	
	4"															4 x 80	4 x 80

The table above shows the quantity and volume (30cc or 80cc bag) of RapidEx resin required for each cable gland size.
* 1 ½" thread size requires different packet sizes of RapidEx dependant on product. TMC2X requires 1 x 80, all other products require 1 x 30.

PATENT GRANTED: ES 2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153846, US 10193321, US1034078

PX2KREX

RAPID Ex

PX2KREX GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE RAPIDEX BARRIER CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

- RapidEx liquid pour sealing system
  -Enhances reliability, reduces risk
  -Reduces man hours
  -Reduces cost
- Metal-to-metal armour clamping
- Direct and remote installation
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents over tightening
- -60˚C to +85˚C
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- As standard in nickel plated brass with NPT thread form
- RapidEx liquid barrier resin seals around internal cable cores after removing any cable inner sheath/ bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68

DELUGE PROTECTED | EMC | +85˚C / -60˚C

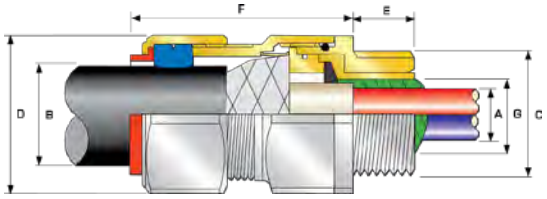
Ex db | Ex eb | Ex ta | Ex nR

SUPPLIED IN PACK WITH RAPIDEX RESIN

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121: Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 & IP68****
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Wire Braid Armour (e.g. SWB), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Strip Armour (e.g. ASA)***
ARMOUR CLAMPING	Detachable Resin Tube / Cone & AnyWay Universal Clamping Ring
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Resin Barrier
SEALING TECHNIQUE	Unique CMP Outer Seal (Load Retention Seal)
SEALING AREA(S)	Inner RapidEx Barrier Seal & Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



PATENT GRANTED: ES 2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153846, US 10193321, US1034078

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 2, Groups F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc		
cCSA CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 2, Groups F and G; Class III, Div 2; Type 4X; Oil Resistance II; Ex nR IIC Gc		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94, CAN/CSA-C22.2 No 60079-1,7,15,31, CAN/CSA-E61241-1-1, ANSI/UL 514B, 50, 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
cULus CERTIFICATE (20S16 - 90)	E161256		
CODE OF PROTECTION**	Class I Div 1 and 2, Groups A,B,C, and D; Class II Div 1 and 2, Groups F, and G		
COMPLIANCE STANDARDS	UL 2225, CSA C22.2 No 174, UL 514B, CSA C22.2 No 18, CSA C22.2 No 30		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	Check website for latest certificate number		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
KCs CERTIFICATE	14_GA4BO_0252X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
										GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MAX	MAX	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KREX	1RA	M20	15.0	21	11.7	11.7	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	62.0	PVC06	0.24
20S	PX2KREX	1RA	M20	15.0	21	11.7	11.7	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	PVC06	0.23
20	PX2KREX	1RA	M20	15.0	21	12.6	12.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	PVC06	0.24
25S	PX2KREX	1RA	M25	15.0	30	17.5	17.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
25	PX2KREX	1RA	M25	15.0	30	17.5	17.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
32	PX2KREX	1RA	M32	15.0	50	23.6	23.9	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	PVC11	0.57
40	PX2KREX	1RA	M40	15.0	59	30.0	30.3	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	PVC15	0.80
50S	PX2KREX	1RA	M50	15.0	89	36.6	36.9	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	PVC18	0.90
50	PX2KREX	1RA	M50	15.0	89	41.0	41.3	40.4	53.0	0.6	1.6	2.0	2.5	70.0	77.0	77.0	PVC21	1.19
63S	PX2KREX	1RA	M63	15.0	115	47.9	48.4	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	79.7	PVC23	1.39
63	PX2KREX	1RA	M63	15.0	115	53.7	54.0	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.3	PVC25	1.41
75S	PX2KREX	1RA	M75	15.0	140	59.9	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	86.8	PVC28	2.09
75	PX2KREX	1RA	M75	15.0	140	64.2	64.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.3	PVC30	2.54
90	PX2KREX	1RA	M90	20.0	140	75.3	75.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.1	PVC32	3.71
100	PX2KREX	1RA	M100	20.0	200	83.6	85.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	LSF33	4.31

For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38,3 ½" = 39 , 4" - 310 (Brass requires prefix "0")

Examples: 32PX2KREX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KREX1RA035 = Brass 1 ½" NPT, 25PX2KREX1RA432 = Stainless Steel ¾" NPT, 20PX2KREX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

PX2KWREX

RAPID Ex

PX2KWREX GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE RAPIDEX BARRIER CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- RapidEx liquid pour sealing system reduces installation time
- Metal-to-metal armour clamping
- Direct and remote installation
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents over tightening
- -60˚C to +85˚C
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- RapidEx liquid barrier resin seals around internal cable cores after removing any cable inner sheath/ bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED EMC +85˚C ↑ -60˚C

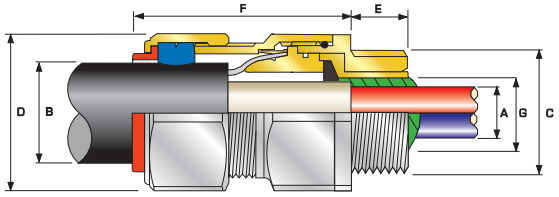
Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B
INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91

CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)***
ARMOUR CLAMPING	Detachable Resin Tube / Cone and AnyWay Universal Clamping Ring
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Barrier Compound
SEALING TECHNIQUE	Unique CMP Outer Seal (Load Retention Seal)
SEALING AREA(S)	RapidEx Resin Barrier and Cable Outer Sheath
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Brass, Stainless Steel, Aluminium

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



PATENT GRANTED: ES 2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153846, US 10193321, US1034078

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 100)	2288626		
CSAus CODE OF PROTECTION***	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc		
cCSA CODE OF PROTECTION***	Class I, Div 2, Groups A,B,C, and D; Class II, Div 2, Groups F and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94, CSA-C22.2 No 60079-0,1,7,15, CAN/CSA-E61241-1-1, ANSI/UL 514B, 50, 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
CULUS CERTIFICATE (20S16 - 90)	E161256		
CODE OF PROTECTION	Class I Div 1 and 2, Groups A, B, C, and D; Class II Div 1 and 2, Groups E, F, and G		
COMPLIANCE STANDARDS	UL 2225, CSA C22.2 No 174, UL 514B, CSA C22.2 No 18, CSA C22.2 No 30		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	CЦ 19.0371X
EAC CERTIFICATE	Check website for latest certificate number		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172 DNV: TAE000000Y ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION												
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MAX	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KWREX	1RA	M20	15.0	½"	0.78	¾"	21	11.7	11.7	6.1	13.1	0.8	1.25	30.5	33.6	62.0	PVC06	0.24
20S	PX2KWREX	1RA	M20	15.0	½"	0.78	¾"	21	11.7	11.7	9.5	15.9	0.8	1.25	30.5	33.6	62.0	PVC06	0.23
20	PX2KWREX	1RA	M20	15.0	½"	0.78	¾"	21	12.6	12.9	12.5	20.9	0.8	1.25	30.5	33.6	63.0	PVC06	0.24
25S	PX2KWREX	1RA	M25	15.0	¾"	0.80	1"	30	17.5	17.9	14.0	22.0	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
25	PX2KWREX	1RA	M25	15.0	¾"	0.80	1"	30	17.5	17.9	18.2	26.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
32	PX2KWREX	1RA	M32	15.0	1"	0.98	1 ¼"	50	23.6	23.9	23.7	33.9	1.6	2.0	46.0	50.6	75.0	PVC11	0.57
40	PX2KWREX	1RA	M40	15.0	1 ¼"	1.01	1 ½"	59	30.0	30.3	27.9	40.4	1.6	2.0	55.0	60.5	75.0	PVC15	0.80
50S	PX2KWREX	1RA	M50	15.0	1 ½"	1.03	2"	89	36.6	36.9	35.2	46.7	2.0	2.5	60.0	66.0	77.0	PVC18	0.90
50	PX2KWREX	1RA	M50	15.0	2"	1.06	2 ½"	115	41.0	41.3	40.4	53.0	2.0	2.5	70.0	77.0	77.0	PVC21	1.19
63S	PX2KWREX	1RA	M63	15.0	2"	1.06	2 ½"	115	47.9	48.4	45.6	59.4	2.0	2.5	75.0	82.5	79.7	PVC23	1.39
63	PX2KWREX	1RA	M63	15.0	2 ½"	1.57	3"	115	53.7	54.0	54.6	65.8	2.0	2.5	80.0	88.0	80.3	PVC25	1.41
75S	PX2KWREX	1RA	M75	15.0	2 ½"	1.57	3"	140	59.9	60.2	59.0	72.0	2.0	2.5	90.0	99.0	86.8	PVC28	2.09
75	PX2KWREX	1RA	M75	15.0	3"	1.63	3 ½"	140	64.2	64.2	66.7	78.4	2.5	3.0	100.0	110.0	88.3	PVC30	2.54
90	PX2KWREX	1RA	M90	20.0	3 ½"	1.69	4"	140	75.3	75.6	76.2	90.3	3.15	4.0	115.0	126.5	102.1	PVC32	3.71
100	PX2KWREX	1RA	M100	20.0	3 ½"	1.69	4"	200	83.6	85.9	86.1	101.4	3.15	4.0	127.0	139.7	114.0	LSF33	4.81

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" - 310 (Brass requires prefix "0")

Examples: 32PX2KWREX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KWREX1RA035 = Brass 1 ½" NPT, 25PX2KWREX1RA432 = Stainless Steel ¾" NPT, 20PX2KWREX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

PX2KXREX

RAPID Ex

PX2KXREX GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE RAPIDEX BARRIER CABLE GLAND

FOR ALL TYPES OF BRAIDED & TAPE ARMOURED CABLES

- RapidEx liquid pour sealing system reduces installation time
- Metal-to-metal armour clamping
- Direct and remote installation
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents over tightening
- -60˚C to +85˚C
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- RapidEx liquid barrier resin seals around internal cable cores after removing any cable inner sheath/ bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED EMC +85˚C -60˚C

Ex db Ex eb Ex ta Ex nR

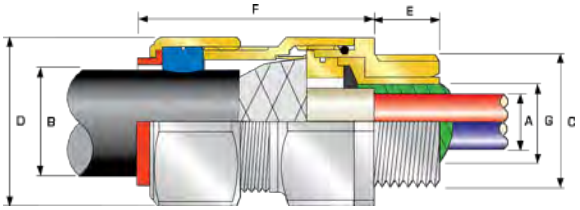
PX2KXREX

EXPLOSIVE ATMOSPHERE RAPIDEX CABLE GLANDS

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Armoured and Jacketed***
ARMOUR CLAMPING	Detachable Resin Tube / Cone and AnyWay Universal Clamping Ring
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Resin Barrier
SEALING TECHNIQUE	CMP Outer Load Retention Seal and Inner RapidEx Barrier Seal
SEALING AREA(S)	Inner RapidEx Barrier Seal and Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



PATENT GRANTED: ES 2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153846, US 10193321, US1034078

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC, Ex eb IIC Gb, Ex ta IIIC Da Ex II 3G, Ex nR IIC Gc Ex I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I,Zone 2, AEx nR IIC Gc; Class I, Zone 20, AEx ta IIIC Da		
cCSA CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 174, 94, CSA-C22.2 No 60079-0,1,7,15,31, CAN/CSA-E61241-1-1, ANSI/UL 514B, 50, 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	Check website for latest certificate number		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION												
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MAX	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KXREX	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	6.1	13.1	0.3	1.0	30.5	33.6	62.0	PVC06	0.240
20S	PX2KXREX	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	9.5	15.9	0.3	1.0	30.5	33.6	62.0	PVC06	0.230
20	PX2KXREX	1RA	M20	15.0	½"	19.9	¾"	21	12.6	12.9	12.5	20.9	0.4	1.0	30.5	33.6	63.0	PVC06	0.240
25S	PX2KXREX	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	14.0	22.0	0.4	1.2	37.5	41.3	69.5	PVC09	0.370
25	PX2KXREX	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	18.2	26.2	0.4	1.2	37.5	41.3	69.5	PVC09	0.370
32	PX2KXREX	1RA	M32	15.0	1"	25.0	1 ¼"	50	23.6	23.9	23.7	33.9	0.4	1.2	46.0	50.6	75.0	PVC11	0.570
40	PX2KXREX	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	0.4	1.6	55.0	60.5	75.0	PVC15	0.800
50S	PX2KXREX	1RA	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	0.4	1.6	60.0	66.0	77.0	PVC18	0.900
50	PX2KXREX	1RA	M50	15.0	2"	26.9	2 ½"	115	41.0	41.3	40.4	53.0	0.6	1.6	70.0	77.0	77.0	PVC21	1.190
63S	PX2KXREX	1RA	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	0.6	1.6	75.0	82.5	79.7	PVC23	1.390
63	PX2KXREX	1RA	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	0.6	1.6	80.0	88.0	80.3	PVC25	1.410
75S	PX2KXREX	1RA	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	0.6	1.6	90.0	99.0	86.8	PVC28	2.090
75	PX2KXREX	1RA	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	0.6	1.6	100.0	110.0	88.3	PVC30	2.540
90	PX2KXREX	1RA	M90	20.0	3 ½"	42.8	4"	140	75.3	75.6	76.2	90.3	0.8	1.6	115.0	126.5	102.1	PVC32	3.710
100	PX2KXREX	1RA	M100	20.0	3 ½"	42.8	4"	200	83.6	85.9	86.1	101.4	0.8	1.6	127.0	139.7	114.0	LSF33	4.810

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38,3 ½" = 39 , 4" - 310 (Brass requires prefix "0")

Examples: 32PX2KXREX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KXREX1RA035 = Brass 1 ½" NPT, 25PX2KXREX1RA432 = Stainless Steel ¾" NPT, 20PX2KXREX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

PX2KPBREX

PX2KPBREX INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE RAPIDEX BARRIER CABLE GLAND

FOR ALL TYPES OF LEAD SHEATHED ARMOURED CABLES

- Effectively earths / grounds lead sheathed cables
- RapidEx liquid pour sealing system reduces installation time
- Metal-to-metal armour clamping
- Direct and remote installation
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- -60˚C to +85˚C
- Internationally marked, UKEX, IECEx and ATEX
- Superior EMC performance
- RapidEx liquid barrier resin seals around internal cable cores after removing any cable inner sheath/ bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68

DELUGE PROTECTED | EMC | +85˚C ↑ -60˚C

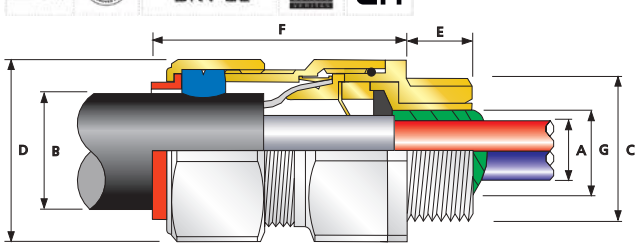
Ex db | Ex eb | Ex ta | Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Lead Sheathed and Single Wire Armour (LC/SWA), Lead Sheathed and Aluminium Wire Armour (LC/AWA), Lead Sheathed and Wire Braid Armour (LC/SWB), Lead Sheathed and Pliable Wire Armour (LC/PWA), Lead Sheathed and Steel Tape Armour (LC/STA), Lead Sheathed and Aluminium Strip Armour (LC/ASA)
ARMOUR CLAMPING	Detachable Compound Tube / Cone and AnyWay Universal Clamping Ring
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Barrier Compound
SEALING TECHNIQUE	CMP Outer Displacement Seal and Inner RapidEx Barrier Seal
SEALING AREA(S)	Inner Compound Barrier and Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

PATENT GRANTED: ES 2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153846, US 10193321, US1034078

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
UkrSEPRO	СЦ 19.0371X		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172 DNV: TAE000000Y ABS: 20-LD1948801-PDA, BV: 43180		



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	LEAD SHEATH DIAMETER 'G'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION							GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KPBREX	1RA	M20	15.0	½"	19.9	¾"	21	7.8	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	62.0	PVC06	0.25
20S	PX2KPBREX	1RA	M20	15.0	½"	19.9	¾"	21	11.0	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	PVC06	0.23
20	PX2KPBREX	1RA	M20	15.0	½"	19.9	¾"	21	12.6	6.5	13.4	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	PVC06	0.24
25S	PX2KPBREX	1RA	M25	15.0	¾"	20.2	1"	30	17.5	11.1	19.3	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
25	PX2KPBREX	1RA	M25	15.0	¾"	20.2	1"	30	17.5	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
32	PX2KPBREX	1RA	M32	15.0	1"	25.0	1 ¼"	50	23.6	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	PVC11	0.57
40	PX2KPBREX	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	PVC15	0.80
50S	PX2KPBREX	1RA	M50	15.0	1 ½"	26.1	2"	89	36.6	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	PVC18	0.90
50	PX2KPBREX	1RA	M50	15.0	2"	26.9	2 ½"	89	41.0	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.0	77.0	77.0	PVC21	1.19
63S	PX2KPBREX	1RA	M63	15.0	2"	26.9	2 ½"	115	47.9	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	79.7	PVC23	1.41
63	PX2KPBREX	1RA	M63	15.0	2 ½"	39.9	3"	115	53.7	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.3	PVC25	1.44
75S	PX2KPBREX	1RA	M75	15.0	2 ½"	39.9	3"	140	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	86.8	PVC28	2.13
75	PX2KPBREX	1RA	M75	15.0	3"	41.5	3 ½"	140	64.2	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.3	PVC30	2.57
90	PX2KPBREX	1RA	M90	20.0	3 ½"	42.8	4"	140	75.3	66.6	77.1	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.1	PVC32	3.71
100	PX2KPBREX	1RA	M100	20.0	3 ½"	42.8	4"	200	83.6	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	LSF33	4.87

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32PX2KPBREX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KPBREX1RA035 = Brass 1 ½" NPT, 25PX2KPBREX1RA432 = Stainless Steel ¾" NPT, 20PX2KPBREX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

PXSS2KREX

RAPID Ex

PXSS2KREX GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE RAPIDEX BARRIER CABLE GLAND

FOR ALL TYPES OF UNARMOURED CABLES & BRAIDED CABLES

- RapidEx liquid pour sealing system reduces installation time
- Direct and remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Deluge protected
- Disconnectable, union feature design
- -60°C to +85°C
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- As standard in nickel plated brass
- RapidEx liquid barrier resin seals around internal cable cores after removing any cable inner sheath/bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED

+85°C / -60°C

Ex db Ex eb Ex ta Ex nR

SUPPLIED IN PACK WITH RAPIDEX RESIN

PXSS2KREX

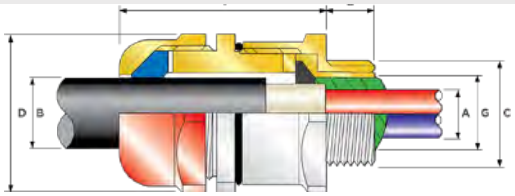
EXPLOSIVE ATMOSPHERE RAPIDEX CABLE GLANDS

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121: Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Unarmoured***
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Barrier Compound
SEALING TECHNIQUE	CMP Outer Displacement Seal and Inner RapidEx Barrier Seal
SEALING AREA(S)	RapidEx Resin Barrier and Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
Where the cable is permitted by code (NEC and/or CEC) * IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

PATENT GRANTED: ES 2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153846, US 10193321, US1034078



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc; Class I, Zone 20, AEx ta IIIC Da		
cCSA CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1and 2, Groups E, F and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94; CAN/CSA-C22.2 No 60079-0,7,15,31; CAN/CSA-E61241-1-1; ANSI/UL 514B, 50, 2225; ANSI/ISA 60079-31; UL60079-0,1,7,15		
cULus CERTIFICATE (20S - 90)	E161256		
CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups F and G		
COMPLIANCE STANDARDS	UL 2225, UL 514B, UL 60079-0, UL 60079-7, CSA C22.2 No. 174		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	CЦ 19.0371X
EAC CERTIFICATE	Check website for latest certificate number	CCC CERTIFICATION	2020322313003190
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION										
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MAX	MAX	MIN	MAX	MAX	MAX			
20S16	PXSS2KREX	1RA	M20	15.0	½"	19.9	¾"	21	8.6	8.6	3.1	8.6	30.0	33.0	53.1	PVC06	0.200
20S	PXSS2KREX	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	6.1	11.7	30.0	33.0	53.1	PVC06	0.200
20	PXSS2KREX	1RA	M20	15.0	½"	19.9	¾"	21	12.6	12.9	6.5	14.0	30.0	33.0	54.2	PVC06	0.200
20L	PXSS2KREX	1RA	M20	15.0	½"	19.9	¾"	21	12.6	12.9	10.0	15.9	30.0	33.0	54.2	PVC06	0.200
25	PXSS2KREX	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	11.1	20.0	36.0	39.6	60.0	PVC09	0.330
32	PXSS2KREX	1RA	M32	15.0	1"	25.0	1 ¼"	50	23.6	23.9	17.0	26.3	41.0	45.1	61.1	PVC10	0.590
32L	PXSS2KREX	1RA	M32	15.0	1"	25.0	1 ¼"	50	23.6	23.9	20.0	27.4	41.0	45.1	61.1	PVC10	0.590
40	PXSS2KREX	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	22.0	32.1	50.0	55.0	62.4	PVC13	0.560
50S	PXSS2KREX	1RA	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	29.5	38.2	55.0	60.5	65.2	PVC15	0.660
50	PXSS2KREX	1RA	M50	15.0	2"	26.9	2 ½"	89	41.0	41.3	35.6	44.0	60.0	66.0	67.6	PVC18	0.730
63S	PXSS2KREX	1RA	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	40.1	49.9	70.0	77.0	71.1	PVC21	1.070
63	PXSS2KREX	1RA	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	47.2	55.9	75.0	82.5	70.4	PVC23	1.060
75S	PXSS2KREX	1RA	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	52.8	61.9	80.0	88.0	75.3	PVC25	1.300
75	PXSS2KREX	1RA	M75	15.0	3"	41.5	3 ½"	140	64.3	64.2	59.1	67.9	85.0	93.5	74.9	PVC27	1.300
90	PXSS2KREX	1RA	M90	20.0	3 ½"	42.8	4"	140	75.3	75.6	66.6	79.4	108.0	118.8	94.8	PVC31	3.020
100	PXSS2KREX	1RA	M100	20.0	3 ½"	42.8	4"	200	83.6	85.9	76.0	90.9	123.0	135.3	86.3	LSF33	4.000

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32PXSS2KREX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPXSS2KREX1RA035 = Brass 1 ½" NPT, 25PXSS2KREX1RA432 = Stainless Steel ¾" NPT, 20PXSS2KREX1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

PXSS2KREXHC

RAPID Ex

PXSS2KREXHC GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE RAPIDEX BARRIER CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAID CABLES HOUSED IN FLEXIBLE HOSE

- RapidEx liquid pour sealing system reduces installation time
- Direct and remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Deluge protected
- -60˚C to +85˚C
- Globally marked, IECEx, ATEX and UKEX
- RapidEx liquid barrier resin seals around internal cable cores after removing any cable inner sheath/bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68

DELUGE PROTECTED

+85˚C ↑ -60˚C

Ex db Ex eb Ex ta Ex nR

EXPLOSIVE ATMOSPHERE RAPIDEX CABLE GLANDS

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Unarmoured
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Barrier Compound
SEALING TECHNIQUE	CMP Outer Displacement Seal and Inner RapidEx Barrier Seal
SEALING AREA(S)	RapidEx Resin Barrier and Cable Outer Sheath
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Brass, Stainless Steel, Aluminium
ARMOUR CLAMPING	Detachable Resin Tube

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

Epoxy compound version also available

Available for Group I & II use

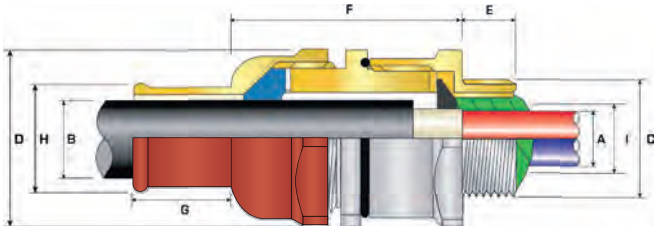
PATENT GRANTED: ES 2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153846, US 10193321, US1034078

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
EAC CERTIFICATE	Check website for latest certificate number		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172		

*Aluminium alloys are not permitted in Group I mining applications

**Where the cable is permitted by code (NEC and/or CEC)



COMBINED ORDERING REFERENCE (**BRASS METRIC)			MINIMUM ENTRY THREAD (METRIC) 'C'	MINIMUM THREAD LENGTH 'E'	DIAMETER OVER CONDUCTORS 'A'	MAX NUMBER OF CORES	OVERALL CABLE DIAMETER 'B'		NOMINAL HOSE BORE Ø 'H'	ACROSS FLATS 'D'	ACROSS CORNERS 'D'	NOMINAL * PROTRUSION LENGTH WITHOUT HOSE CONNECTION 'F'	HOSE CONNECTION LENGTH 'G'	OVERALL LENGTH 'E' + 'F' + 'G' *	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX					MIN	MAX		MAX	MAX					
20S16	PXSS2KREXHC13	1RA	M20	15.0	8.6	21	3.1	8.6	13.0	30.0	33.0	51.1	16.0	82.5	PVC06	0.220
20S16	PXSS2KREXHC16	1RA	M20	15.0	8.6	21	3.1	8.6	16.0	30.0	33.0	51.1	16.0	82.5	PVC06	0.220
20S	PXSS2KREXHC16	1RA	M20	15.0	11.7	21	6.1	11.7	16.0	30.0	33.0	49.3	16.0	82.5	PVC06	0.220
20	PXSS2KREXHC19	1RA	M20	15.0	12.6	21	6.5	14.0	19.0	30.0	33.0	50.0	20.0	86.9	PVC06	0.220
25	PXSS2KREXHC25	1RA	M25	15.0	17.5	30	11.1	20.0	25.0	36.0	39.6	55.3	27.0	98.8	PVC09	0.360
32	PXSS2KREXHC32	1RA	M32	15.0	23.6	50	17.0	26.3	32.0	41.0	45.1	55.6	33.0	105.2	PVC10	0.450
40	PXSS2KREXHC38	1RA	M40	15.0	30.0	59	22.0	32.1	38.0	50.0	55.0	56.3	41.0	114.1	PVC13	0.650
50S	PXSS2KREXHC51	1RA	M50	15.0	36.6	89	29.5	38.2	51.0	60.0	66.0	57.3	54.0	128.5	PVC18	1.070
50	PXSS2KREXHC51	1RA	M50	15.0	41.0	89	35.6	44.0	51.0	60.0	66.0	62.2	54.0	132.1	PVC18	0.950
63S	PXSS2KREXHC63	1RA	M63	15.0	47.9	115	40.1	49.9	63.0	70.0	77.0	63.0	70.0	150.1	PVC21	1.730
63	PXSS2KREXHC63	1RA	M63	15.0	53.7	115	47.2	55.9	63.0	75.0	82.5	65.0	70.0	152.6	PVC23	1.430
75S	PXSS2KREXHC76	1RA	M75	15.0	59.9	115	52.8	61.9	76.0	80.4	88.4	65.6	91.5	174.6	PVC26	2.500
75	PXSS2KREXHC76	1RA	M75	15.0	64.3	140	59.1	67.9	76.0	85.0	93.5	63.7	91.5	177.4	PVC27	1.960

*The protrusion and overall lengths stated will vary after installation, depending upon the overall cable diameter.

**For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

Examples: 50SPXSS2KREXHC511RA5 = Nickel Plated Brass 50mm, 25PXSS2KREXHC251RA4 = Stainless Steel M25

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

PXRCREX

RAPID Ex

PXRCREX GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE RAPIDEX BARRIER CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAID CABLES HOUSED IN CONDUIT

- RapidEx liquid pour sealing system reduces installation time
- Designed for rigid and flexible conduits
- Easy install running coupler design
- Compound barrier type flameproof seal
- -60˚C to +85˚C
- Internationally marked, UKEX, IECEx and ATEX
- RapidEx liquid barrier resin seals around internal cable cores after removing any cable inner sheath/bedding; completely eliminating any risk of coldflow

IP66

+85˚C
-60˚C

Ex db | Ex eb | Ex ta | Ex nR

PXRCREX

EXPLOSIVE ATMOSPHERE RAPIDEX CABLE GLANDS

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66

CABLE TYPE	Unarmoured
SEAL MATERIAL	RapidEx Barrier Compound
SEALING AREA(S)	Inner RapidEx Barrier Seal
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel

* Mechanical and Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
Alternative conduit sizes available upon request.
See 'thread option ordering examples' table below for typical NPT & Metric thread ordering references

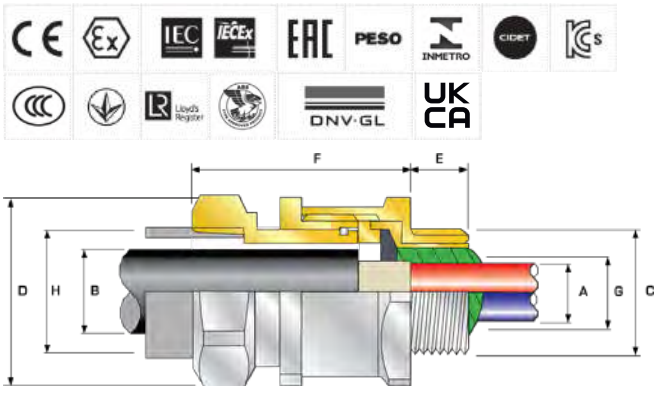
THREAD OPTION ORDERING EXAMPLES		
ORDERING REFERENCE	MALE THREAD	FEMALE THREAD
20PXRCREX1RA	M20	M20
20PXRCREX1RA0**31**	**M20**	**½" NPT**
20PXRCREX1RA0**3131**	**½" NPT**	**½" NPT**
20PXRCREX1RA0**3102**†	**½" NPT**	**M20**

Refer to 'How to order' page for complete list of ordering codes.
† For Metric female threads please insert '0' before thread size code
e.g. 32XRCREX1RA53405 (1 ¼" NPT Male x M40 Female)

PATENT GRANTED: ES 2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153846, US 10193321, US1034078

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X CML 18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex II 3G, Ex nR IIC Gc	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
EAC CERTIFICATE	Check website for latest certificate number	UkrSEPRO	СЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172 DNV: TAE000000Y ABS: 20-LD1948801-PDA		
KCs KOSHA CERTIFICATE	19-AV4B0-0474X ; 19-AV4B0-0475X ; 19-AV4B0-0475X		
MARINE APPROVALS	LRS: 01/00172 DNV: TAE000000Y ABS: 20-LD1948801-PDA		



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					MAX NUMBER OF CORES	STANDARD FEMALE CONNECTION THREAD 'H'	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'	ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION										
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT			MAX	MAX	MAX	MAX	MAX			
20	PXRCREX	1RA	M20	15.0	½"	19.9	¾"	21	M20	12.6	12.9	13.9	30.0	33.0	45.9	PVC06	0.170
25	PXRCREX	1RA	M25	15.0	¾"	20.2	1"	30	M25	17.5	17.9	19.9	36.0	39.6	48.6	PVC09	0.330
32	PXRCREX	1RA	M32	15.0	1"	25.0	1 ¼"	50	M32	23.6	23.9	26.2	41.0	45.1	53.0	PVC10	0.320
40	PXRCREX	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	M40	30.0	30.3	32.3	50.0	55.0	50.5	PVC13	0.420
50S	PXRCREX	1RA	M50	15.0	1 ½"	26.1	2"	89	M50	36.6	36.9	38.9	55.0	60.5	59.6	PVC15	0.570
50	PXRCREX	1RA	M50	15.0	2"	26.9	2 ½"	115	M50	41.0	41.3	44.2	60.0	66.0	64.5	PVC18	0.610
63S	PXRCREX	1RA	M63	15.0	2"	26.9	2 ½"	115	M63	47.9	48.4	50.0	70.1	77.1	63.5	PVC21	0.940
63	PXRCREX	1RA	M63	15.0	2 ½"	39.9	3"	115	M63	53.7	54.0	56.0	75.0	82.5	64.6	PVC23	0.890
75S	PXRCREX	1RA	M75	15.0	2 ½"	39.9	3"	140	M75	59.9	60.2	62.4	84.0	92.4	72.9	PVC26	1.290
75	PXRCREX	1RA	M75	15.0	3"	41.5	3 ½"	140	M75	64.3	64.2	68.1	85.0	93.5	72.5	PVC26	1.160
90	PXRCREX	1RA	M90	20.0	3 ½"	42.8	4"	140	M90	75.3	75.6	80.1	108.0	118.8	89.5	PVC31	2.630

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT male and / or female options please add the following digits to the material suffix (See Thread Options table above) ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")
When NPT male & Metric female product option is required, please add the following digits to the material and NPT male suffix (See Thread Options table above) ; M20 = 02, M25 = 03, M32 = 04, M40 = 05, M50 = 06, M63 = 07, M75 = 08, M90 = 09 (Brass requires prefix "0")

Examples: 32PXRCREX1RA533 = Nickel Plated Brass M32 male x 1" NPT female, 20S16PXRCREX1RA031 = Brass M20 male x ½" NPT female, 25PXRCREX1RA43203 = Stainless Steel ¾" NPT male x M25 female, 20PXRCREX1RA5 = Nickel Plated Brass M20 male and female

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

EXPLOSIVE ATMOSPHERE COMPOUND BARRIER CABLE GLANDS

Barrier cable glands may either be required to prevent gas, vapour or fluid from migrating through a cable, or to prevent flame transmission through the cable.

CMP's two-part barrier seal, traditionally hand mixed solution provides a compound barrier seal around the cable conductors. CMP's cable glands often have an additional sealing ring providing an environmental seal on the cable outer sheath.

The compound barrier seal is made on site by the technician completing the installation and is used primarily in explosive atmospheres, as required by the installation code.

The cable glands in the following section are shown in nickel plated brass. Alternative materials are available.

PX2K

PX2K GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct and remote installation
- Compound barrier type flameproof seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- -60˚C to +85˚C
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- Compound barrier seals around internal cable cores after removing any inner cable sheath/bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68

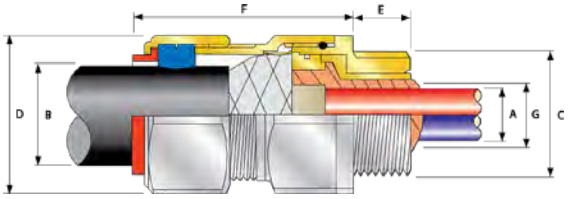
DELUGE PROTECTED | EMC | +85˚C ↑ -60˚C

Ex db | Ex eb | Ex ta | Ex nR

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Wire Braid Armour (e.g. SWB), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Strip Armour (e.g. ASA)***
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
SEALING TECHNIQUE	CMP Outer Seal
SEALING AREA(S)	Inner Compound Barrier and Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
ARMOUR CLAMPING	Detachable Compound Tube / Cone & AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 2, Groups F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc		
cCSA CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 2, Groups F and G; Class III, Div 2; Type 4X; Oil Resistance II; Ex nR IIC Gc		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94, CAN/CSA-C22.2 No 60079-1,7,15,31, CAN/CSA-E61241-1-1, ANSI/UL 514B, 50, 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
cULus CERTIFICATE (20S16 - 90)	E161256, E201187		
CODE OF PROTECTION**	Class I Div 1 and 2, Groups A,B,C, and D; Class II Div 1 and 2, Groups F, and G		
COMPLIANCE STANDARDS	UL 2225, CSA C22.2 No 174, UL 514B, CSA C22.2 No 18, CSA C22.2 No 30		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	Check website for latest certificate number		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
KCs CERTIFICATE	14_GA4BO_0252X		
SANS	IA MS-XPL21962 21.0305X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION						GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MAX	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2K	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	62.0	PVC06	0.24
20S	PX2K	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	PVC06	0.23
20	PX2K	1RA	M20	15.0	½"	19.9	¾"	21	12.6	12.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	PVC06	0.24
25S	PX2K	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
25	PX2K	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
32	PX2K	1RA	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	PVC11	0.57
40	PX2K	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	PVC15	0.80
50S	PX2K	1RA	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	PVC18	0.90
50	PX2K	1RA	M50	15.0	2"	26.9	2 ½"	89	41.0	41.3	40.4	53.0	0.6	1.6	2.0	2.5	70.0	77.0	77.0	PVC21	1.19
63S	PX2K	1RA	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	79.7	PVC23	1.39
63	PX2K	1RA	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.3	PVC25	1.41
75S	PX2K	1RA	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	86.8	PVC28	2.09
75	PX2K	1RA	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.3	PVC30	2.54
90	PX2K	1RA	M90	20.0	3 ½"	42.8	4"	140	75.3	75.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.1	PVC32	3.71
100	PX2K	1RA	M100	20.0	3 ½"	42.8	4"	200	83.6	85.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	LSF33	4.31

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32PX2K1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2K1RA035 = Brass 1 ½" NPT, 25PX2K1RA432 = Stainless Steel ¾" NPT, 20PX2K1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

PX2KX

PX2KX GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR ALL TYPES OF BRAIDED & TAPE ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct and remote installation
- Compound barrier type flameproof seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- -60˚C to +85˚C
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- Compound barrier seals around internal cable cores after removing any inner cable sheath/bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

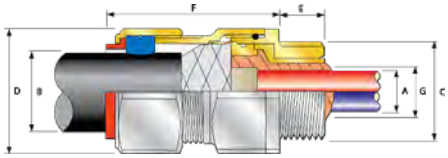
DELUGE PROTECTED EMC +85˚C -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Armoured and Jacketed***
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
SEALING TECHNIQUE	Inner Compound Barrier and Outer Sheath
SEALING AREA(S)	CMP Outer Load Retention Seal
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Brass, Stainless Steel, Aluminium
ARMOUR CLAMPING	Detachable Compound Tube / Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc; Class I, Zone 20, AEx ta IIIC Da		
cCSA CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94, CAN/CSA-C22.2 No 60079-1,7,15,31, CAN/CSA-E61241-1-1, ANSI/UL 514B, 50, 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
cULus CERTIFICATE (20S16 -90)	E201187, E256367		
CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 1 and 2, Groups E,F, and G; Class I, Zone 1, AEx d IIC		
COMPLIANCE STANDARDS	UL 2225, CSA C22.2 No 174, UL 514B, CSA C22.2 No 18, CSA C22.2 No 30, UL50		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	Check website for latest certificate number		
KCs CERTFICATE	14_GA4BO_0252X		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications.
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE† GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION												
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MAX	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KX	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	6.1	13.1	0.3	1.0	30.5	33.6	62.0	PVC06	0.24
20S	PX2KX	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	9.5	15.9	0.3	1.0	30.5	33.6	62.0	PVC06	0.23
20	PX2KX	1RA	M20	15.0	½"	19.9	¾"	21	12.6	12.9	12.5	20.9	0.4	1.0	30.5	33.6	63.0	PVC06	0.24
25S	PX2KX	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	14.0	22.0	0.4	1.2	37.5	41.3	69.5	PVC09	0.37
25	PX2KX	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	18.2	26.2	0.4	1.2	37.5	41.3	69.5	PVC09	0.37
32	PX2KX	1RA	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	23.7	33.9	0.4	1.2	46.0	50.6	75.0	PVC11	0.57
40	PX2KX	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	0.4	1.6	55.0	60.5	75.0	PVC15	0.80
50S	PX2KX	1RA	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	0.4	1.6	60.0	66.0	77.0	PVC18	0.90
50	PX2KX	1RA	M50	15.0	2"	26.9	2 ½"	115	41.0	41.3	40.4	53.0	0.6	1.6	70.0	77.0	77.0	PVC21	1.19
63S	PX2KX	1RA	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	0.6	1.6	75.0	82.5	79.7	PVC23	1.39
63	PX2KX	1RA	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	0.6	1.6	80.0	88.0	80.3	PVC25	1.41
75S	PX2KX	1RA	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	0.6	1.6	90.0	99.0	86.8	PVC28	2.09
75	PX2KX	1RA	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	0.6	1.6	100.0	110.0	88.3	PVC30	2.54
90	PX2KX	1RA	M90	20.0	3 ½"	42.8	4"	140	75.3	75.6	76.2	90.3	0.8	1.6	115.0	126.5	102.1	PVC32	3.71
100	PX2KX	1RA	M100	20.0	3 ½"	42.8	4"	200	83.6	85.9	86.1	101.4	0.8	1.6	127.0	139.7	114.0	LSF33	4.31

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38,3 ½" = 39, 4" = 310 (Brass requires prefix "0")
Examples: 32PX2KX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KX1RA035 = Brass 1 ½" NPT, 25PX2KX1RA432 = Stainless Steel ¾" NPT, 20PX2KX1RA5 = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

PX2KW

PX2KW GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct and remote installation
- Compound barrier type flameproof seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- -60˚C to +85˚C
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- Compound barrier seals around internal cable cores after removing any inner cable sheath/bedding; completely eliminating any risk of coldflow

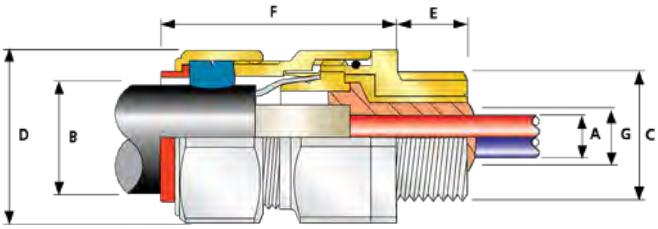
IP66 IP67 IP68

DELUGE PROTECTED | EMC | +85˚C ↑ -60˚C

Ex db | Ex eb | Ex ta | Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B
INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)***
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
SEALING TECHNIQUE	CMP Outer Seal
SEALING AREA(S)	Inner Compound Barrier and Cable Outer Sheath
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Brass, Stainless Steel, Aluminium
ARMOUR CLAMPING	Detachable Compound Tube / Cone and AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 2, Groups F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc		
cCSA CODE OF PROTECTION**	Class I, Div 2, Groups A, B, C, and D; Class II, Div 2, Groups F and G; Class III, Div 2; Type 4X; Oil Resistance II; Ex nR IIC Gc		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94, CAN/CSA-C22.2 No 60079-1,7,15,31, CAN/CSA-E61241-1-1, ANSI/UL 514B, 50, 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
cULus CERTIFICATE (20S16 - 90)	E161256		
CODE OF PROTECTION**	Class I Div 1 and 2, Groups A,B,C, and D; Class II Div 1 and 2, Groups F, and G		
COMPLIANCE STANDARDS	UL 2225, CSA C22.2 No 174, UL 514B, CSA C22.2 No 18, CSA C22.2 No 30		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	Check website for latest certificate number		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
KCs CERTIFICATE	14_GA4BO_0252X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION												
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MAX	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KW	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	6.1	13.1	0.8	1.25	30.5	33.6	62.0	PVC06	0.24
20S	PX2KW	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	9.5	15.9	0.8	1.25	30.5	33.6	62.0	PVC06	0.23
20	PX2KW	1RA	M20	15.0	½"	19.9	¾"	21	12.6	12.9	12.5	20.9	0.8	1.25	30.5	33.6	63.0	PVC06	0.24
25S	PX2KW	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	14.0	22.0	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
25	PX2KW	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	18.2	26.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
32	PX2KW	1RA	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	23.7	33.9	1.6	2.0	46.0	50.6	75.0	PVC11	0.57
40	PX2KW	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	1.6	2.0	55.0	60.5	75.0	PVC15	0.80
50S	PX2KW	1RA	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	2.0	2.5	60.0	66.0	77.0	PVC18	0.90
50	PX2KW	1RA	M50	15.0	2"	26.9	2 ½"	89	41.0	41.3	40.4	53.0	2.0	2.5	70.0	77.0	77.0	PVC21	1.19
63S	PX2KW	1RA	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	2.0	2.5	75.0	82.5	79.7	PVC23	1.39
63	PX2KW	1RA	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	2.0	2.5	80.0	88.0	80.3	PVC25	1.41
75S	PX2KW	1RA	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	2.0	2.5	90.0	99.0	86.8	PVC28	2.09
75	PX2KW	1RA	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	2.5	3.0	100.0	110.0	88.3	PVC30	2.54
90	PX2KW	1RA	M90	20.0	3 ½"	42.8	4"	140	75.3	75.6	76.2	90.3	3.15	4.0	115.0	126.5	102.1	PVC32	3.71
100	PX2KW	1RA	M100	20.0	3 ½"	42.8	4"	200	83.6	85.9	86.1	101.4	3.15	4.0	127.0	139.7	114.0	LSF33	4.31

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32PX2KW1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KW1RA035 = Brass 1 ½" NPT, 25PX2KW1RA432 = Stainless Steel ¾" NPT, 20PX2KW1RA5 = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

PX2KPB

PX2KPB INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR ALL TYPES OF LEAD SHEATHED ARMOURED CABLES

- Effectively earths / grounds lead sheathed cables
- Metal-to-metal armour clamping
- Direct and remote installation
- Compound barrier type flameproof seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- -60˚C to +85˚C
- Internationally marked, UKEX, IECEx and ATEX
- Superior EMC performance
- Compound barrier seals around internal cable cores after removing any inner cable sheath/bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68

DELUGE PROTECTED | EMC | +85˚C ↑ -60˚C

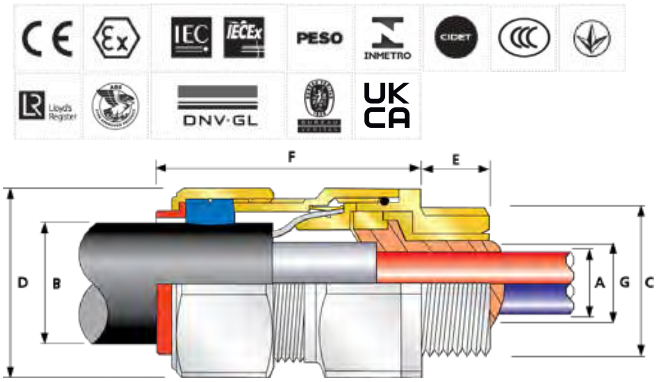
Ex db | Ex eb | Ex ta | Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91

CABLE TYPE	Lead Sheathed and Single Wire Armour (LC/SWA), Lead Sheathed and Aluminium Wire Armour (LC/AWA), Lead Sheathed and Wire Braid Armour (LC/SWB), Lead Sheathed and Pliable Wire Armour (LC/PWA), Lead Sheathed and Steel Tape Armour (LC/STA), Lead Sheathed and Aluminium Strip Armour (LC/ASA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
SEALING TECHNIQUE	CMP Outer Seal
SEALING AREA(S)	Inner Compound Barrier and Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
ARMOUR CLAMPING	Detachable Compound Tube / Cone & AnyWay Universal Clamping Ring

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
UkrSEPRO CERTIFICATE	СЦ 19.0371X		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	LEAD SHEATH DIAMETER 'G'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION							GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KPB	1RA	M20	15.0	½"	19.9	¾"	21	7.8	3.1	7.8	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	62.0	PVC06	0.25
20S	PX2KPB	1RA	M20	15.0	½"	19.9	¾"	21	11.0	6.1	11.0	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	PVC06	0.23
20	PX2KPB	1RA	M20	15.0	½"	19.9	¾"	21	12.6	6.5	13.4	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	PVC06	0.24
25S	PX2KPB	1RA	M25	15.0	¾"	20.2	1"	30	17.5	11.1	19.3	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
25	PX2KPB	1RA	M25	15.0	¾"	20.2	1"	30	17.5	11.1	19.3	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.37
32	PX2KPB	1RA	M32	15.0	1"	25.0	1 ¼"	38	23.6	17.0	25.5	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	PVC11	0.57
40	PX2KPB	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	22.0	31.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	PVC15	0.80
50S	PX2KPB	1RA	M50	15.0	1 ½"	26.1	2"	89	36.6	29.5	37.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	PVC18	0.90
50	PX2KPB	1RA	M50	15.0	2"	26.9	2 ½"	89	41.0	35.6	42.6	40.4	53.0	0.6	1.6	2.0	2.5	70.0	77.0	77.0	PVC21	1.19
63S	PX2KPB	1RA	M63	15.0	2"	26.9	2 ½"	115	47.9	40.1	48.5	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	79.7	PVC23	1.41
63	PX2KPB	1RA	M63	15.0	2 ½"	39.9	3"	115	53.7	47.2	54.2	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.3	PVC25	1.44
75S	PX2KPB	1RA	M75	15.0	2 ½"	39.9	3"	140	59.9	52.8	60.2	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	86.8	PVC28	2.13
75	PX2KPB	1RA	M75	15.0	3"	41.5	3 ½"	140	64.2	59.1	65.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.3	PVC30	2.57
90	PX2KPB	1RA	M90	20.0	3 ½"	42.8	4"	140	75.3	66.6	77.1	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.1	PVC32	3.71
100	PX2KPB	1RA	M100	20.0	3 ½"	42.8	4"	200	83.6	76.0	88.1	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	LSF33	4.87

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32PX2KPB1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KPB1RA035 = Brass 1 ½" NPT, 25PX2KPB1RA432 = Stainless Steel ¾" NPT, 20PX2KPB1RA5 = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated

PXSS2K

PXSS2K DOUBLE SEAL, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- Direct and remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Compound barrier type flameproof seal
- Deluge protected
- -60˚C to +85˚C
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Compound barrier seals around internal cable cores after removing any inner cable sheath/bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

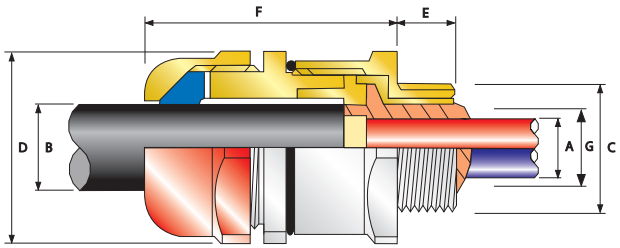
DELUGE PROTECTED

+85˚C ↑ -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Unarmoured***
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Inner Compound Barrier and Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIc Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc, Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb,* Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE	2288626		
CSAus CODE OF PROTECTION***	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc; Class I, Zone 20, AEx ta IIIC Da		
cCSA CODE OF PROTECTION***	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 1 and 2, Groups E, F and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94; CAN/CSA-60079-0,1,7,15,31; CAN/CSA-E61241-1-1; ANSI/UL 514B, ANSI/UL 50, ANSI/UL 2225, UL60079-0, 1, 7, 15		
cULus CERTIFICATE (20S-90)	E201187, E161256		
CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups F and G		
UL CERTIFICATE (20S-90)	E253914		
CODE OF PROTECTION**	Class I, Zone 1, AEx d IIC, AEx e II		
COMPLIANCE STANDARDS	UL 2225, UL 514B, UL 60079-0, UL 60079-7, CSA C22.2 No. 174		
KCs KOSHA CERTIFICATE	14-GA4BO-0252X	ECAS CERTIFICATE	20-02-05624
EAC CERTIFICATE	Check website for latest certificate number	UkrSEPRO CERTIFICATE	СЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
SANS	IA MS-XPL21962 21.0305X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION										
SIZE	TYPE	ORDERING SUFFIX	METRIC	MIN THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MAX	MAX	MIN	MAX	MAX	MAX			
20S16	PXSS2K	1RA	M20	15.0	½"	19.9	¾"	21	8.6	8.6	3.1	8.6	30.0	33.0	53.1	PVC06	0.20
20S	PXSS2K	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	6.1	11.7	30.0	33.0	53.1	PVC06	0.20
20	PXSS2K	1RA	M20	15.0	½"	19.9	¾"	21	12.6	12.9	6.5	14.0	30.0	33.0	54.2	PVC06	0.20
20L	PXSS2K	1RA	M20	15.0	½"	19.9	¾"	21	12.6	12.9	10.0	15.9	30.0	33.0	54.2	PVC06	0.20
25	PXSS2K	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	11.1	20.0	36.0	39.6	60.0	PVC09	0.33
32	PXSS2K	1RA	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	17.0	26.3	41.0	45.1	61.1	PVC10	0.59
32L	PXSS2K	1RA	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	20.0	27.4	41.0	45.1	61.1	PVC10	0.59
40	PXSS2K	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	22.0	32.1	50.0	55.0	62.4	PVC13	0.56
50S	PXSS2K	1RA	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	29.5	38.2	55.0	60.5	65.2	PVC15	0.66
50	PXSS2K	1RA	M50	15.0	2"	26.9	2 ½"	115	41.0	41.3	35.6	44.0	60.0	66.0	67.6	PVC18	0.73
63S	PXSS2K	1RA	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	40.1	49.9	70.0	77.0	71.1	PVC21	1.07
63	PXSS2K	1RA	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	47.2	55.9	75.0	82.5	70.4	PVC23	1.06
75S	PXSS2K	1RA	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	52.8	61.9	80.0	88.0	75.3	PVC25	1.30
75	PXSS2K	1RA	M75	15.0	3"	41.5	3 ½"	140	64.3	64.2	59.1	67.9	85.0	93.5	74.9	PVC27	1.30
90	PXSS2K	1RA	M90	20.0	3 ½"	42.8	4"	140	75.3	75.6	66.6	79.4	108.0	118.8	94.8	PVC31	3.02
100	PXSS2K	1RA	M100	20.0	3 ½"	42.8	4"	200	83.6	85.9	76.0	90.9	123.0	135.3	86.3	LSF33	4.00

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32PXSS2K1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPXSS2K1RA035 = Brass 1 ½" NPT, 25PXSS2K1RA432 = Stainless Steel ¾" NPT, 20PXSS2K1RA5 = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

PXRC

PXRC INTERNATIONALLY APPROVED, RIGID & FLEXIBLE CONDUIT EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR ALL TYPES OF UNARMOURED CABLES

- Designed for rigid and flexible conduits
- Easy install running coupler design
- Compound barrier type flameproof seal
- -60˚C to +85˚C
- Internationally marked, UKEX, IECEx and ATEX
- Compound barrier seals around internal cable cores after removing any inner cable sheath/bedding; completely eliminating any risk of coldflow

IP66

+85˚C
-60˚C

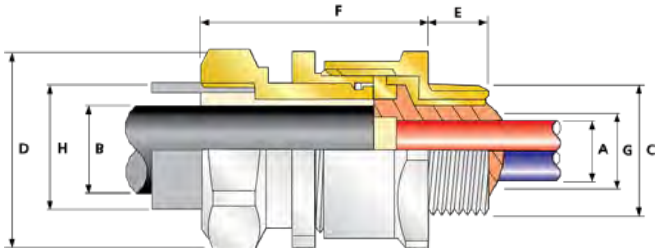
Ex db | Ex eb | Ex ta | Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
CABLE TYPE	Unarmoured
SEAL MATERIAL	Epoxy Barrier Compound
SEALING AREA(S)	Inner Compound Barrier
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
Alternative conduit sizes available upon request.
See 'thread option ordering examples' table below for typical NPT and Metric thread ordering references.

THREAD OPTION ORDERING EXAMPLES		
ORDERING REFERENCE	MALE THREAD	FEMALE THREAD
20PXRC1RA	M20	M20
20PXRC1RA0**31**	**M20**	**½" NPT**
20PXRC1RA0**3131**	**½" NPT**	**½" NPT**
20PXRC1RA0**3102**†	**½" NPT**	**M20**

Refer to 'How to order' page for complete list of ordering codes.
† For Metric female threads please insert '**0**' before thread size code
e.g. 32PXRC1RA534**0**5 (1 ¼" NPT Male x M40 Female)



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15, 31
COMPLIANCE STANDARDS	EN 60079-0,1,7,15, 31	ECAS CERTIFICATE	20-02-05624
KCs KOSHA CERTIFICATE	14-GA4BO-0252X	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	Check website for latest certificate number	INMETRO APPROVAL	TÜV 12.2073X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190		
SANS	IA MS-XPL21962 21.0305X		
MARINE APPROVALS	LRS: 01/00172 DNV: TAE000000Y ABS: 20-LD1948801-PDA		

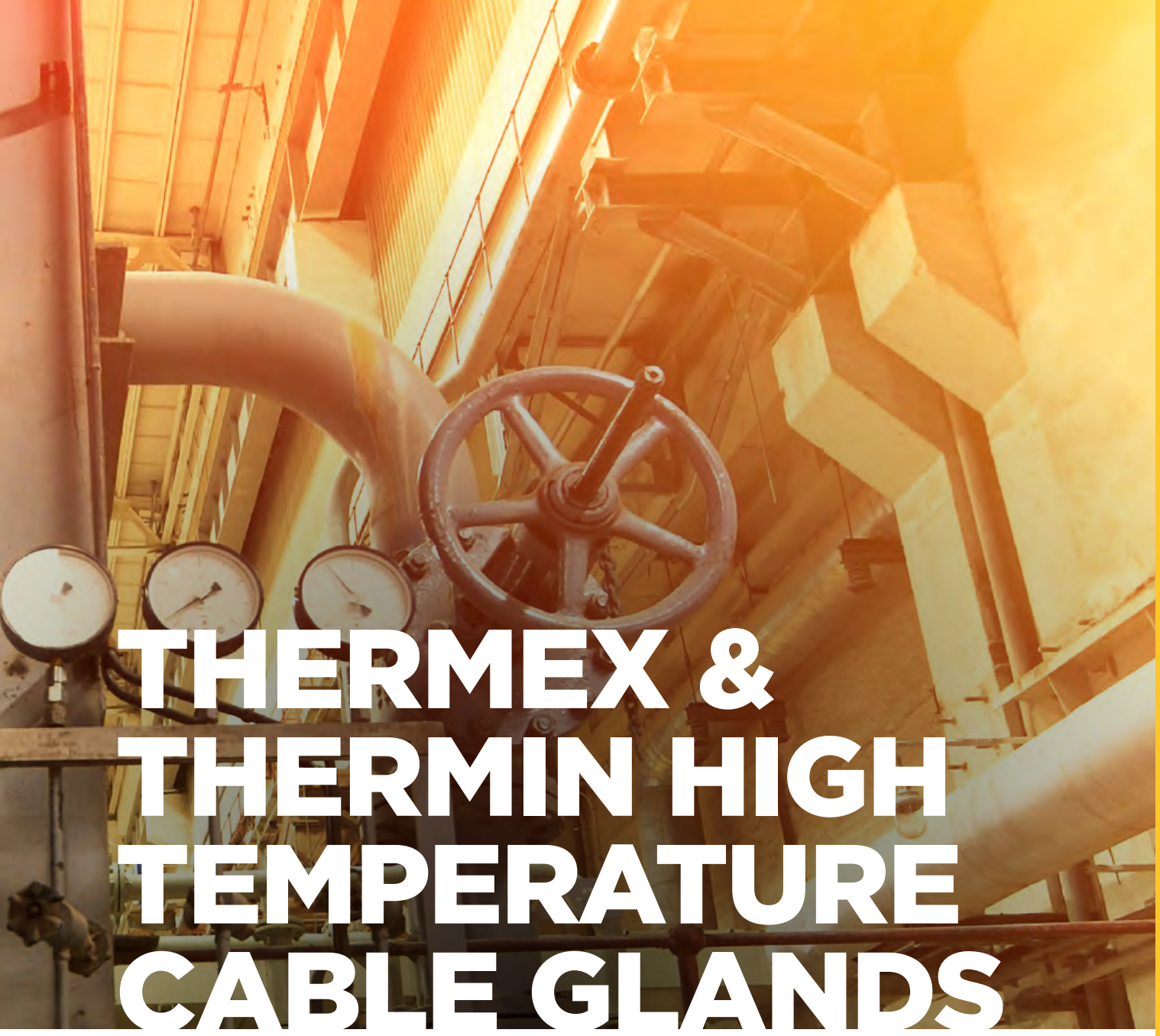
COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	FEMALE CONNECTION THREAD 'H'	FEMALE CONNECTION THREAD (NPT) 'H'	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'	ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION										
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX			MAX	MAX	MAX	MAX	MAX		
20	PXRC	1RA	M20	15.0	½"	19.9	¾"	21	M20	½"	12.6	12.9	13.9	30.0	33.0	45.9	0.17
25	PXRC	1RA	M25	15.0	¾"	20.2	1"	30	M25	¾"	17.5	17.9	19.9	36.0	39.6	48.6	0.33
32	PXRC	1RA	M32	15.0	1"	25.0	1 ¼"	38	M32	1"	23.6	23.9	26.2	41.0	45.1	53.0	0.32
40	PXRC	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	M40	1 ¼"	30.0	30.3	32.3	50.0	55.0	50.5	0.41
50S	PXRC	1RA	M50	15.0	1 ½"	26.1	2"	89	M50	1 ½"	36.6	36.9	38.9	55.0	60.5	59.6	0.57
50	PXRC	1RA	M50	15.0	2"	26.9	2 ½"	115	M50	2"	41.0	41.3	44.2	60.0	66.0	64.5	0.61
63S	PXRC	1RA	M63	15.0	2"	26.9	2 ½"	115	M63	2"	47.9	48.4	50.0	70.1	77.1	63.5	0.94
63	PXRC	1RA	M63	15.0	2 ½"	39.9	3"	115	M63	2 ½"	53.7	54.0	56.0	75.0	82.5	64.6	0.89
75S	PXRC	1RA	M75	15.0	2 ½"	39.9	3"	140	M75	2 ½"	59.9	60.2	62.4	84.0	92.4	72.9	1.29
75	PXRC	1RA	M75	15.0	3"	41.5	3 ½"	140	M75	3"	64.3	64.2	68.1	85.0	93.5	72.5	1.16
90	PXRC	1RA	M90	20.0	3 ½"	42.8	4"	140	M90	3 ½"	75.3	75.6	80.1	108.0	118.8	89.5	2.63

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT male and / or female options please add the following digits to the material suffix (See Thread Options table above) ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")
When NPT male & Metric female product option is required, please add the following digits to the material and NPT male suffix (See Thread Options table above) ; M20 = 01, M25 = 02, M32 = 03, M40 = 04, M50 = 05, M63 = 06, M75 = 07, M90 = 08 (Brass requires prefix "0")

Examples: 32PXRC1RA533 = Nickel Plated Brass M32 male x 1" NPT female, 20S16PXRC1RA031 = Brass M20 male x ½" NPT female, 25PXRC1RA43203 = Stainless Steel ¾" NPT male x M25 female, 20PXRC1RA5 = Nickel Plated Brass M20 male and female

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.



THERMEX & THERMIN HIGH TEMPERATURE CABLE GLANDS

CMP Products' range of extreme high temperature cable glands are available for industrial and explosive atmospheres.

THERMIN

Industrial cable glands rated up to +200°C

THERMEX

Explosive atmosphere cable glands rated up to +200°C

Given the level of experience gained in this field, CMP is able to provide a high degree of technical support and advice on the selection and use of cable glands in industrial and explosive atmosphere applications.

Being fully certified to EN/IEC 60079, these high temperature glands offer an alternative temperature range, retaining advanced product features.

Additional cable gland types are available for high temperature applications, please contact CMP.

The cable glands in the following section are shown in nickel plated brass. Alternative materials are available.

ThermIn ThermEx

A2HT

A2HT HIGH TEMPERATURE, SINGLE SEAL INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- -60˚C to 180˚C high temperature ThermIn seals
- High quality durable materials
- Robust, heavy duty design
- Displacement type seal
- Deluge protected

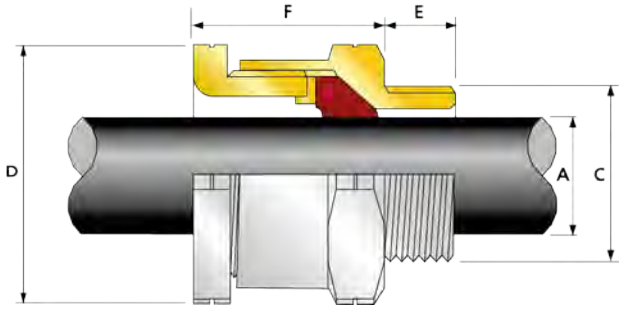
IP66 IP67 IP68

DELUGE PROTECTED

+180˚C ↑ -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Unarmoured & Braided
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CONTINUOUS OPERATING TEMPERATURE	-60˚C to +180˚C

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



CE

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					OVERALL CABLE DIAMETER		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'
			STANDARD				OPTION					
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX	MAX
16	A2HT	1RA	M16	10.0	-	-	-	3.2	8.0	24.0	26.4	34.9
16P	A2HT	1RA	M16	10.0	-	-	-	3.2	8.0	22.0	24.2	34.7
20S16	A2HT	1RA	M20	10.0	½"	19.9	¾"	3.2	8.0	24.0	26.4	32.9
20S16P	A2HT	1RA	M20	10.0	-	-	-	3.2	8.0	22.0	24.2	32.4
20S	A2HT	1RA	M20	10.0	½"	19.9	¾"	6.5	11.2	24.0	26.4	34.9
20SP	A2HT	1RA	M20	10.0	-	-	-	6.5	11.2	22.0	24.2	34.4
20	A2HT	1RA	M20	10.0	½"	19.9	¾"	7.0	13.5	27.0	29.7	36.8
20P	A2HT	1RA	M20	10.0	-	-	-	7.0	13.5	24.0	26.4	41.1
25	A2HT	1RA	M25	10.0	¾"	20.2	1"	11.5	19.5	36.0	39.6	43.1
25P	A2HT	1RA	M25	10.0	-	-	-	11.5	19.5	32.0	35.2	49.4
32	A2HT	1RA	M32	10.0	1"	25.0	1 ¼"	19.0	25.5	41.0	45.1	41.5
40	A2HT	1RA	M40	15.0	1 ¼"	25.6	1 ½"	25.0	32.2	50.0	55.0	39.1
50S	A2HT	1RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	41.4
50	A2HT	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	45.8
63S	A2HT	1RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	43.3
63	A2HT	1RA	M63	15.0	2 ½"	39.9	3"	48.2	54.9	75.0	82.5	43.6
75S	A2HT	1RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	45.4

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2HT1RA534 = Nickel Plated Brass 1¼" NPT, 50SA2HT1RA035 = Brass 1½" NPT, 25A2HT1RA432 = Stainless Steel ¾" NPT, 20A2HT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

E1UHT

ThermIn

E1UHT HIGH TEMPERATURE, DOUBLE SEAL INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

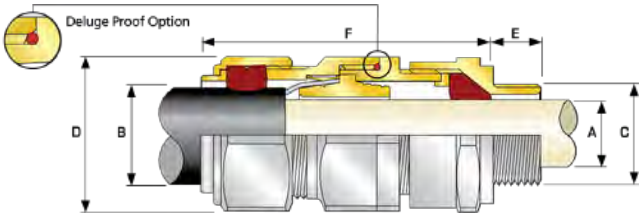
- -20˚C to 200˚C high temperature ThermIn seals
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Deluge protection option
- Superior EMC performance

IP66 IP67 IP68 EMC +200˚C -20˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)

CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour, Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Armoured & Jacketed
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium
ARMOUR CLAMPING	Reversible Armour Cone & AnyWay Universal Clamping Ring
CONTINUOUS OPERATING TEMPERATURE	-20˚C to +200˚C

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



CE

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs)
			STANDARD				OPTION					GROOVE CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E1UHT	1RA	M20	10.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	72.5	PVC04	0.163
20S	E1UHT	1RA	M20	10.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	70.0	PVC04	0.150
20	E1UHT	1RA	M20	10.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	73.0	PVC06	0.200
25S	E1UHT	1RA	M25	10.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.330
25	E1UHT	1RA	M25	10.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.330
32	E1UHT	1RA	M32	10.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	86.0	PVC11	0.430
40	E1UHT	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	90.0	PVC15	0.620
50S	E1UHT	1RA	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	91.0	PVC18	0.750
50	E1UHT	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	95.0	PVC21	0.950
63S	E1UHT	1RA	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	102.0	PVC23	1.340
63	E1UHT	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	104.0	PVC25	1.340
75S	E1UHT	1RA	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	115.0	PVC28	2.110
75	E1UHT	1RA	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	117.0	PVC30	2.420
90	E1UHT	1RA	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	114.3	125.4	147.0	PVC32	4.210
100	E1UHT	1RA	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	123.0	135.3	140.0	LSF33	4.450
115	E1UHT	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	162.0	LSF34	6.190
130	E1UHT	1RA	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	152.4	160.6	174.0	LSF35	8.340

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1UHT1RA534 = Nickel Plated Brass 1¼" NPT, 50SE1UHT1RA035 = Brass 1½" NPT, 25E1UHT1RA432 = 20E1UHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

CWHT

CWHT HIGH TEMPERATURE, SINGLE SEAL INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF STEEL & ALUMINIUM WIRE ARMOURED CABLES

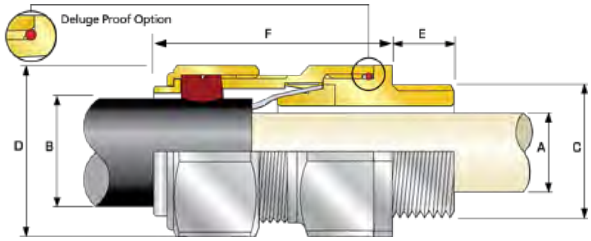
- -20˚C to 200˚C high temperature ThermIn seals
- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Controlled outer 'load retention' seal
- Deluge protection option
- Superior EMC performance

IP66

EMC +200˚C -20˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring
CABLE GLAND KITS AVAILABLE	Cable Gland kit for use with all types of SWA cable including 2 Brass Cable Glands, 2 Steel Locknuts, 2 Brass Earth Tags and 2 PVC Shrouds for sizes up to and including 32mm. For sizes 40mm and above each kit includes 1 of each component.
CONTINUOUS OPERATING TEMPERATURE	-20˚C to +200˚C

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
Deluge Proof option available (CWDHT)



CE

COMBINED ORDERING REFERENCE (*BRASS METRIC)			ENTRY THREAD 'C'	THREAD LENGTH (METRIC) 'E'	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs)
SIZE	TYPE	ORDERING SUFFIX			MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	CWHT	1RA	M20	10.0	8.7	6.1	13.1	0.8	1.25	24.0	26.4	48.0	PVC04	0.100
20S	CWHT	1RA	M20	10.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	PVC04	0.100
20	CWHT	1RA	M20	10.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	PVC06	0.147
25S	CWHT	1RA	M25	10.0	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	PVC09	0.224
25	CWHT	1RA	M25	10.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	PVC09	0.221
32	CWHT	1RA	M32	10.0	26.3	23.7	33.9	1.6	2.0	46.0	50.6	54.0	PVC11	0.306
40	CWHT	1RA	M40	15.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	PVC15	0.448
50S	CWHT	1RA	M50	15.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	PVC18	0.567
50	CWHT	1RA	M50	15.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	PVC21	0.751
63S	CWHT	1RA	M63	15.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	PVC23	1.036
63	CWHT	1RA	M63	15.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	PVC25	1.016
75S	CWHT	1RA	M75	15.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	PVC28	1.787
75	CWHT	1RA	M75	15.0	68.0	66.7	78.4	2.5	3.0	100.0	110.0	82.0	PVC30	2.091
90	CWHT	1RA	M90	24.0	80.0	76.2	90.3	3.15	4.0	114.3	125.7	95.0	PVC32	3.044
100	CWHT	1RA	M100	24.0	91.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	LSF33	3.132
115	CWHT	1RA	M115	24.0	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	LSF34	4.476
130	CWHT	1RA	M130	24.0	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	LSF35	5.761

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

Examples: 20CWHT1RA5 = Nickel Plated Brass M20, 50CWHT1RA = Brass 50mm, 25CWHT1RA4 = Stainless Steel 25mm

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

CXHT

ThermIn

CXHT HIGH TEMPERATURE, SINGLE SEAL INDUSTRIAL CABLE GLAND

FOR BRAIDED & STEEL TAPE ARMOURED CABLES

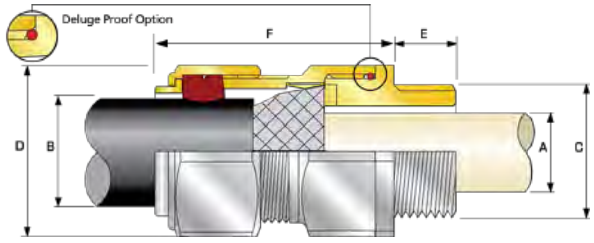
- -20˚C to 200˚C high temperature ThermIn seals
- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Controlled outer 'load retention' seal
- Deluge protection option
- Superior EMC performance

IP66

EMC +200˚C -20˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66

CABLE TYPE	Wire Braid Armour, Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA)
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring
CABLE GLAND KITS AVAILABLE	Cable Gland kit for use with all types of SWA cable including 2 Brass Cable Glands, 2 Steel Locknuts, 2 Brass Earth Tags and 2 PVC Shrouds for sizes up to and including 32mm. For sizes 40mm and above each kit includes 1 of each component.
CONTINUOUS OPERATING TEMPERATURE	-20˚C to +200˚C



CE

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
Deluge Proof option available (CWDHT)

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			ENTRY THREAD 'C'	THREAD LENGTH (METRIC) 'E'	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs)
SIZE	TYPE	ORDERING SUFFIX			MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	CXHT	1RA	M20	10.0	8.7	6.1	13.1	0.3	1.0	24.0	26.4	48.0	PVC04	0.100
20S	CXHT	1RA	M20	10.0	11.7	9.5	15.9	0.3	1.0	24.0	26.4	48.0	PVC04	0.100
20	CXHT	1RA	M20	10.0	14.0	12.5	20.9	0.4	1.0	30.5	33.6	48.0	PVC06	0.147
25S	CXHT	1RA	M25	10.0	20.0	14.0	22.0	0.4	1.2	37.5	41.3	56.0	PVC09	0.224
25	CXHT	1RA	M25	10.0	20.0	18.2	26.2	0.4	1.2	37.5	41.3	56.0	PVC09	0.221
32	CXHT	1RA	M32	10.0	26.0	23.7	33.9	0.4	1.2	46.0	50.6	54.0	PVC11	0.308
40	CXHT	1RA	M40	15.0	32.2	27.9	40.4	0.4	1.6	55.0	60.5	58.0	PVC15	0.448
50S	CXHT	1RA	M50	15.0	38.2	35.2	46.7	0.4	1.6	60.0	66.0	61.0	PVC18	0.567
50	CXHT	1RA	M50	15.0	44.1	40.4	53.0	0.6	1.6	70.1	77.1	60.0	PVC21	0.751
63S	CXHT	1RA	M63	15.0	50.0	45.6	59.4	0.6	1.6	75.0	82.5	74.0	PVC23	1.036
63	CXHT	1RA	M63	15.0	56.0	54.6	65.8	0.6	1.6	80.0	88.0	71.0	PVC25	1.016
75S	CXHT	1RA	M75	15.0	62.0	59.0	72.0	0.6	1.6	90.0	99.0	86.0	PVC28	1.787
75	CXHT	1RA	M75	15.0	64.2	66.7	78.4	0.6	1.6	100.0	110.0	82.0	PVC30	2.091
90	CXHT	1RA	M90	24.0	78.6	76.2	90.3	0.8	1.6	114.3	125.7	95.0	PVC32	3.044
100	CXHT	1RA	M100	24.0	91.0	86.1	101.4	0.8	1.6	123.0	135.3	95.0	LSF33	3.132
115	CXHT	1RA	M115	24.0	98.0	101.5	110.2	0.8	1.6	133.4	146.7	107.5	LSF34	4.476
130	CXHT	1RA	M130	24.0	115.0	110.2	123.2	0.8	1.6	152.4	167.6	110.0	LSF35	5.761

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

Examples: 20CXHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

A2FHT

A2FHT INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- -60˚C to +180˚C high temperature ThermEx seals
- Displacement type flameproof seal
- Deluge protected
- Internationally marked, UKEX, IECEx and ATEX

IP66 IP67 IP68

DELUGE PROTECTED

+180˚C ↑ -60˚C

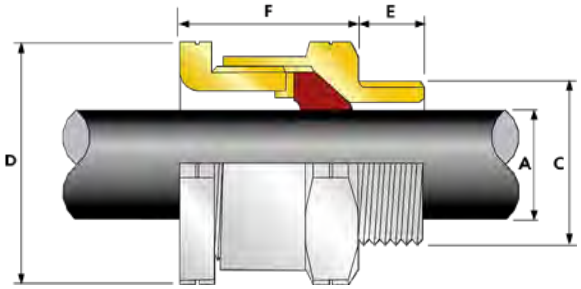
Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Unarmoured and Braided when terminated inside enclosure
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CONTINUOUS OPERATING TEMPERATURE	-60˚C to +180˚C

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1308X, CML18ATEX4312X	IECEx CERTIFICATE	IECEx CML 18.0173X
UKEX CERTIFICATE	CML 21UKEX1249X, CML 21UKEX4250X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc
COMPLIANCE STANDARDS	EN60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
ECAS CERTIFICATE	20-02-05632		
SANS	IA S-XPL21804 21.0003X		

CE Ex IEC IECEx UKCA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					OVERALL CABLE DIAMETER		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'
			STANDARD				OPTION					
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX	MAX
16	A2FHT	1RA	M16	15.0	-	-	-	3.2	8.0	24.0	26.4	34.9
20S16	A2FHT	1RA	M20	15.0	½"	19.9	¾"	3.2	8.0	24.0	26.4	30.4
20S	A2FHT	1RA	M20	15.0	½"	19.9	¾"	6.5	11.2	24.0	26.4	31.9
20	A2FHT	1RA	M20	15.0	½"	19.9	¾"	7.0	13.5	27.0	29.7	35.8
25	A2FHT	1RA	M25	15.0	¾"	20.2	1"	11.5	19.5	36.0	39.6	40.4
32	A2FHT	1RA	M32	15.0	1"	25.0	1 ¼"	19.0	25.5	41.0	45.1	38.5
40	A2FHT	1RA	M40	15.0	1 ¼"	25.6	1 ½"	25.0	32.2	50.0	55.0	38.8
50S	A2FHT	1RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	55.0	60.5	41.4
50	A2FHT	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	60.0	66.0	45.8
63S	A2FHT	1RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	70.5	77.6	43.3
63	A2FHT	1RA	M63	15.0	2 ½"	39.9	3"	48.2	54.9	75.0	82.5	43.6
75S	A2FHT	1RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	84.0	92.4	45.4

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2FHT1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SA2FHT1RA035 = Brass 1 ½" NPT, 25A2FHT1RA432 = Stainless Steel ¾" NPT, 20A2FHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

T3CDSHT

TRITON CDS (T3CDSHT) INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

- -20˚C to 200˚C high temperature ThermEx seals
- Fully sequential, three step installation procedure
- Reduces installation times, cost & risk
- Direct & remote installation
- Unique compensating displacement seal system (CDS)
- Metal-to-metal installation every time regardless of cable diameter
- Designed to reduce the effects of coldflow
- Integral protected deluge seal
- Controlled outer 'load retention' seal
- Internationally marked, UKEX, IECEx & ATEX
- Superior EMC performance

IP66 IP67 IP68

DELUGE PROTECTED | EMC | +200˚C / -20˚C

Ex eb | Ex db | Ex ta | Ex nR

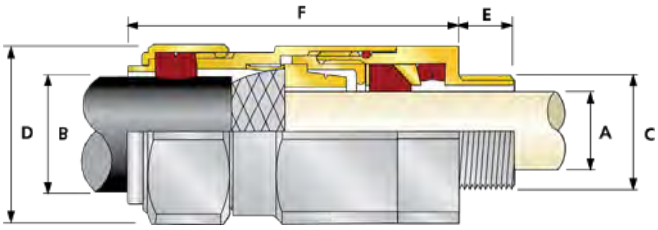
TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g CY/SY), Wire Braid Armour (e.g SWB)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	Inner Bedding Sealing Ring: Compensating Displacement Seal (CDS), Outer Sheath Sealing Ring : Load Retention Seal (LRS)
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel
ARMOUR CLAMPING	Reversible Armour Cone & AnyWay Universal Clamping Ring
CONTINUOUS OPERATING TEMPERATURE	-20˚C to +200˚C

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

PATENT GRANTED: GB 1077517

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1326X, CML18ATEX4318X	IECEx CERTIFICATE	IECEx CML 18.0183X
UKEX CERTIFICATE	CML 21UKEX1258X, CML 21UKEX4259X		
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex II 3G Ex nR IIC Gc, Ex I M2, Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
NEPSI CERTIFICATE	GYJ18.1253X		

CE | Ex | IEC | IECEx | Ex NEPSI | UK CA



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE†				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs)
			STANDARD				OPTION					GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	T3CDSHT	1RA	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	78.7	PVC36	0.20
20S	T3CDSHT	1RA	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	78.7	PVC36	0.20
20	T3CDSHT	1RA	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	76.2	PVC06	0.28
25S	T3CDSHT	1RA	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	88.8	PVC09	0.44
25	T3CDSHT	1RA	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	88.7	PVC09	0.44
32	T3CDSHT	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	90.7	PVC11	0.63
40	T3CDSHT	1RA	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	93.2	PVC15	0.91
50S	T3CDSHT	1RA	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	100.7	PVC18	1.12
50	T3CDSHT	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	105.8	PVC21	1.60
63S	T3CDSHT	1RA	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.4	102.5	PVC23	1.73
63	T3CDSHT	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	105.4	PVC25	1.78
75S	T3CDSHT	1RA	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	110.6	PVC28	2.57
75	T3CDSHT	1RA	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	120.3	PVC30	3.33
90	T3CDSHT	1RA	M90	24.0	3 ½"	42.8	4"	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	138.9	PVC32	4.87
100	T3CDSHT	1RA	M100	24.0	3 ½"	42.8	4"	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	128.2	LSF33	4.97
115	T3CDSHT	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	161.3	LSF34	7.72
130	T3CDSHT	1RA	M130	24.0	5"	46.8	-	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	173.3	LSF35	9.78

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32T3CDSHT1RA534 = Nickel Plated Brass 1¼" NPT, 50ST3CDSHT1RA035 = Brass 1½" NPT, 25T3CDSHT1RA432 = Stainless Steel ¾" NPT, 20T3CDSHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

SS2KHT

SS2KHT DOUBLE SEAL, INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- -20˚C to 200˚C high temperature ThermEx seals
- Provides double seal on outer sheath or single on outer & inner
- Direct & remote installation
- Superior levels of cable retention
- Displacement type flameproof seals
- Deluge protected
- Internationally marked UKEX, IECEx & ATEX

IP66 IP67 IP68

DELUGE PROTECTED

+200˚C ↑ -20˚C

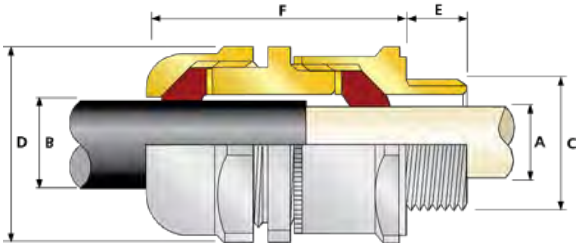
Ex eb Ex db Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Unarmoured & Braided
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath, Double Seal on Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
CONTINUOUS OPERATING TEMPERATURE	-20˚C to +200˚C

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1322X, CML18ATEX4314X	IECEx CERTIFICATE	IECEx CML 18.0178X
UKEX CERTIFICATE	CML 21UKEX1256X, CML 21UKEX4257X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G Ex nR IIC Gc, Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
NEPSI CERTIFICATE	GYJ18.1250X		

CE Ⓔx IEC IECEx Ex NEPSI UKCA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs)
			STANDARD				OPTION									
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	SS2KHT	1RA	M20	15.0	½"	19.9	¾"	3.2	8.6	3.2	8.6	24.0	26.4	49.0	PVC04	0.140
20S	SS2KHT	1RA	M20	15.0	½"	19.9	¾"	6.1	11.7	6.1	11.7	24.0	26.4	49.0	PVC04	0.130
20	SS2KHT	1RA	M20	15.0	½"	19.9	¾"	6.5	14.0	6.5	14.0	27.0	29.7	54.0	PVC05	0.160
25	SS2KHT	1RA	M25	15.0	¾"	20.2	1"	11.1	20.0	11.1	20.0	36.0	39.6	66.0	PVC09	0.300
32	SS2KHT	1RA	M32	15.0	1"	25.0	1 ¼"	17.0	26.3	17.0	26.3	41.0	45.1	67.0	PVC10	0.350
40	SS2KHT	1RA	M40	15.0	1 ¼"	25.6	1 ½"	23.5	32.1	23.5	32.1	50.0	55.0	70.0	PVC13	0.500
50S	SS2KHT	1RA	M50	15.0	1 ½"	26.1	2"	31.0	38.2	31.0	38.2	55.0	60.5	65.0	PVC15	0.560
50	SS2KHT	1RA	M50	15.0	2"	26.9	2 ½"	35.6	44.0	35.6	44.0	60.0	66.0	70.0	PVC18	0.590
63S	SS2KHT	1RA	M63	15.0	2"	26.9	2 ½"	41.5	49.9	41.5	49.9	70.5	77.6	70.0	PVC21	0.890
63	SS2KHT	1RA	M63	15.0	2 ½"	39.9	3"	47.2	55.9	47.2	55.9	75.0	82.5	71.0	PVC23	0.850
75S	SS2KHT	1RA	M75	15.0	2 ½"	39.9	3"	54.0	61.9	54.0	61.9	80.0	88.0	70.0	PVC25	1.020
75	SS2KHT	1RA	M75	15.0	3"	41.5	3 ½"	61.1	67.9	61.1	67.9	84.0	92.4	75.0	PVC26	0.990
90	SS2KHT	1RA	M90	24.0	3 ½"	42.8	4"	66.6	79.4	66.6	79.4	108.0	118.8	113.0	PVC31	2.990
100	SS2KHT	1RA	M100	24.0	3 ½"	42.8	4"	76.0	90.9	76.0	90.9	123.0	134.2	106.0	LSF33	3.390
115	SS2KHT	1RA	M115	24.0	4"	44.0	5"	86.0	97.9	86.0	97.9	133.4	146.7	128.0	LSF34	5.320
130	SS2KHT	1RA	M130	24.0	5"	46.8	-	97.0	114.9	97.0	114.9	152.4	167.6	129.0	LSF35	6.350

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32SS2KHT1RA534 = Nickel Plated Brass 1¼" NPT, 50SSS2KHT1RA035 = Brass 1½" NPT, 25SS2KHT1RA432 = Stainless Steel ¾" NPT, 20SS2KHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

C2KHT

C2KHT INTERNATIONALLY APPROVED, Ex e, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

- -20˚C to 200˚C high temperature ThermEx seals
- Metal-to-metal armour clamping
- Direct & remote installation
- Integral protected deluge seal
- Displacement type flameproof seal
- Controlled outer 'load retention' seal
- Internationally marked, UKEX, IECEx & ATEX
- Superior EMC performance

IP66 IP67 IP68

DELUGE PROTECTED | EMC | +200˚C -20˚C

Ex eb Ex ta

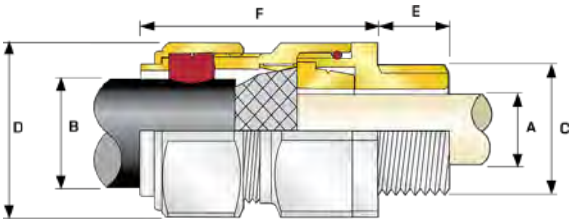
TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminium Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Armoured & Jacketed
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium
ARMOUR CLAMPING	Reversible Armour Cone & AnyWay Universal Clamping Ring
CONTINUOUS OPERATING TEMPERATURE	-20˚C to +200˚C

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1323X	IECEx CERTIFICATE	IECEx CML 18.0180X
UKEX CERTIFICATE	CML 21UKEX1251X		
CODE OF PROTECTION	II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,7,31	COMPLIANCE STANDARDS	IEC 60079-0,7,31



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armour (SWA), or Aluminium Wire Armour (AWA) cables.

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs)
			STANDARD				OPTION				GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	C2KHT	1RA	M20	15.0	½"	19.9	¾"	8.7	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	65.0	PVC04	0.23
20S	C2KHT	1RA	M20	15.0	½"	19.9	¾"	11.7	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	62.0	PVC04	0.24
20	C2KHT	1RA	M20	15.0	½"	19.9	¾"	14.0	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	63.0	PVC06	0.23
25S	C2KHT	1RA	M25	15.0	¾"	20.2	1"	20.0	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.35
25	C2KHT	1RA	M25	15.0	¾"	20.2	1"	20.0	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.35
32	C2KHT	1RA	M32	15.0	1"	25.0	1 ¼"	26.0	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	75.0	PVC11	0.55
40	C2KHT	1RA	M40	15.0	1 ¼"	25.6	1 ½"	32.2	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	75.0	PVC15	0.75
50S	C2KHT	1RA	M50	15.0	1 ½"	26.1	2"	38.2	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	77.0	PVC18	0.86
50	C2KHT	1RA	M50	15.0	2"	26.9	2 ½"	44.1	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	77.0	PVC21	1.13
63S	C2KHT	1RA	M63	15.0	2"	26.9	2 ½"	50.0	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.5	80.0	PVC23	1.13
63	C2KHT	1RA	M63	15.0	2 ½"	39.9	3"	56.0	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.0	PVC25	1.34
75S	C2KHT	1RA	M75	15.0	2 ½"	39.9	3"	62.0	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	87.0	PVC28	2.02
75	C2KHT	1RA	M75	15.0	3"	41.5	3 ½"	64.2	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.0	PVC30	2.48
90	C2KHT	1RA	M90	24.0	3 ½"	42.8	4"	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	102.0	PVC32	3.52
100	C2KHT	1RA	M100	24.0	3 ½"	42.8	4"	91.0	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	LSF33	4.58
115	C2KHT	1RA	M115	24.0	4"	44.0	5"	98.0	101.5	110.2	0.8	1.6	3.15	4.0	133.4	146.7	114.0	LSF34	6.50
130	C2KHT	1RA	M130	24.0	5"	46.8	-	115.0	110.2	123.2	0.8	1.6	3.15	4.0	152.4	167.6	114.0	LSF35	8.50

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32C2KHT1RA534 = Nickel Plated Brass 1¼" NPT, 50SC2KHT1RA035 = Brass 1½" NPT, 25C2KHT1RA432 = Stainless Steel ¾" NPT, 20C2KHT1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

FLAT-FORM CABLE GLANDS

The CMP range of EN/IEC 60079 certified explosive atmosphere and industrial cable glands specifically designed for use with flat-form and heat trace cables.

As with all of CMP's products, these cable glands are certified to the highest and most recent standards, and include optional high temperature ThermEx seals.

Multiple certification including ATEX, IECEx, and EAC enables the possibility of selecting fewer standard products for global situations.

The cable glands in the following section are shown in nickel plated brass. Alternative materials are available.

A2FF

A2FF SINGLE SEAL, FLAT-FORM INDUSTRIAL CABLE GLAND

FOR ALL TYPES OF FLAT-FORM UNARMOURED & BRAIDED CABLES

- Designed for flat-form / heat trace cables
- Displacement type seal
- Deluge protected
- -60˚C to +130˚C (standard), -20˚C to 200˚C (ThermIn option)

IP66 IP67 IP68

DELUGE PROTECTED

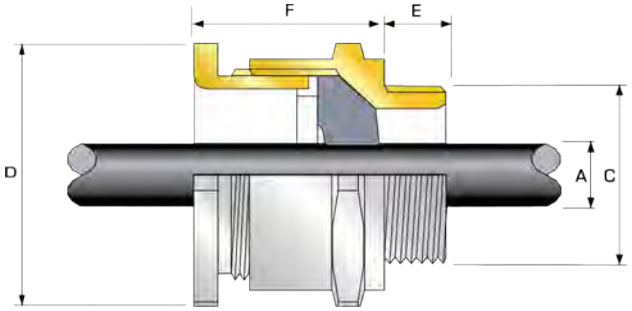
+130 ˚C ↑ -60 ˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Flat-form Unarmoured & Braided when terminated inside enclosure
SEAL MATERIAL	CMP Thermoset Rubber
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

Flat-form seals available for alternative Cable Glands upon request

CE



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					OVERALL CABLE DIAMETER 'A' (H X W)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	CABLE GLAND WEIGHT (kgs)
			STANDARD				OPTION						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX		
20S	A2FF	1RA	M20	10.0	½"	19.9	¾"	4.0 x 6.2	6.8 x 11.7	24.0	26.4	25.1	0.054
20	A2FF	1RA	M20	10.0	½"	19.9	¾"	5.7 x 8.0	8.7 x 13.5	27.0	29.7	27.2	0.059

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33

Examples: 25A2FF1RA432 = Stainless Steel ¾" NPT, 20A2FF1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

A2F-FF

A2F-FF INTERNATIONALLY APPROVED, FLAT-FORM EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF FLAT-FORM UNARMOURED & BRAIDED CABLES

- Designed for flat-form / heat trace cables
- Displacement type flameproof seal
- Deluge protected
- -60˚C to +130˚C (standard)
- Internationally marked, UKEX, IECEx and ATEX

IP66 IP67 IP68

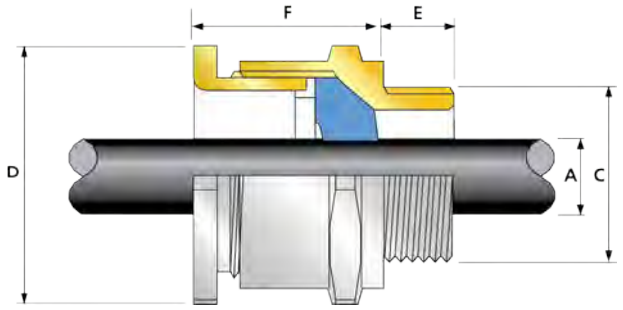
DELUGE PROTECTED

+130˚C -60˚C

Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Flat-form Unarmoured and Braided when terminated inside enclosure
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request
Flat-form seals available for alternative Cable Glands upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1321X, CML18ATEX4313X	IECEx CERTIFICATE	IECEx CML 18.0179X
UKEX CERTIFICATE	CML 21UKEX1245X, CML 21UKEX4246X		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G Ex nR IIC Gc,	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da,
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487 -60˚C to +130˚C (standard)	KCs KOSHA CERTIFICATE	13_GA4BO_0748X; 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X
CCC CERTIFICATE	2020322313002951	CCOE / PESO (INDIA) CERTIFICATE	P444949
UkrSEPRO	СЦ 19.0371X	ECAS CERTIFICATE	20-02-05362
SANS	IA S-XPL21804 21.0008X		

COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					OVERALL CABLE DIAMETER 'A' (H X W)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	CABLE GLAND WEIGHT (kg)
			STANDARD				OPTION						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MAX	MAX		
20S	A2FFF	1RA	M20	15.0	½"	19.9	¾"	4.0 x 6.2	6.8 x 11.7	24.0	26.4	25.1	0.054
20	A2FFF	1RA	M20	15.0	½"	19.9	¾"	5.7 x 8.0	8.7 x 13.5	27.0	29.7	27.2	0.059

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33
Examples: 25A2FF1RA432 = Stainless Steel ¾" NPT, 20A2FF1RA5 = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.

MINING GROUP I CABLE GLANDS

CMP Products' Underground Mining Group I cable glands accommodate all forms of electrical cable used in mining locations.

The IEC and EN Group I certified range of cable glands provides both the installer and OEM with the choice of using either a threaded entry cable gland or a flange mounted version; both being suitable for direct entry into the equipment.

Where a threaded entry is provided in the equipment and a flanged mounted gland either already exists or is preferred, CMP can supply a suitable adaptor which will convert from a threaded entry to a flanged entry by use of a MA/FT adaptor.

For installations using non-filled cables, barrier cable glands are available and provide a barrier seal (either epoxy compound or RapidEx resin) around the conductors and an environmental seal on the cable outer sheath.

The cable glands in the following section are shown in nickel plated brass. Alternative materials are available.

MA/FT MA/B

MA/FT & MA/B MINING FLANGED ADAPTOR

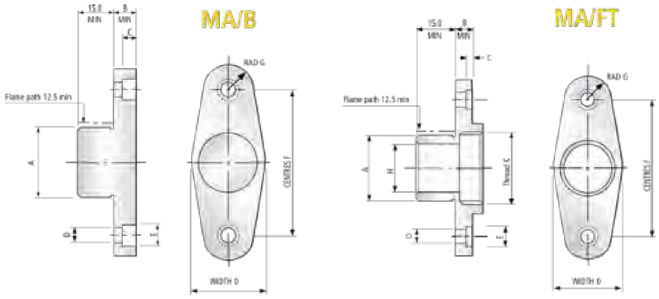
- Provides a conversion from spigot entry to a threaded entry
- Provides a thread size conversion if required
- Internationally marked, UKEX, IECEx & ATEX

Ex db

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
INGRESS PROTECTION RATING**	Dependent on Cable Gland
MATERIAL	Brass, Nickel plated Brass, Stainless Steel

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML 18ATEX1332U (MA/FT), CML 18ATEX1333U (MA/B)	IECEx CERTIFICATE	IECEx CML 18.0189U (MA/FT) IECEx CML 18.0188U (MA/B)
UKEX CERTIFICATE	CML 21UKEX1255U CML 21UKEX1254U		
CODE OF PROTECTION	I M2 Ex db I Mb	CODE OF PROTECTION	Ex db I Mb
COMPLIANCE STANDARDS	EN 60079-0,1	COMPLIANCE STANDARDS	IEC 60079-0,1

CE UKCA



ADAPTOR SIZE	BORE DIAMETER 'H'	LENGTH 'B'	THREAD DIAMETER "K"	SPIGOT DIAMETER 'A'	WIDTH "O"	CENTRES 'F'	DIAMETER 'D'	DIAMETER 'E'	BORE DEPTH 'C'	RADIUS 'G'
20S	11.7	11.1	M20	19.05	27.0	44.45	6.6	11.5	7.0	12.7
20	14.0	11.1	M20	19.05	32.0	44.45	6.6	11.5	7.0	12.7
25S	20.2	11.1	M25	25.40	39.0	57.17	6.6	11.5	7.0	12.7
25	20.2	11.1	M25	25.40	39.0	57.17	6.6	11.5	7.0	12.7
32	26.5	12.7	M32	31.75	45.0	69.85	9.0	15.5	8.7	14.3
40	32.4	12.7	M40	38.10	52.0	82.55	9.0	15.5	8.7	14.3
50S	38.4	14.5	M50	50.80	58.0	95.25	11.0	19.0	10.5	17.5
50	44.3	14.5	M50	50.80	64.0	95.25	11.0	19.0	10.5	17.5
63S	50.3	14.5	M63	63.50	71.0	114.30	11.0	19.0	10.5	17.5
63	56.2	14.5	M63	63.50	76.0	114.30	11.0	19.0	10.5	17.5
75S	62.2	18.0	M75	76.20	83.0	127.00	14.0	21.0	13.5	17.5
75	68.2	18.0	M75	76.20	88.0	127.00	14.0	21.0	13.5	17.5

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

A2F100HC

INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED CABLES HOUSED IN FLEXIBLE HOSE

- Complies 100% with IEC 60079-0 cable retention requirements
- No 'special conditions' for safe use
- Suitable for QLD & NSW coal mining applications
- External hose connection facility
- Approved for Group I & Group II
- High quality durable materials
- Wide sealing range for each cable gland size
- Displacement type flameproof seal
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx & ATEX
- Hose connection not liquid tight

IP66 IP67 IP68

DELUGE PROTECTED

+130˚C -60˚C

Ex eb Ex db Ex ta Ex nR

A2F100HC

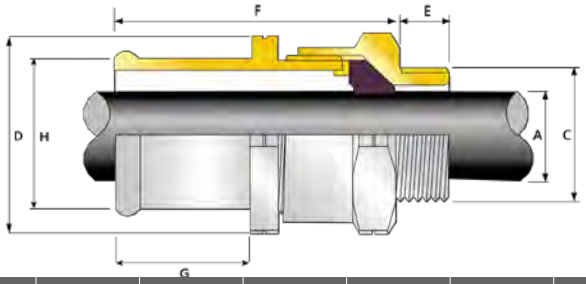
MINING GROUP I CABLE GLANDS

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules)
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured & enclosed within hose for mechanical protection
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1307, CML18ATEX4311	IECEx CERTIFICATE	IECEx CML 18.0172, IECEx SIM 17.0010
UKEX CERTIFICATE	CML 21UKEX1247, CML 21UKEX4248		
CODE OF PROTECTION	Ⓔx I M2 Ex db I Mb, Ex eb I Mb Ⓔx II 1D Ex ta IIIC Da, Ⓔx II 2G Ex db IIC Gb, Ex eb IIC Gb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nRc IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
ECAS CERTIFICATE	20-02-05362		

CE Ex IEC IECEx UKCA



COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		OVERALL CABLE DIAMETER 'A'		HOSE SIZE 'H'	ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	HOSE CONNECTION LENGTH 'G'	CABLE GLAND WEIGHT (kgs)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MIN	MAX		MAX	MAX			
20S16	A2F100HC16	1RA	M20	15.0	3.2	8.0	16.0	24.0	26.4	46.4	16.0	0.131
20S	A2F100HC16	1RA	M20	15.0	6.5	11.2	16.0	24.0	26.4	47.9	16.0	0.113
20	A2F100HC16	1RA	M20	15.0	7.0	13.5	16.0	27.0	29.7	51.8	16.0	0.140
20	A2F100HC19	1RA	M20	15.0	7.0	13.5	19.0	27.0	29.7	55.8	20.0	0.140
20L	A2F100HC19	1RA	M20	15.0	8.7	14.0	19.0	27.0	29.7	54.3	20.0	0.138
25	A2F100HC25	1RA	M25	15.0	11.5	19.5	25.0	36.0	39.6	67.4	27.0	0.240
25L	A2F100HC19	1RA	M25	15.0	14.0	20.0	19.0	36.0	39.6	59.9	20.0	0.236
25L	A2F100HC25	1RA	M25	15.0	14.0	20.0	25.0	36.0	39.6	66.9	27.0	0.238
32	A2F100HC32	1RA	M32	15.0	19.0	25.5	32.0	41.0	45.1	71.5	33.0	0.299
32L	A2F100HC25	1RA	M32	15.0	20.2	26.3	25.0	41.0	45.1	62.5	27.0	0.297
32L	A2F100HC32	1RA	M32	15.0	20.2	26.3	32.0	41.0	45.1	68.5	33.0	0.295
40	A2F100HC38	1RA	M40	15.0	25.0	32.2	38.0	50.0	55.0	79.8	41.0	0.430
50S	A2F100HC51	1RA	M50	15.0	31.0	38.2	51.0	55.0	60.5	95.4	54.0	0.838
50	A2F100HC51	1RA	M50	15.0	35.6	44.0	51.0	60.0	66.0	99.8	54.0	0.674
63S	A2F100HC63	1RA	M63	15.0	41.5	49.9	63.0	70.5	77.6	113.3	70.0	1.352
63	A2F100HC63	1RA	M63	15.0	48.2	54.9	63.0	75.0	82.5	113.6	70.0	1.032
75S	A2F100HC76	1RA	M75	15.0	54.0	61.9	76.0	84.0	92.4	136.9	91.5	2.101
75	A2F100HC76	1RA	M75	15.0	61.1	67.9	76.0	84.0	92.4	140.5	91.5	1.492

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

E1FX/M

E1FX/M MINING, INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR PLIABLE WIRE ARMOURED CABLES

- High quality durable materials
- Wide sealing range for each cable gland size
- Fully sequential, three step installation procedure
- Reduces subjectivity of installations
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx & ATEX
- Superior EMC performance

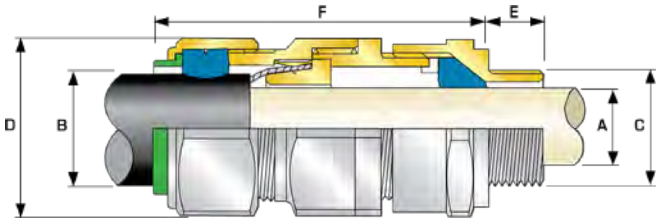
IP66 IP67 IP68 EMC +130 ˚C -60 ˚C Ex eb Ex db

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)

CABLE TYPE	Pliable Wire Armour (PWA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1324X	IECEx CERTIFICATE	IECEx CML 18.0181X
UKEX CERTIFICATE	CML 21UKEX1252X		
CODE OF PROTECTION	Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7	COMPLIANCE STANDARDS	IEC 60079-0,1,7



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		PLIABLE ARMOUR WIRE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs)
			STANDARD				OPTION											
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E1FX	1RA/M	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.0	7/0.45	24.0	26.4	72.5	PVC04	0.157
20S	E1FX	1RA/M	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.0	7/0.45	24.0	26.4	70.0	PVC04	0.157
20	E1FX	1RA/M	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.0	7/0.45	30.5	33.6	73.0	PVC06	0.206
25S	E1FX	1RA/M	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	0.0	7/0.45	37.5	41.3	89.0	PVC09	0.325
25	E1FX	1RA/M	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	0.0	7/0.45	37.5	41.3	89.0	PVC09	0.325
32	E1FX	1RA/M	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	0.0	7/0.45	46.0	50.6	86.0	PVC11	0.430
40	E1FX	1RA/M	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	0.0	7/0.71	55.0	60.5	90.0	PVC15	0.620
50S	E1FX	1RA/M	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	0.0	7/0.71	60.0	66.0	91.0	PVC18	0.750
50	E1FX	1RA/M	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	0.0	7/0.71	70.1	77.1	95.0	PVC21	0.950
63S	E1FX	1RA/M	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	0.0	7/0.71	75.0	82.5	102.0	PVC23	1.337
63	E1FX	1RA/M	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	0.0	7/0.71	80.0	88.0	104.0	PVC25	1.340
75S	E1FX	1RA/M	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	0.0	7/0.71	90.0	99.0	115.0	PVC28	2.110
75	E1FX	1RA/M	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	0.0	7/0.71	100.0	110.0	117.0	PVC30	2.420

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1FX1RA/M534 = Nickel Plated Brass 1¼" NPT, 50SE1FX1RA/M035 = Brass 1½" NPT, 25E1FX1RA/M432 = Stainless Steel ¾" NPT, 20E1FX1RA/M5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

E1FX/MF

E1FX/MF MINING, INTERNATIONALLY APPROVED, FLANGED EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR PLIABLE WIRE ARMOURED CABLES

- High quality durable materials
- Wide sealing range for each cable gland size
- Fully sequential, three step installation procedure
- Reduces subjectivity of installations
- Complete with flanged adaptor
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx & ATEX
- Superior EMC performance

IP66

EMC

+130˚C / -60˚C

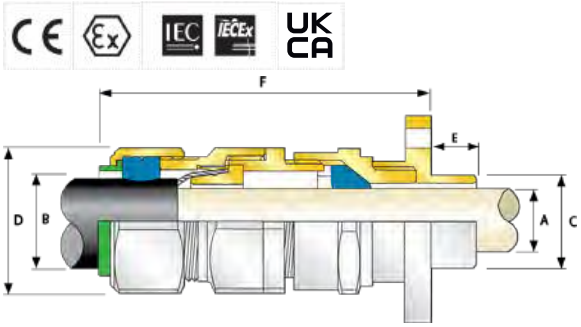
Ex db

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66

CABLE TYPE	Pliable Armour Wire (PWA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
See MA/FT, MA/B page for flange mounting dimensions
Alternative flange sizes available upon request

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1324X, CML18ATEX1332U	IECEx CERTIFICATE	IECEx CML 18.0181X, IECEx CML 18.0189U
UKEX CERTIFICATE	CML 21UKEX1252X, CML 21UKEX1255U		
CODE OF PROTECTION	Ex I M2 Ex db I Mb	CODE OF PROTECTION	Ex db I Mb
COMPLIANCE STANDARDS	EN 60079-0,1	COMPLIANCE STANDARDS	IEC 60079-0,1



COMBINED ORDERING REFERENCE (*BRASS METRIC)			MINIMUM SPIGOT LENGTH 'E'	SPIGOT DIAMETER 'C'	CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		PLIABLE WIRE DIAMETER		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	CABLE GLAND WEIGHT (kgs)
SIZE	TYPE	ORDERING SUFFIX			MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX		
20S	E1FX	1RA/MF	15.0	19.0	6.1	11.6	9.5	15.9	0.0	7/0.45	24.0	26.4	89.5	0.302
20	E1FX	1RA/MF	15.0	19.0	6.5	13.9	12.5	20.9	0.0	7/0.45	30.5	33.6	92.5	0.361
25S	E1FX	1RA/MF	15.0	25.4	11.1	19.9	14.0	22.0	0.0	7/0.45	37.5	41.3	109.6	0.575
25	E1FX	1RA/MF	15.0	25.4	11.1	19.9	18.2	26.2	0.0	7/0.45	37.5	41.3	109.6	0.572
32	E1FX	1RA/MF	15.0	31.8	17.0	26.2	23.7	33.9	0.0	7/0.45	46.0	50.6	107.2	0.745
40	E1FX	1RA/MF	15.0	38.1	22.0	32.1	27.9	40.4	0.0	7/0.71	55.0	60.5	111.2	1.015
50S	E1FX	1RA/MF	15.0	50.8	29.5	38.1	35.2	46.7	0.0	7/0.71	60.0	66.0	109.0	1.478
50	E1FX	1RA/MF	15.0	50.8	35.6	44.0	40.4	53.0	0.0	7/0.71	70.1	77.1	113.0	1.683
63S	E1FX	1RA/MF	15.0	63.5	40.1	49.9	45.6	59.4	0.0	7/0.71	75.0	82.5	120.5	2.109
63	E1FX	1RA/MF	15.0	63.5	47.2	55.9	54.6	65.8	0.0	7/0.71	80.0	88.0	122.5	2.149
75S	E1FX	1RA/MF	15.0	76.2	52.8	61.9	59.0	72.0	0.0	7/0.71	90.0	99.0	142.5	3.664
75	E1FX	1RA/MF	15.0	76.2	59.1	67.9	66.7	78.4	0.0	7/0.71	100.0	110.0	144.5	3.978

*Note : For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5" 316 Grade Stainless Steel "4", Copper Free Aluminium "1"
Examples: 32E1FX1RA/MF = Brass, 50SE1FX1RA/MF5 = Nickel Plated Brass, 25E1FX1RA/MF4 = Stainless Steel
Dimensions are displayed in millimetres unless otherwise stated

E1FW/M

E1FW/M MINING, INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES STEEL & ALUMINIUM WIRE ARMOURED CABLES

- High quality durable materials
- Wide sealing range for each cable gland size
- Fully sequential, three step installation procedure
- Reduces subjectivity of installations
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx & ATEX
- Superior EMC performance

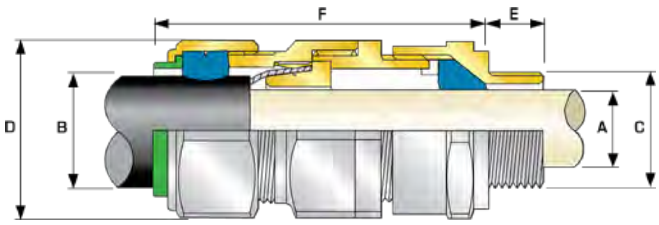
IP66 IP67 IP68 EMC +130 ˚C -60 ˚C Ex eb Ex db

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1324X	IECEx CERTIFICATE	IECEx CML 18.0181X
UKEX CERTIFICATE	CML 21UKEX1252X		
CODE OF PROTECTION	Ex I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN60079-0,1,7	COMPLIANCE STANDARDS	IEC 60079-0,1,7

CE Ex IEC IECEx UKCA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs))
			STANDARD				OPTION											
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E1FW	1RA/M	M20	15.0	½"	19.9	¾"	3.1	8.6	6.1	13.1	0.8	1.25	24.0	26.4	72.5	PVC04	0.157
20S	E1FW	1RA/M	M20	15.0	½"	19.9	¾"	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	70.0	PVC04	0.157
20	E1FW	1RA/M	M20	15.0	½"	19.9	¾"	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	73.0	PVC06	0.206
25S	E1FW	1RA/M	M25	15.0	¾"	20.2	1"	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	89.0	PVC09	0.325
25	E1FW	1RA/M	M25	15.0	¾"	20.2	1"	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	89.0	PVC09	0.325
32	E1FW	1RA/M	M32	15.0	1"	25.0	1 ¼"	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	86.0	PVC11	0.430
40	E1FW	1RA/M	M40	15.0	1 ¼"	25.6	1 ½"	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	90.0	PVC15	0.620
50S	E1FW	1RA/M	M50	15.0	1 ½"	26.1	2"	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	91.0	PVC18	0.750
50	E1FW	1RA/M	M50	15.0	2"	26.9	2 ½"	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	95.0	PVC21	0.950
63S	E1FW	1RA/M	M63	15.0	2"	26.9	2 ½"	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	102.0	PVC23	1.337
63	E1FW	1RA/M	M63	15.0	2 ½"	39.9	3"	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	104.0	PVC25	1.340
75S	E1FW	1RA/M	M75	15.0	2 ½"	39.9	3"	52.8	61.9	59.0	72.0	2.0	2.5	90.0	99.0	115.0	PVC28	2.110
75	E1FW	1RA/M	M75	15.0	3"	41.5	3 ½"	59.1	67.9	66.7	78.4	2.5	3.0	100.0	110.0	117.0	PVC30	2.420

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1FW1RA/M534 = Nickel Plated Brass 1¼" NPT, 50SE1FW1RA/M035 = Brass 1½" NPT, 25E1FW1RA/M432 = Stainless Steel ¾" NPT, 20E1FW1RA/M5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

E1FW/MF

E1FW/MF MINING, INTERNATIONALLY APPROVED, FLANGED EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES STEEL & ALUMINIUM WIRE ARMOURED CABLES

- High quality durable materials
- Wide sealing range for each cable gland size
- Fully sequential, three step installation procedure
- Reduces subjectivity of installations
- Complete with flanged adaptor
- Metal-to-metal armour clamping
- Direct & remote installation
- Displacement type flameproof inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Internationally marked, UKEX, IECEx & ATEX
- Superior EMC performance

IP66

EMC

+130˚C / -60˚C

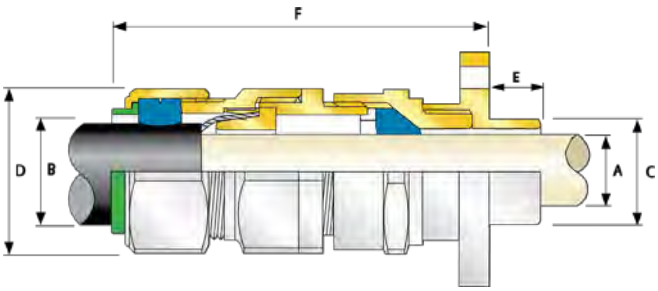
Ex db

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66

CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
See MA/FT, MA/B page for flange mounting dimensions
Alternative flange sizes available upon request

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX1332U	IECEx CERTIFICATE	IECEx CML 18.0182X, IECEx CML 18.0189U
UKEX CERTIFICATE	CML 21UKEX1252X, CML 21UKEX1255U		
CODE OF PROTECTION	Ⓔx I M2 Ex db I Mb	CODE OF PROTECTION	Ex db I Mb
COMPLIANCE STANDARDS	EN60079-0,1	COMPLIANCE STANDARDS	IEC 60079-0,1



COMBINED ORDERING REFERENCE (*BRASS METRIC)			MINIMUM SPIGOT LENGTH 'E'	SPIGOT DIAMETER 'C'	CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	CABLE GLAND WEIGHT (kgs)
SIZE	TYPE	ORDERING SUFFIX			MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX		
20S	E1FW	1RA/MF	15.0	19.0	6.1	11.6	9.5	15.9	0.8	1.25	24.0	26.4	89.5	0.302
20	E1FW	1RA/MF	15.0	19.0	6.5	13.9	12.5	20.9	0.8	1.25	30.5	33.6	92.5	0.361
25S	E1FW	1RA/MF	15.0	25.4	11.1	19.9	14.0	22.0	1.25	1.6	37.5	41.3	109.6	0.575
25	E1FW	1RA/MF	15.0	25.4	11.1	19.9	18.2	26.2	1.25	1.6	37.5	41.3	109.6	0.572
32	E1FW	1RA/MF	15.0	31.8	17.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	107.2	0.745
40	E1FW	1RA/MF	15.0	38.1	22.0	32.1	27.9	40.4	1.6	2.0	55.0	60.5	111.2	1.015
50S	E1FW	1RA/MF	15.0	50.8	29.5	38.1	35.2	46.7	2.0	2.5	60.0	66.0	109	1.478
50	E1FW	1RA/MF	15.0	50.8	35.6	44.0	40.4	53.0	2.0	2.5	70.1	77.1	113	1.683
63S	E1FW	1RA/MF	15.0	63.5	40.1	49.9	45.6	59.4	2.0	2.5	75.0	82.5	120.5	2.109
63	E1FW	1RA/MF	15.0	63.5	47.2	55.9	54.6	65.8	2.0	2.5	80.0	88.0	122.5	2.149
75S	E1FW	1RA/MF	15.0	76.2	52.8	61.9	59.0	72.0	2.5	3.0	89.0	97.9	142.5	3.664
75	E1FW	1RA/MF	15.0	76.2	59.1	67.9	66.7	78.4	2.5	3.0	99.0	108.9	144.5	3.978

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
Examples: 32E1FW1RA/MF = Brass, 50SE1FW1RA/MF5 = Nickel Plated Brass, 25E1FW1RA/MF4 = Stainless Steel
Dimensions are displayed in millimetres unless otherwise stated

PXSS2K/M

PXSS2K/M MINING, INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR ALL TYPES OF UNARMOURED CABLES

- Displacement type environmental seal
- Compound barrier type flameproof seal
- -60˚C to +85˚C
- Internationally marked, UKEX, IECEx & ATEX
- Once any cable inner sheath/bedding has been removed, the compound barrier seals directly around the internal cable cores, after the inner sheath/bedding has been removed, completely eliminating any risk of coldflow on all cable types

IP66 IP67 IP68

DELUGE PROTECTED

+85˚C ↑ -60˚C

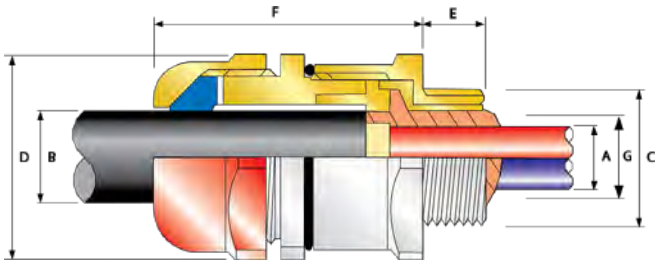
Ex eb Ex db

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01:91
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
CABLE TYPE	Unarmoured
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Inner Compound Barrier & Outer Sheath

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.
Also available with RapidEx

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X		
CODE OF PROTECTION	Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb
CODE OF PROTECTION	EN 60079-0,1,7	COMPLIANCE STANDARDS	IEC 60079-0,1,7

CE Ex IEC IECEx UKCA



COMBINED ORDERING REFERENCE ("BRASS METRIC)			MINIMUM THREAD LENGTH 'E'	ENTRY THREAD 'C'	MAXIMUM DIAMETER OVER CONDUCTORS 'A'	NUMBER OF CORES	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs)
SIZE	TYPE	ORDERING SUFFIX			DIAMETER		MAX	MIN	MAX	MAX	MAX			
20S	PXSS2K	1RA/M	15.0	M20	12.6	21	11.7	6.1	11.7	30.0	33.0	53.1	PVC06	0.200
20	PXSS2K	1RA/M	15.0	M20	12.6	21	12.9	6.5	14.0	30.0	33.0	54.2	PVC06	0.200
25	PXSS2K	1RA/M	15.0	M25	17.5	30	17.9	11.1	20.0	36.0	39.6	60.0	PVC09	0.330
32	PXSS2K	1RA/M	15.0	M32	23.6	38	23.9	17.0	26.3	41.0	45.1	61.1	PVC10	0.590
40	PXSS2K	1RA/M	15.0	M40	30.0	59	30.3	22.0	32.1	50.0	55.0	62.4	PVC13	0.560
50S	PXSS2K	1RA/M	15.0	M50	36.6	89	36.9	29.5	38.2	55.0	60.5	65.2	PVC15	0.660
50	PXSS2K	1RA/M	15.0	M50	41.0	115	41.3	35.6	44.0	60.0	66.0	67.6	PVC18	0.730
63S	PXSS2K	1RA/M	15.0	M63	47.9	115	48.4	40.1	49.9	70.0	77.0	71.1	PVC21	1.070
63	PXSS2K	1RA/M	15.0	M63	53.7	115	54.0	47.2	55.9	75.0	82.5	70.4	PVC23	1.060
75S	PXSS2K	1RA/M	15.0	M75	59.8	140	60.2	52.8	61.9	80.0	88.0	75.3	PVC25	1.300
75	PXSS2K	1RA/M	15.0	M75	64.3	140	64.2	59.1	67.9	85.0	93.5	74.9	PVC27	1.300

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
Examples: 32PXSS2K1RA/M = Brass, 50SPXSS2K1RA/M5 = Nickel Plated Brass, 25PXSS2K1RA/M4 = Stainless Steel
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

PXSS2K/MF

PXSS2K/MF MINING, INTERNATIONALLY APPROVED, FLANGED EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR ALL TYPES OF UNARMOURED CABLES

- Complete with flanged adaptor
- Displacement type environmental seal
- Compound barrier type flameproof seal
- -60˚C to +85˚C
- Internationally marked, UKEX, IECEx & ATEX
- Once any cable inner sheath/bedding has been removed, the compound barrier seals directly around the internal cable cores, after the inner sheath/bedding has been removed, completely eliminating any risk of coldflow on all cable types

IP66

+85˚C
-60˚C

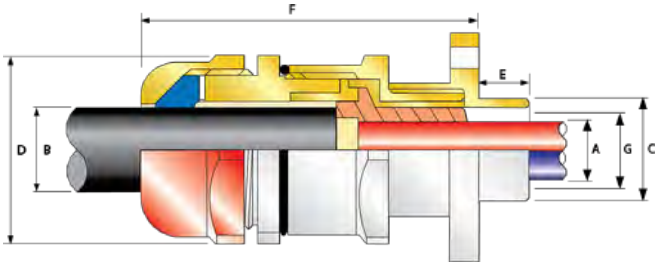
Ex db

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66

CABLE TYPE	Unarmoured
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Inner Compound Barrier & Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
See MA/FT, MA/B page for flange mounting dimensions
Alternative flange sizes available upon request
Also available with RapidEx

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX1332U	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX1255U		
CODE OF PROTECTION	Ⓔx I M2 Ex db I Mb,	CODE OF PROTECTION	Ex db I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7	COMPLIANCE STANDARDS	IEC 60079-0,1,7



COMBINED ORDERING REFERENCE (*BRASS METRIC)			MINIMUM SPIGOT LENGTH 'E'	SPIGOT DIAMETER 'C'	NUMBER OF CORES	DIAMETER OVER CONDUCTORS	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	CABLE GLAND WEIGHT (kgs)
SIZE	TYPE	ORDERING SUFFIX				MAX	MAX	MIN	MAX	MAX	MAX		
20S	PXSS2K	1RA/MF	15.0	19.0	21	11.7	11.7	6.1	11.7	30.0	33.0	70.2	0.360
20	PXSS2K	1RA/MF	15.0	19.0	21	12.6	12.9	6.5	14.0	30.0	33.0	71.3	0.360
25	PXSS2K	1RA/MF	15.0	25.4	30	17.5	17.9	11.1	20.0	36.0	39.6	80.6	0.580
32	PXSS2K	1RA/MF	15.0	31.8	38	23.6	23.9	17.0	26.3	41.0	45.1	82.3	0.710
40	PXSS2K	1RA/MF	15.0	38.1	59	30.0	30.3	22.0	32.1	50.0	55.0	90.1	0.950
50S	PXSS2K	1RA/MF	15.0	50.8	89	36.6	36.9	29.5	38.2	55.0	60.5	94.9	1.400
50	PXSS2K	1RA/MF	15.0	50.8	115	41.0	41.3	35.6	44.0	60.0	66.0	97.3	1.470
63S	PXSS2K	1RA/MF	15.0	63.5	115	47.9	48.4	40.1	49.9	70.1	77.1	92.6	1.840
63	PXSS2K	1RA/MF	15.0	63.5	115	53.7	54.0	47.2	55.9	75.0	82.5	89.4	1.870
75S	PXSS2K	1RA/MF	15.0	76.2	140	59.9	60.2	52.8	61.9	80.0	88.0	102.8	2.860
75	PXSS2K	1RA/MF	15.0	76.2	140	64.2	64.2	59.1	67.9	85.0	93.5	102.4	2.860

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
Examples: 32PXSS2K1RA/MF = Brass, 50SPXSS2K1RA/MF5 = Nickel Plated Brass, 25PXSS2K1RA/MF4 = Stainless Steel
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

PX2KX/M

PX2KX/M MINING, INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR PLIABLE WIRE ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +85˚C
- Internationally marked, UKEX, IECEx & ATEX
- Superior EMC performance
- Once any cable inner sheath/bedding has been removed, the compound barrier seals directly around the internal cable cores, after the inner sheath/bedding has been removed, completely eliminating any risk of coldflow on all cable types

IP66 IP67 IP68

DELUGE PROTECTED | EMC | +85˚C ↑ -60˚C

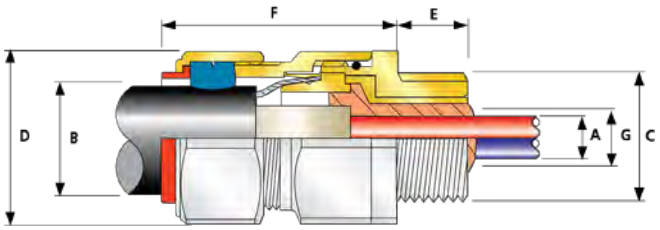
Ex eb Ex db

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B (Category A when used with braid, tape or pliable wire armour cables)
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Pliable Wire Armour (PWA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
SEALING AREA(S)	Inner Compound Barrier & Cable Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel
ARMOUR CLAMPING	Detachable Compound Tube / Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.
Also available with RapidEx

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X		
CODE OF PROTECTION	Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7	COMPLIANCE STANDARDS	IEC 60079-0,1,7

CE Ex IEC IECEx UKCA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	MAXIMUM DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		PLIABLE ARMOUR WIRE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs)
			STANDARD				OPTION												
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT				MIN	MAX	MIN	MAX	MAX	MAX			
20S	PX2KX	1RA/M	M20	15.0	½"	19.9	¾"	21	11.7	11.7	9.5	15.9	0.0	7/0.45	30.5	33.6	62.0	PVC06	0.230
20	PX2KX	1RA/M	M20	15.0	½"	19.9	¾"	21	12.6	12.9	12.5	20.9	0.0	7/0.45	30.5	33.6	63.0	PVC06	0.240
25S	PX2KX	1RA/M	M25	15.0	¾"	20.2	1"	30	17.5	17.9	14.0	22.0	0.0	7/0.45	37.5	41.3	69.5	PVC09	0.370
25	PX2KX	1RA/M	M25	15.0	¾"	20.2	1"	30	17.5	17.9	18.2	26.2	0.0	7/0.45	37.5	41.3	69.5	PVC09	0.370
32	PX2KX	1RA/M	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	23.7	33.9	0.0	7/0.45	46.0	50.6	75.0	PVC11	0.570
40	PX2KX	1RA/M	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	0.0	7/0.71	55.0	60.5	75.0	PVC15	0.800
50S	PX2KX	1RA/M	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	0.0	7/0.71	60.0	66.0	77.0	PVC18	0.900
50	PX2KX	1RA/M	M50	15.0	2"	26.9	2 ½"	115	41.0	41.3	40.4	53.0	0.0	7/0.71	70.1	77.1	77.0	PVC21	1.190
63S	PX2KX	1RA/M	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	0.0	7/0.71	75.0	82.5	79.7	PVC23	1.390
63	PX2KX	1RA/M	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	0.0	7/0.71	80.0	88.0	80.3	PVC25	1.410
75S	PX2KX	1RA/M	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	0.0	7/0.71	90.0	99.0	86.8	PVC28	2.090
75	PX2KX	1RA/M	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	0.0	7/0.71	100.0	110.0	88.3	PVC30	2.540

*Note :For material options please add the following suffix to change the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5", 316 Grade Stainless Steel "4", Copper Free Aluminium "1"
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38 (Brass requires prefix "0")

Examples: 32PX2KX1RA/M534 = Nickel Plated Brass 1¼" NPT, 50SPX2KX1RA/M035 = Brass 1½" NPT, 25PX2KX1RA/M432 = Stainless Steel ¾" NPT, 20PX2KX1RA/M5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

PX2KX/MF

PX2KX/MF MINING, INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR PLIABLE WIRE ARMOURED CABLES

- Complete with flanged adaptor
- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +85˚C
- Internationally marked, UKEX, IECEx & ATEX
- Superior EMC performance
- Once any cable inner sheath/bedding has been removed, the compound barrier seals directly around the internal cable cores, after the inner sheath/bedding has been removed, completely eliminating any risk of coldflow on all cable types

IP66 IP67 IP68

EMC +85˚C -60˚C

Ex db

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***

CABLE TYPE	Pliable Wire Armour (PWA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
SEALING TECHNIQUE	CMP 'LRS'™ Outer Load Retention Seal
SEALING AREA(S)	Inner Compound Barrier & Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

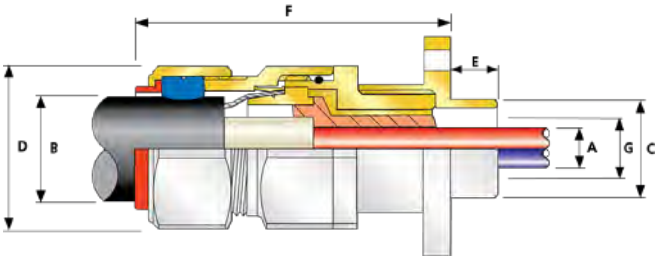
See MA/FT, MA/B page for flange mounting dimensions

Alternative flange sizes available upon request

Also available with RapidEx

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX1332U	IECEx CERTIFICATE	IECEx CML 18.0182X, IECEx CML 18.0189U
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX1255U		
CODE OF PROTECTION	Ex I M2 Ex db I Mb,	CODE OF PROTECTION	Ex db I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7	COMPLIANCE STANDARDS	IEC 60079-0,1,7

CE Ex IEC IECEx UKCA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			MINIMUM SPIGOT LENGTH 'E'	SPIGOT DIAMETER 'C'	NUMBER OF CORES	MAXIMUM DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		PLIABLE ARMOUR WIRE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	CABLE GLAND WEIGHT (kgs)
SIZE	TYPE	ORDERING SUFFIX						MIN	MAX	MIN	MAX	MAX	MAX		
20S	PX2KX	1RA/MF	15.0	19.0	21	11.7	11.7	9.5	15.9	0.0	7/0.45	30.5	33.6	79.1	0.400
20	PX2KX	1RA/MF	15.0	19.0	21	12.6	12.9	12.5	20.9	0.0	7/0.45	30.5	33.6	80.1	0.390
25S	PX2KX	1RA/MF	15.0	25.4	30	17.5	17.9	14.0	22.0	0.0	7/0.45	37.5	41.3	90.1	0.490
25	PX2KX	1RA/MF	15.0	25.4	30	17.5	17.9	18.2	26.2	0.0	7/0.45	37.5	41.3	90.1	0.620
32	PX2KX	1RA/MF	15.0	31.8	38	23.6	23.9	23.7	33.9	0.0	7/0.45	46.0	50.6	96.2	0.690
40	PX2KX	1RA/MF	15.0	38.1	59	30.0	30.3	27.9	40.4	0.0	7/0.71	55.0	60.5	102.7	0.960
50S	PX2KX	1RA/MF	15.0	50.8	89	36.6	36.9	35.2	46.7	0.0	7/0.71	60.0	66.0	106.7	1.540
50	PX2KX	1RA/MF	15.0	50.8	115	41.0	41.3	40.4	53.0	0.0	7/0.71	70.1	77.1	106.7	1.640
63S	PX2KX	1RA/MF	15.0	63.5	115	47.9	48.4	45.6	59.4	0.0	7/0.71	75.0	82.5	101.2	1.960
63	PX2KX	1RA/MF	15.0	63.5	115	53.7	54.0	54.6	65.8	0.0	7/0.71	80.0	88.0	99.3	2.200
75S	PX2KX	1RA/MF	15.0	76.2	140	59.9	60.2	59.0	72.0	0.0	7/0.71	90.0	99.0	114.3	2.970
75	PX2KX	1RA/MF	15.0	76.2	140	64.2	64.2	66.7	78.4	0.0	7/0.71	100.0	110.0	115.8	3.650

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'

Examples: 32PX2KX1RA/MF = Brass, 50SPX2KX1RA/MF5 = Nickel Plated Brass, 25PX2KX1RA/MF4 = Stainless Steel

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

PX2KW/M

PX2KW/M MINING, INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR ALL TYPES STEEL & ALUMINIUM WIRE ARMOURED CABLES

- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +85˚C
- Internationally marked, UKEX, IECEx & ATEX
- Superior EMC performance
- Once any cable inner sheath/bedding has been removed, the compound barrier seals directly around the internal cable cores, after the inner sheath/bedding has been removed, completely eliminating any risk of coldflow on all cable types

IP66 IP67 IP68 | DELUGE PROTECTED | EMC | +85˚C ↑ -60˚C | Ex eb | Ex db

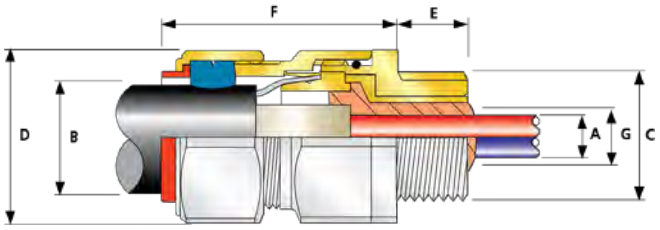
TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Inner Compound Barrier & Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

Also available with RapidEx

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X		
CODE OF PROTECTION	Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7	COMPLIANCE STANDARDS	IEC 60079-0,1,7

CE | Ex | IEC | IECEx | UK CA



COMBINED ORDERING REFERENCE (*BRASS METRIC)			AVAILABLE ENTRY THREADS 'C' ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)					NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kgs)
			STANDARD				OPTION												
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH (METRIC) 'E'	NPT	THREAD LENGTH (NPT) 'E'	NPT				MIN	MAX	MIN	MAX	MAX	MAX			
20S	PX2KW/M	1RA	M20	15.0	½"	19.9	¾"	21	11.7	11.7	9.5	15.9	0.8	1.25	30.5	33.6	62.0	PVC06	0.230
20	PX2KW/M	1RA	M20	15.0	½"	19.9	¾"	21	12.6	12.9	12.5	20.9	0.8	1.25	30.5	33.6	63.0	PVC06	0.240
25S	PX2KW/M	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	14.0	22.0	1.25	1.6	37.5	41.3	69.5	PVC09	0.370
25	PX2KW/M	1RA	M25	15.0	¾"	20.2	1"	30	17.5	17.9	18.2	26.2	1.25	1.6	37.5	41.3	69.5	PVC09	0.370
32	PX2KW/M	1RA	M32	15.0	1"	25.0	1 ¼"	38	23.6	23.9	23.7	33.9	1.6	2.0	46.0	50.6	75.0	PVC11	0.570
40	PX2KW/M	1RA	M40	15.0	1 ¼"	25.6	1 ½"	59	30.0	30.3	27.9	40.4	1.6	2.0	55.0	60.5	75.0	PVC15	0.800
50S	PX2KW/M	1RA	M50	15.0	1 ½"	26.1	2"	89	36.6	36.9	35.2	46.7	2.0	2.5	60.0	66.0	77.0	PVC18	0.900
50	PX2KW/M	1RA	M50	15.0	2"	26.9	2 ½"	115	41.0	41.3	40.4	53.0	2.0	2.5	70.1	77.1	77.0	PVC21	1.190
63S	PX2KW/M	1RA	M63	15.0	2"	26.9	2 ½"	115	47.9	48.4	45.6	59.4	2.0	2.5	75.0	82.5	79.7	PVC23	1.390
63	PX2KW/M	1RA	M63	15.0	2 ½"	39.9	3"	115	53.7	54.0	54.6	65.8	2.0	2.5	80.0	88.0	80.3	PVC25	1.410
75S	PX2KW/M	1RA	M75	15.0	2 ½"	39.9	3"	140	59.9	60.2	59.0	72.0	2.0	2.5	90.0	99.0	86.8	PVC28	2.090
75	PX2KW/M	1RA	M75	15.0	3"	41.5	3 ½"	140	64.2	64.2	66.7	78.4	2.5	3.0	100.0	110.0	88.3	PVC30	2.540

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
For NPT options please add the following digits to the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38 (Brass requires prefix "0")

Examples: 32PX2KW1RA/M534 = Nickel Plated Brass 1¼" NPT, 50SPX2KW1RA/M035 = Brass 1½" NPT, 25PX2KW1RA/M432 = Stainless Steel ¾" NPT,20PX2KW1RA/M5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

PX2KW/MF

PX2KW/MF MINING, INTERNATIONALLY APPROVED, FLANGED EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND

FOR ALL TYPES STEEL & ALUMINIUM WIRE ARMOURED CABLES

- Complete with flanged adaptor
- Metal-to-metal armour clamping
- Direct & remote installation
- Compound barrier type flameproof seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- -60˚C to +85˚C
- Internationally marked, UKEX, IECEx & ATEX
- Superior EMC performance
- Once any cable inner sheath/bedding has been removed, the compound barrier seals directly around the internal cable cores, after the inner sheath/bedding has been removed, completely eliminating any risk of coldflow on all cable types

IP66

EMC +85˚C -60˚C

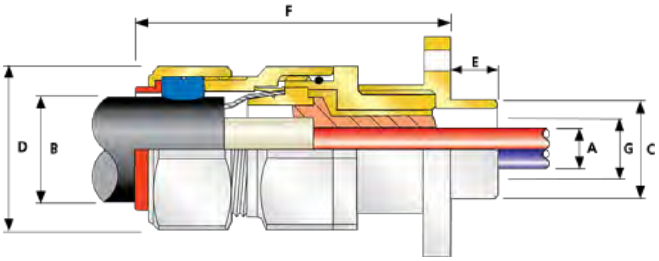
Ex db

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATIONS*	Category B
INGRESS PROTECTION RATING**	IP66

CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
SEALING TECHNIQUE	Unique CMP 'LRS' Outer Seal (Load Retention Seal)
SEALING AREA(S)	Inner Compound Barrier & Outer Sheath
CABLE GLAND MATERIAL	Brass, Electroless Nickel Plated Brass, Stainless Steel
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
See MA/FT, MA/B page for flange mounting dimensions
Alternative flange sizes available upon request
Also available with RapidEx

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX1332U	IECEx CERTIFICATE	IECEx CML 18.0182X, IECEx CML 18.0189U
UKEX CEERTIFICATE	CML 21UKEX1214X, CML 21UKEX1255U		
CODE OF PROTECTION	Ⓔx I M2 Ex db I Mb	CODE OF PROTECTION	Ex db I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7	COMPLIANCE STANDARDS	IEC 60079-0,1,7



COMBINED ORDERING REFERENCE (*BRASS METRIC)			MINIMUM SPIGOT LENGTH 'E'	SPIGOT DIAMETER 'C'	NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	CABLE GLAND WEIGHT (kgs)
SIZE	TYPE	ORDERING SUFFIX						MIN	MAX	MIN	MAX	MAX	MAX		
20S	PX2KW	1RA/MF	15.0	19.0	21	11.7	11.7	9.5	15.9	0.8	1.25	30.5	33.6	79.1	0.390
20	PX2KW	1RA/MF	15.0	19.0	21	12.6	12.9	12.5	20.9	0.8	1.25	30.5	33.6	80.1	0.400
25S	PX2KW	1RA/MF	15.0	25.4	30	17.5	17.9	14.0	22.0	1.25	1.6	37.5	41.3	90.1	0.620
25	PX2KW	1RA/MF	15.0	25.4	30	17.5	17.9	18.2	26.2	1.25	1.6	37.5	41.3	90.1	0.620
32	PX2KW	1RA/MF	15.0	31.8	38	23.6	23.9	23.7	33.9	1.6	2.0	46.0	50.6	96.2	0.890
40	PX2KW	1RA/MF	15.0	38.1	59	30.0	30.3	27.9	40.4	1.6	2.0	55.0	60.5	102.7	1.190
50S	PX2KW	1RA/MF	15.0	50.8	89	36.6	36.9	35.2	46.7	2.0	2.5	60.0	66.0	106.7	1.640
50	PX2KW	1RA/MF	15.0	50.8	115	41.0	41.3	40.4	53.0	2.0	2.5	70.1	77.1	106.7	1.930
63S	PX2KW	1RA/MF	15.0	63.5	115	47.9	48.4	45.6	59.4	2.0	2.5	75.0	82.5	101.2	2.160
63	PX2KW	1RA/MF	15.0	63.5	115	53.7	54.0	54.6	65.8	2.0	2.5	80.0	88.0	99.3	2.220
75S	PX2KW	1RA/MF	15.0	76.2	140	59.9	60.2	59.0	72.0	2.0	2.5	90.0	99.0	114.3	3.650
75	PX2KW	1RA/MF	15.0	76.2	140	64.2	64.2	66.7	78.4	2.5	3.0	99.0	100.0	115.8	4.100

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
Examples: 32PX2KW1RA/MF = Brass, 50SPX2KW1RA/MF5 = Nickel Plated Brass, 25PX2KW1RA/MF4 = Stainless Steel
Dimensions are displayed in millimetres unless otherwise stated

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary, please see supplementary technical data sheet.

AMERICAS HAZARDOUS LOCATION CABLE GLANDS

With CMP's global network covering the USA and Canada, we are able to understand the ever-changing requirements of industries in all areas of the globe.

The products on the following pages have been designed, engineered and manufactured for use in hazardous (classified) and ordinary locations under the NEC (National Electrical Code) and CEC (Canadian Electrical Code) installation standards.

The range is versatile enough to meet virtually all applications, to cover all types of non-armoured flexible cables, cords and tray cables, including; TC-ER-HL and Type P and all armoured cables types, including; MC, MC-HL, Interlocked, Teck, Braid armoured shipboard and served wire armour.

CMP's hazardous (classified) location cable glands comply with the prevailing UL, ISO, ANSI, CSA, and IEC standards and meet the NEC, CEC and IEC installation code requirements to provide complete global solutions.

The cable glands in the following section are shown in nickel plated brass. Alternative materials are available. The dimensions are shown in inches.

An Americas catalogue is available on request.

HOW TO ORDER AMERICAS CABLE GLANDS

On each of the main cable gland product pages in this catalogue you will find a cable gland selection table which includes the part number for ordering purposes. The part number is composed of the CMP size, type number, and standard suffix.

The default material is nickel plated brass and the thread type is NPT. The basic part number would reflect this unless one or more suffixes are added to the part number, changing the material or the thread type and size, as demonstrated below.

'Standard' cable gland with 'global' certification marking does not include TC RU (Russia, Kazakhstan) or INMETRO (Brazilian) certification details.

For ordering TC, TMC2 and TMC2X please see page 144.

For ordering TMC and TMCX please see product pages 145 to 146.

Alternatively, please contact CMP Products for all ordering queries.

A CMP Products size 20 T3CDS cable gland in nickel plated brass with a ½" NPT entry thread ordering example is shown below.

EXAMPLE ORDERING

20 T3CDS	1	RA	5	3	1
Size Product Type	Supply type	Suffix	Material	Entry thread type	Entry thread size
	Cable gland	Standard cable glands	Nickel Plated Brass	NPT	1/2"

CABLE GLAND SIZE / TYPE	SUPPLY TYPE		CMP OPTION SUFFIX***		MATERIAL		ENTRY THREAD TYPE		ENTRY THREAD SIZE**				
										METRIC (REFERENCE ONLY)	NPT / BSP / NPSM	IMPERIAL	PG
e.g. 20T3CDS	1	Cable Gland	RA	Standard Cable Gland	0 or *	Brass	*	Metric	1A	-	3/8"	1/2"	7
e.g. 40PX2KX			EX	RapidEx Pack	1	Aluminum	1	Imperial Electrical Thread (E.T)	1	M16	1/2"	5/8"	9
e.g. 50SC2KX			RA/B	Brazilian Certified Cable Gland	2	Nylon	2	PG	2	M20	3/4"	3/4"	11
			RU	TC RU Certified Cable Gland	3	Mild Steel	3	NPT	3	M25	1"	1"	13.5
					4	Stainless Steel	4	BSPP	4	M32	1 1/4"	1 1/4"	16
					5	Nickel Plated Brass	5	NPSM	5	M40	1 1/2"	1 1/2"	21
							6	BSPT	6	M50	2"	2"	29
									7	M63	2 1/2"	2 1/2"	36
									8	M75	3"	3"	42
									9	M90	3 1/2"	3 1/2"	48
									10	M100	4"	4"	-
									11	M115	-	-	-
									12	M130	5"	5"	-

* No suffix required when brass metric cable glands are ordered. Digit 0 to be used for material code only when the thread type is not metric.

** Other thread sizes available upon request.

*** 'Standard' cable gland with 'global' certification marking does not include TC RU (Russia, Kazakhstan) or INMETRO (Brazilian) certification details.

EXAMPLE ORDERING

TC-	**100**	**A**	**079**	No further reference required
Type	1”	Aluminum	0.79”	
TMC2X-	**050**	**NB**	**099**	**X**
Type	”	Nickel Plated Finish	0.99”	Complete kit with RapidEx
TMC2-	**075**	**SS**	**075**	No further reference required
Type	”	Stainless Steel	0.75”	

CABLE GLAND TYPE	-	THREAD ORDER REFERENCE*		MATERIAL		MAX CABLE JACKET DIAMETER (TMC2, TMC2X)		MAX CABLE DIAMETER (TC)		SUPPLY TYPE	
TMC2X	-	050	½”	A	Aluminum	075	0.75”	028	0.28”	X	with RapidEx** (TMC2X only)
TMC2	-	075	¼”	SS	Stainless Steel	099	0.99”	055	0.55”		
TC	-	100	1”	NB	Nickel Plated Brass	118	1.18”	079	0.79”		
		125	1 ¼”			137	1.37”	104	1.04”		
		150	1½”			162	1.62”	127	1.27”		
		200	2”			190	1.90”	150	1.50”		
		250	2 ½”			200	2.00”	174	1.74”		
		300	3”			233	2.33”	197	1.97”		
		350	3 ½”			272	2.72”	220	2.20”		
		400	4”			325	3.25”	244	2.44”		
						376	3.76”	268	2.68”		
						425	4.25”	315	3.15”		
								354	3.54”		

* Other thread types and sizes available upon request.

** Supplied in pack with RapidEx resin.

TMC

TMC GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION CABLE GLAND

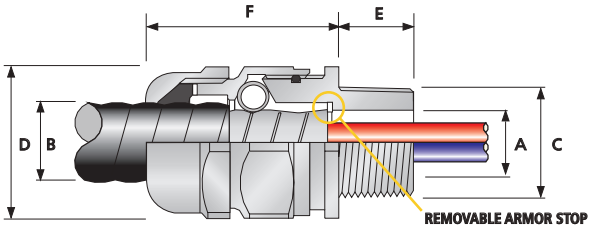
FOR MC, MC-HL, INTERLOCKED & TECK ARMORED CABLES

- Simple, sequential installation process
- No disassembly required
- Integral protected deluge seal
- Low Impedance Copper Plated Stainless Steel 360° Grounding Spring
- -60°C to +130°C (-76˚F to +266˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- O-ring face seal supplied with Aluminum glands
- SOLO LSF Halogen Free Shrouds also available on request

IP66 | NEMA 4X | EMC | +130 °C / -60 °C | AEx e / Ex e | AEx t / Ex t

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
NEMA RATING**	Type 4X
CABLE GLAND MATERIAL	Copper Free Aluminum (<0.4%), Electroless Nickel Plated Brass, Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Corrugated & Interlocked Metal Clad Armor (MC) or TECK90, Continuously Welded Metal Clad Armor (MC-HL), ACIC-HL, ACWU90-HL, RC90-HL, RA90-HL
ARMOR CLAMPING	Low Impedance Copper Plated Stainless Steel 360° Grounding Spring
SEALING TECHNIQUE	CMP Load Retention Seal
SEALING AREA(S)	Cable Outer Jacket

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444
** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1337X	IECEx CERTIFICATE	IECEx CML 18.0184X
UKEX CERTIFICATE	CML 21UKEX1261X		
CODE OF PROTECTION	Ex II 2G 1D, Ex eb II Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex eb II Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,7, 31	COMPLIANCE STANDARDS	IEC 60079-0,7,31
cCSAus CERTIFICATE	1129339		
CSAus CODE OF PROTECTION	Class II, Div 1 and 2, Groups E,F, and G; Class III, Div 1 and 2; Encl. Types 3,4, and 4X; Ex e II; Class I, Zone 1, AEx e II		
cCSA CODE OF PROTECTION	Class II, Div 1 and 2, Groups E,F, and G; Class III, Div 1 and 2; Encl. Types 3, 4, and 4X; Ex e II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0-10,18.3-04,25-1966,174-M1984,94-M91, CAN/CSA-C22.2 No.60079-0, CAN/CSA-E60079-7:07, ANSI/UL 514B, ANSI/UL 50, ANSI/UL 60079-0,7		
UL CERTIFICATE	E256366		
CODE OF PROTECTION	Class I, Zone 1, AEx e II; Class I, Zone 2, AEx e II		
COMPLIANCE STANDARDS	UL 514B, UL 60079-0,7, UL 2225		
ECAS CERTIFICATE	20-02-05628	UkrSEPRO CERTIFICATE	СЦ 19.0371X
CCOE / PESO (INDIA) CERTIFICATE	P444949		
CCC CERTIFICATE	2020322313003429		
MARINE APPROVALS	LRS: 01/00172 , DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

Please note the following installation requirements: 1) Where Explosionproof enclosures are being used the TMC must be installed with an approved pouring or compound sealing fitting. In Division 2 locations the TMC can be fitted directly to an enclosure which has no source of ignition in accordance with NEC/CEC requirements. 2) Glands with NPT entry threads are suitable for both Divisions and Zones. 3) Glands with Metric entry threads are suitable for Zones only unless fitted with an approved NPT male adaptor in accordance with CEC requirements.

ORDER REFERENCE (NPT)			ENTRY THREAD 'C'		MINIMUM THREAD LENGTH 'E'		CABLE ARMOR DIAMETER 'A'				CABLE JACKET DIAMETER 'B'		NOMINAL ASSEMBLY LENGTH 'F'	MAX		SHROUD	WEIGHT (oz)
							END STOP IN		END STOP OUT					ACROSS FLATS 'D'	ACROSS CORNERS 'D'		
ALUMINUM	NICKEL PLATED BRASS	STAINLESS STEEL	NPT	METRIC	NPT	METRIC	MIN	MAX	MIN	MAX	MIN	MAX					
TMC050SA	TMC050SNB	TMC050SSS	½"	M20	0.78	0.59	No Stop	No Stop	0.34	0.50	0.35	0.55	1.83	1.20	1.32	PVC06	7.90
TMC050A	TMC050NB	TMC050SS	½"	M20	0.78	0.59	No Stop	No Stop	0.51	0.67	0.55	0.79	2.06	1.42	1.56	PVC09	9.91
TMC075A	TMC075NB	TMC075SS	¾"	M25	0.80	0.59	0.59	0.76	0.76	0.92	0.67	1.04	2.09	1.61	1.78	PVC10	11.61
TMC100A	TMC100NB	TMC100SS	1"	M32	0.98	0.59	0.78	0.97	0.97	1.15	0.91	1.27	2.24	1.97	2.17	PVC13	17.53
TMC125A	TMC125NB	TMC125SS	1 ¼"	M40	1.01	0.59	1.08	1.23	1.23	1.39	1.16	1.50	2.22	2.17	2.38	PVC15	20.92
TMC150A	TMC150NB	TMC150SS	1 ½"	M50	1.03	0.59	1.32	1.46	1.46	1.62	1.40	1.74	2.31	2.36	2.60	PVC18	24.45
TMC200SA	TMC200SNB	TMC200SSS	2"	M50	1.06	0.59	1.51	1.68	1.68	1.85	1.58	1.97	2.52	2.76	3.03	PVC21	42.33
TMC200A	TMC200NB	TMC200SS	2"	M63	1.06	0.59	1.77	1.93	1.93	2.09	1.86	2.21	2.49	2.95	3.25	PVC23	38.80
TMC250SA	TMC250SNB	TMC250SSS	2 ½"	M75	1.57	0.59	2.05	2.16	2.16	2.32	2.08	2.44	2.73	3.15	3.47	PVC25	59.97
TMC250A	TMC250NB	TMC250SS	2 ½"	M75	1.57	0.59	2.25	2.41	2.41	2.55	2.33	2.68	2.84	3.35	3.68	PVC27	56.48
TMC300A	TMC300NB	TMC300SS	3"	M90	1.63	0.59	2.54	2.78	2.78	2.97	2.62	3.13	3.87	4.33	4.76	LSF32	123.46
TMC350A	TMC350NB	TMC350SS	3 ½"	M100	1.69	0.95	2.91	3.29	3.29	3.49	2.99	3.83	4.63	5.25	5.78	LSF34	236.34

Order code example: TMC250SS "TMC" (Gland Type) - "250" (2½" NPT Thread) - "SS" (Material Stainless Steel)
Dimensions are displayed in inches unless otherwise stated
For 4" TMC cable glands please contact CMP

TMCX

TMCX GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION BARRIER CABLE GLAND

FOR MC, MC-HL, INTERLOCKED & TECK ARMORED CABLES

- Simple, sequential installation process
- Compound barrier type flameproof seal
- Integral protected deluge seal
- Low Impedance Copper Plated Stainless Steel 360° Grounding Spring
- Disconnectable, union design feature
- -60˚C to +85˚C (-76˚F to +185˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX

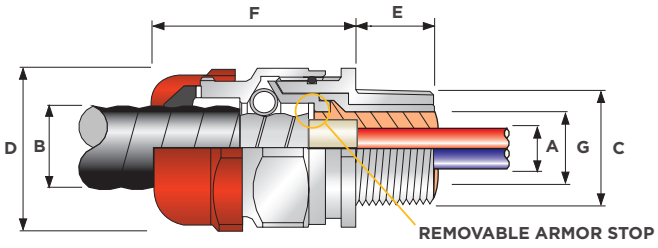
IP66 NEMA 4X

+85˚C / -60˚C

AEx d Ex d | AEx e Ex e | AEx t Ex t

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
NEMA RATING**	Type 4X
CABLE GLAND MATERIAL	Copper Free (<0.4%) Aluminum, Stainless Steel, Electroless Nickel Plated Brass
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
CABLE TYPE	Corrugated and Interlocked Metal Clad Armor (MC) or TECK90, Continuously Welded Metal Clad Armor (MC-HL), ACIC-HL, ACWU90-HL, RC90-HL, RA90-HL
ARMOR CLAMPING	Low Impedance Copper Plated Stainless Steel 360° Grounding Spring
JACKET SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Inner Compound Barrier and Cable Outer Jacket

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444.
** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1337X	IECEx CERTIFICATE	IECEx CML 18.0184X
UKEX CERTIFICATE	CML 21UKEX1261X		
CODE OF PROTECTION	II 2G 1D, Ex db IIC, Ex eb IIC, Ex ta IIIC Da	CODE OF PROTECTION	Ex db IIC, Ex eb II, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE	1129339		
CSAus CODE OF PROTECTION	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 1 and 2, Groups E,F, and G; Class III, Div 1 and 2; Encl. Types 3, 4, and 4X; Class I, Zone 1, AEx d IIC; AEx e II		
cCSA CODE OF PROTECTION	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 1 and 2, Groups E,F, and G; Class III, Div 1 and 2; Encl. Types 3,4, and 4X; Ex d IIC; Ex e II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0-10,18.3-04,25-1966,174-M1984,94-M91, CAN/CSA-C22.2 No.60079-0,1:, ANSI/UL 514B, ANSI/UL 50, ANSI/UL 60079-0,1,7, CAN/CSA-E60079-7:07		
UL CERTIFICATE	E161256, E256366		
CODE OF PROTECTION	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Class I, Zone 1, AEx d IIC		
COMPLIANCE STANDARDS	UL 514B, UL 2225, IEC 60529		
ECAS CERTIFICATE	20-02-05628	UkrSEPRO CERTIFICATE	CЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003429		
MARINE APPROVALS	LRS:01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

ORDER REFERENCE (NPT)			ENTRY THREAD 'C'		MINIMUM THREAD LENGTH 'E'		CABLE ARMOR DIAMETER 'A'				CABLE JACKET DIAMETER 'B'		NOMINAL ASSEMBLY LENGTH 'F'	MAX		SHROUD	WEIGHT (oz)
ALUMINUM	NICKEL PLATED BRASS	STAINLESS STEEL	NPT	METRIC	NPT	METRIC	ARMOR STOP IN		ARMOR STOP OUT		MIN	MAX		ACROSS FLATS 'D'	ACROSS CORNERS 'D'		
							MIN	MAX	MIN	MAX							
TMCX050SA	TMCX050SNB	TMCX050SSS	½"	M20	0.78	0.59	No Stop	No Stop	0.34	0.50	0.35	0.55	1.83	1.20	1.32	PVC06	7.90
TMCX050A	TMCX050NB	TMCX050SS	½"	M20	0.78	0.59	No Stop	No Stop	0.51	0.67	0.55	0.79	2.06	1.42	1.56	PVC09	9.91
TMCX075A	TMCX075NB	TMCX075SS	¾"	M25	0.80	0.59	0.59	0.76	0.76	0.92	0.67	1.04	2.09	1.61	1.78	PVC10	11.61
TMCX100A	TMCX100NB	TMCX100SS	1"	M32	0.98	0.59	0.78	0.97	0.97	1.15	0.91	1.27	2.24	1.97	2.17	PVC13	17.53
TMCX125A	TMCX125NB	TMCX125SS	1 ¼"	M40	1.01	0.59	1.08	1.23	1.23	1.39	1.16	1.50	2.22	2.17	2.38	PVC15	20.92
TMCX150A	TMCX150NB	TMCX150SS	1 ½"	M50	1.03	0.59	1.32	1.46	1.46	1.62	1.40	1.74	2.31	2.36	2.60	PVC18	24.45
TMCX200SA	TMCX200SNB	TMCX200SSS	2"	M50	1.06	0.59	1.51	1.68	1.68	1.85	1.58	1.97	2.52	2.76	3.03	PVC21	42.33
TMCX200A	TMCX200NB	TMCX200SS	2"	M63	1.06	0.59	1.77	1.93	1.93	2.09	1.86	2.21	2.49	2.95	3.25	PVC23	38.80
TMCX250SA	TMCX250SNB	TMCX250SSS	2 ½"	M75	1.57	0.59	2.05	2.16	2.16	2.32	2.08	2.44	2.73	3.15	3.47	PVC25	59.97
TMCX250A	TMCX250NB	TMCX250SS	2 ½"	M75	1.57	0.59	2.25	2.41	2.41	2.55	2.33	2.68	2.84	3.35	3.68	PVC27	56.48
TMCX300A	TMCX300NB	TMCX300SS	3"	M90	1.63	0.95	2.54	2.78	2.78	2.97	2.62	3.13	3.87	4.33	4.76	LSF32	123.46
TMCX350A	TMCX350NB	TMCX350SS	3 ½"	M100	1.69	0.95	2.91	3.29	3.29	3.49	2.99	3.83	4.52	5.25	5.78	LSF34	236.34

Order code example: TMCX250SS "TMC" (Gland Type) - "250" (2 ½" NPT Thread) - "SS" (Material Stainless Steel)
Dimensions are displayed in inches unless otherwise stated
For 4" TMCX cable glands please contact CMP

TMC2

TMC2 ALUMINUM GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION CABLE GLAND

FOR MC, MC-HL, INTERLOCKED & TECK ARMORED CABLES

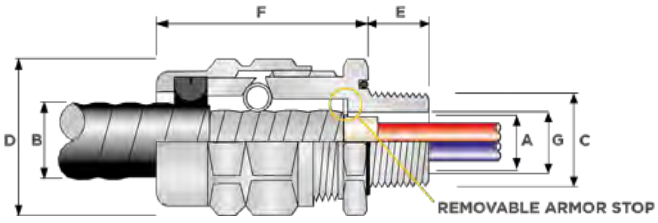
- Simplified two part design
- Compact slim profile
- Independent sealing and armor clamping
- Simple, sequential installation process
- No disassembly required
- O-ring face seal as standard
- Hub not required
- Low Impedance Copper Plated Stainless Steel 360° Grounding Spring
- -60˚C to +110˚C (-76˚F to +230˚F)
- Globally marked, cCSAus, IECEx, ATEX and UKEX

IP66 | NEMA 4X | EMC | +110˚C / -60˚C | AEx e / Ex e | AEx t / Ex t

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
NEMA RATING**	Type 4X
CABLE GLAND MATERIAL	Copper Free (<0.4%) Aluminum, Stainless Steel, Electroless Nickel Plated Brass
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Corrugated & Interlocked Metal Clad Armor (MC) or TECK90, Continuously Welded Metal Clad Armor (MC-HL), ACIC-HL, ACWU90-HL, RC90-HL, RA90-HL
ARMOR CLAMPING	Low Impedance Copper Plated Stainless Steel 360° Grounding Spring
JACKET SEALING TECHNIQUE	CMP Load Retention Seal
SEALING AREA(S)	Cable Outer Jacket

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1335X	IECEx CERTIFICATE	IECEx CML 18.0192X
UKEX CERTIFICATE	CML 21UKEX1262X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,7	COMPLIANCE STANDARDS	IEC 60079-0,7,31
cCSAus CERTIFICATE	2194053		
CSAus CODE OF PROTECTION	Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Encl. Type 4X; Ex e II; Class I, Zone 1, AEx e II; AEx ta IIIC		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Encl. Type 4X; Ex e II; Class I, Zone 1, AEx e II; AEx ta IIIC Class I, Zone 1, AEx e II; AEx ta IIC		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0-10,18-04,25-1966,30-M1986,174-M1984,94-M91, ANSI/UL 2225, ANSI/UL 50, ANSI/UL 514B, CAN/CSA-E61241-1-1, CAN/CSA-C22.2 No.60079-0:07,7:07		
ECAS CERTIFICATE	20-02-06425	UkrSEPRO CERTIFICATE	CЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003284		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-2022051-PDA, BV: 43180		

ORDER REFERENCE (NPT SUFFIX REQUIRED)			ENTRY THREAD 'C'		MINIMUM THREAD LENGTH 'E'	CABLE ARMOR DIAMETER 'A'				CABLE JACKET DIAMETER 'B'		THRU BORE 'G'	ACROSS FLATS 'D'	ACROSS CORNERS 'D'	NOMINAL ASSEMBLY LENGTH 'F'	SHROUD	APPROX WEIGHT ALUMINUM (oz)
						ARMOR STOP IN		ARMOR STOP OUT									
ALUMINUM	NICKEL PLATED BRASS	STAINLESS STEEL	NPT	NPT OPTION		MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX	MAX			
TMC2050A075	TMC2050NB075	TMC2050SS075	½"	-	0.78	0.42	0.55	0.55	0.63	0.50	0.75	0.51	1.20	1.32	2.44	PVC06	2.29
TMC2075A075	TMC2075NB075	TMC2075SS075	-	¾"	0.80	0.42	0.55	0.55	0.63			0.51				PVC09	
TMC2050A099	TMC2050NB099	TMC2050SS099	½"	-	0.78	0.60	0.65	0.65	0.89	0.69	0.99	0.61	1.48	1.63	2.96	PVC09	3.00
TMC2075A099	TMC2075NB099	TMC2075SS099	-	¾"	0.80	0.60	0.78	0.78	0.89			0.75					
TMC2075A118	TMC2075NB118	TMC2075SS118	¾"	-	0.80	0.79	0.86	0.86	1.10	0.87	1.18	0.82	1.81	1.99	3.15	PVC11	5.11
TMC2100A118	TMC2100NB118	TMC2100SS118	-	1"	0.98	0.79	0.98	0.98	1.10			0.95					
TMC2100A137	TMC2100NB137	TMC2100SS137	1"	-	0.98	0.94	1.08	1.08	1.28	1.02	1.37	1.04	2.05	2.26	3.55	PVC15	6.70
TMC2125A137	TMC2125NB137	TMC2125SS137	-	1 ¼"	1.01	0.94	1.18	1.18	1.28			1.14					
TMC2125A162	TMC2125NB162	TMC2125SS162	1 ¼"	-	1.01	1.22	1.35	1.35	1.50	1.30	1.62	1.31	2.36	2.60	3.59	PVC18	8.82
TMC2150A162	TMC2150NB162	TMC2150SS162	-	1 ½"	1.03	1.22	1.42	1.42	1.50			1.38					
TMC2125A190	TMC2125NB190	TMC2125SS190	1 ¼"	-	1.01	-	-	1.51	1.72	1.57	1.90	1.37	2.56	2.82	3.59	PVC37	9.45
TMC2150A190	TMC2150NB190	TMC2150SS190	-	1 ½"	1.03	-	-	1.51	1.72			1.54					
TMC2150A200	TMC2150NB200	TMC2150SS200	1 ½"	-	1.03	1.57	1.70	1.70	1.88	1.65	2.00	1.61	2.75	3.03	3.76	PVC21	11.06
TMC2200A200	TMC2200NB200	TMC2200SS200	-	2"	1.06	1.57	1.70	1.70	1.88			1.65					
TMC2150A233	TMC2150NB233	TMC2150SS233	-	1 ½"	1.03	-	-	1.81	2.21	1.90	2.33	1.61	2.95	3.25	3.97	PVC23	12.77
TMC2200A233	TMC2200NB233	TMC2200SS233	2"	-	1.06	-	-	1.81	2.21			2.03					
TMC2250A233	TMC2250NB233	TMC2250SS233	-	2 ½"	1.57	-	-	1.81	2.21			2.03	3.54	3.89		PVC28	
TMC2200A272	TMC2200NB272	TMC2200SS272	-	2"	1.06	2.14	2.46	2.17	2.61	2.27	2.72	2.07	3.54	3.89	4.10	PVC28	24.69
TMC2250A272	TMC2250NB272	TMC2250SS272	2 ½"	-	1.57	2.14	2.46	2.46	2.61			2.40					
TMC2300A272	TMC2300NB272	TMC2300SS272	-	3"	1.63	2.14	2.46	2.46	2.61			2.40	4.33	4.76		PVC31	
TMC2300A325	TMC2300NB325	TMC2300SS325	3"	-	1.63	2.49	2.78	2.78	2.97	2.62	3.25	2.72	4.33	4.76	4.67	PVC31	42.68
TMC2350A325	TMC2350NB325	TMC2350SS325	-	3 ½"	1.69	2.49	2.78	2.78	2.97			2.72					
TMC2350A376	TMC2350NB376	TMC2350SS376	3 ½"	-	1.69	2.95	3.45	3.45	3.54	3.16	3.76	3.38	4.84	5.32	4.95	LSF33	53.44
TMC2400A376	TMC2400NB376	TMC2400SS376	-	4"	1.73	2.95	3.45	3.45	3.54			3.38					
TMC2400A425	TMC2400NB425	TMC2400SS425	4"	-	1.73	-	-	3.56	3.94	3.70	4.25	3.59	5.23	5.75	5.16	LSF34	59.19

Order code example: TMC2050A075 - "TMC2" (Type Gland) - "050" (½" NPT Thread) - 'A' (Material Aluminum) - "075"(Max Cable Diameter 0.75")

Dimensions are displayed in inches unless otherwise stated

TMC2X RAPID Ex

GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION BARRIER CABLE GLAND

FOR MC, MC-HL, INTERLOCKED & TECK ARMORED CABLES

- RapidEx liquid pour sealing system reduces installation time
- Simplified two part design
- Compact slim profile
- Independent sealing and armor clamping
- Simple, sequential installation process
- Low impedance copper plated stainless steel 360° grounding spring
- Disconnectable, union design feature
- -60°C to +85°C (-76˚F to +185˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX

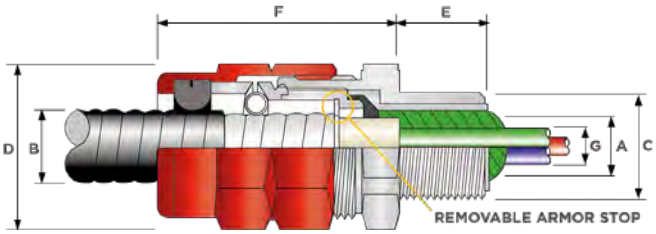
IP66 NEMA 4X EMC +85˚C -60˚C

AEx d Ex d | AEx e Ex e | AEx t Ex t

SUPPLIED IN PACK WITH RAPIDEX RESIN

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
NEMA RATING**	Type 4X
CABLE TYPE	Corrugated & Interlocked Metal Clad Armor (MC) or TECK90, Continuously Welded Metal Clad Armor (MC-HL), ACIC-HL, ACWU90-HL, RC90-HL, RA90-HL
ARMOR CLAMPING	Low Impedance Copper Plated Stainless Steel 360° Grounding Spring
JACKET SEALING TECHNIQUE	CMP Load Retention Seal
SEALING AREA(S)	RapidEx Liquid Resin, Cable Outer Jacket
CABLE GLAND MATERIAL	Copper Free (<0.4%) Aluminum, Stainless Steel, Electroless Nickel Plated Brass

*Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444
** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.



PATENT GRANTED: ES2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153843, US 10193321, US 1034078

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1336X	IECEx CERTIFICATE	IECEx CML 18.0193X
UKEX CERTIFICATE	CML 21UKEX1263X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC, Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE	2194053		
CSAus CODE OF PROTECTION	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Encl. Type 4X; Ex d IIC; Ex e II; Class I, Zone 1, AEx d IIC; AEx e II; AEx ta IIIC		
cCSA CODE OF PROTECTION	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Encl. Type 4X; Ex d IIC; Ex e II; Class I, Zone 1, AEx d IIC; AEx e II; AEx ta IIIC		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0-M91,18-04, 25-1966,30-M1986,174-M1984,94-M91, CAN/CSA-60079-0,1,7, CAN/CSA-E61241-1-1, ANSI/UL 514B, ANSI/UL 50, ANSI/UL 2225		
cULus CERTIFICATE (075-162)	E161256		
CODE OF PROTECTION	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2		
COMPLIANCE STANDARDS	UL2225, UL514B, CSA C22.2 No. 174-18, 18.3-12		
ECAS CERTIFICATE	20-02-06423	UkrSEPRO CERTIFICATE	СЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003283		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-2022051-PDA, BV: 43180		

ORDER REFERENCE (NPT WITH RAPIDEX RESIN)			ENTRY THREAD 'C'		MINIMUM THREAD LENGTH 'E'	CABLE ARMOR DIAMETER 'A'				CABLE JACKET DIAMETER 'B'		MAX OVER CONDUCTORS 'G'	ACROSS FLATS 'D'	ACROSS CORNERS 'D'	NOMINAL ASSEMBLY LENGTH 'F'	SHROUD	APPROX WEIGHT ALUMINUM (oz)
						ARMOR STOP IN		ARMOR STOP OUT									
ALUMINUM	NICKEL PLATED BRASS	STAINLESS STEEL	NPT	NPT OPTION		MIN	MAX	MIN	MAX	MIN	MAX		MAX	MAX			
TMC2X-050A075X	TMC2X-050NB075X	TMC2X-050SS075X	½"	-	0.78	0.42	0.55	0.55	0.63	0.500	0.750	0.51	1.20	1.32	2.44	PVC06	2.29
TMC2X-075A075X	TMC2X-075NB075X	TMC2X-075SS075X	-	¾"	0.80	0.42	0.55	0.55	0.63			0.51				PVC09	
TMC2X-050A099X	TMC2X-050NB099X	TMC2X-050SS099X	½"	-	0.78	0.60	0.65	0.65	0.89	0.690	0.990	0.51	1.48	1.63	2.96	PVC09	3.00
TMC2X-075A099X	TMC2X-075NB099X	TMC2X-075SS099X	-	¾"	0.80	0.60	0.78	0.78	0.89			0.71					
TMC2X-075A118X	TMC2X-075NB118X	TMC2X-075SS118X	¾"	-	0.80	0.79	0.86	0.86	1.10	0.870	1.180	0.71	1.81	1.99	3.15	PVC11	5.11
TMC2X-100A118X	TMC2X-100NB118X	TMC2X-100SS118X	-	1"	0.98	0.79	0.98	0.98	1.10			0.94					
TMC2X-100A137X	TMC2X-100NB137X	TMC2X-100SS137X	1"	-	0.98	0.94	1.08	1.08	1.28	1.020	1.370	0.94	2.05	2.26	3.55	PVC15	6.70
TMC2X-125A137X	TMC2X-125NB137X	TMC2X-125SS137X	-	1 ¼"	1.01	0.94	1.18	1.18	1.28			1.20					
TMC2X-125A162X	TMC2X-125NB162X	TMC2X-125SS162X	1 ¼"	-	1.01	1.22	1.35	1.35	1.50	1.300	1.620	1.20	2.36	2.60	3.59	PVC18	8.82
TMC2X-150A162X	TMC2X-150NB162X	TMC2X-150SS162X	-	1 ½"	1.03	1.22	1.42	1.42	1.50			1.46					
TMC2X-125A190X	TMC2X-125NB190X	TMC2X-125SS190X	1 ¼"	-	1.01	-	-	1.51	1.72	1.570	1.900	1.20	2.56	2.82	3.59	PVC37	9.45
TMC2X-150A190X	TMC2X-150NB190X	TMC2X-150SS190X	-	1 ½"	1.03	-	-	1.51	1.72			1.46					
TMC2X-150A200X	TMC2X-150NB200X	TMC2X-150SS200X	1 ½"	-	1.03	1.57	1.70	1.70	1.88	1.650	2.000	1.46	2.75	3.03	3.76	PVC21	11.06
TMC2X-200A200X	TMC2X-200NB200X	TMC2X-200SS200X	-	2"	1.06	1.57	1.70	1.70	1.88			1.63					
TMC2X-150A233X	TMC2X-150NB233X	TMC2X-150SS233X	-	1 ½"	1.03	-	-	1.81	2.21	1.910	2.330	1.46	2.95	3.25	3.97	PVC23	12.77
TMC2X-200A233X	TMC2X-200NB233X	TMC2X-200SS233X	2"	-	1.06	-	-	1.81	2.21			1.90					
TMC2X-250A233X	TMC2X-250NB233X	TMC2X-250SS233X	-	2 ½"	1.57	-	-	1.81	2.21			2.13	3.54	3.89		PVC28	
TMC2X-200A272X	TMC2X-200NB272X	TMC2X-200SS272X	-	2"	1.06	2.14	2.46	2.17	2.61	2.270	2.720	1.90	3.54	3.89	4.10	PVC28	24.69
TMC2X-250A272X	TMC2X-250NB272X	TMC2X-250SS272X	2 ½"	-	1.57	2.14	2.46	2.46	2.61			2.13					
TMC2X-300A272X	TMC2X-300NB272X	TMC2X-300SS272X	-	3"	1.63	2.14	2.46	2.46	2.61			2.55	4.33	4.76		PVC31	
TMC2X-300A325X	TMC2X-300NB325X	TMC2X-300SS325X	3"	-	1.63	2.49	2.78	2.78	2.97	2.620	3.250	2.98	4.33	4.76	4.67	PVC31	42.68
TMC2X-350A325X	TMC2X-350NB325X	TMC2X-350SS325X	-	3 ½"	1.69	2.49	2.78	2.78	2.97			2.98					
TMC2X-350A376X	TMC2X-350NB376X	TMC2X-350SS376X	3 ½"	-	1.69	2.95	3.45	3.45	3.54	3.160	3.760	3.38	4.84	5.32	4.95	LSF33	53.44
TMC2X-400A376X	TMC2X-400NB376X	TMC2X-400SS376X	-	4"	1.73	2.95	3.45	3.45	3.54			3.38					
TMC2X-400A425X	TMC2X-400NB425X	TMC2X-400SS425X	4"	-	1.73	-	-	3.56	3.94	3.700	4.250	3.38	5.23	5.75	5.16	LSF34	59.19

Order code example: TMC2X-050A075 - "TMC2X" (Gland Type) - "050" (½" NPT Thread) - 'A' (Material Aluminum) - "075" (Max Cable Diameter 0.75")

TMC2X*075-162 cULus Listed

Dimensions are displayed in inches unless otherwise stated

SENTINEL

IN HARSH CORROSIVE ENVIRONMENTS, PROTECTION OF EQUIPMENT FROM THE EFFECTS OF CORROSION IS OF PARAMOUNT IMPORTANCE

Cable glands manufactured from zinc plated steel, aluminum, nickel plated brass or stainless steel are all suitable for use in most industrial environments, with each material offering varying levels of protection against corrosion.

When subjected to harsh corrosive environments like those encountered in the marine, mining and petrochemical industries, cable glands can be exposed to some highly corrosive substances such as salt water (NaCl+H2O), potash (KCl:NaCl) and hydrogen sulphide (H2S) which can aggressively corrode the base materials.

To counter this attack, additional steps are taken to further protect the cable glands, including the application of PVC coating, PVC shrouds or even the use of cold shrink tube. Whilst these methods provide some level of additional protection, they all suffer from inherent drawbacks during installation and with identification, inspection and maintenance issues, which limits their effectiveness.

In many instances moisture and corrosive elements will penetrate any weak points, such as joints, or any areas perhaps damaged during installation, resulting in corrosion taking place beneath the coating which often goes undetected, resulting in costly equipment failure.

THE SENTINEL SOLUTION

The Sentinel corrosion shield has been developed in conjunction with some of CMP's industrial clients to provide an engineering solution to these issues. The concept is a simple-to-install, rigid, mechanical device that fully encapsulates and seals the cable gland from the surrounding environment.

The Sentinel corrosion shield has been rigorously tested for mechanical strength providing an ultra-high impact resistance of 20 joules at -60°C/-76°F;

This corrosion shield has also been tested against liquid or dust ingress, providing IP66, IP67, IP68, NEMA 4X, 6 and 6P levels of protection.

The onerous tests for this product against corrosion resistance include a 600 hour salt spray (ASTM B117), 600 hour potash immersion and UV exposure assessment.

The Sentinel corrosion shield incorporates a combination of existing, industry proven, CMP sealing technologies, along with a unique new interface seal design, developed specifically for this application, which allows installation through clearance holes or metric and NPT threaded entries. This combination ensures complete protection on every installation with both interface seals provided as standard.

The fully, re-usable, simple design allows quick and easy installation with clear external marking that allows the user to easily identify the type and size of installed cable gland and is easily disconnected for inspection or maintenance.

The Sentinel corrosion shield is manufactured from low smoke and fume, zero halogen polyamide, providing a cost-effective, superior corrosion resistance solution that is guaranteed to extend the life-span of the cable gland and equipment.

Example of corrosion on Sentinel cable gland

SENTINEL

TMC2
TMC2X

THE ULTIMATE PROTECTIVE SHIELD IN HARSH CORROSIVE ENVIRONMENTS FOR TMC2 & TMC2X

Pictured with TMC2 installed

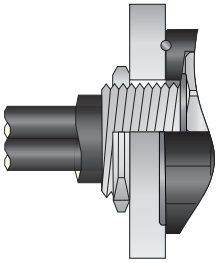
- Offers long term reliability of cable terminations
- Extends the life span of the cable gland
- Quick and easy installation, no special tools required
- Clear, visible external identification
- Fully inspectable
- Fully resistant to potash, UV and salt spray
- Low smoke & fume, zero halogen, flame retardant
- Supplied with clearance hole and threaded entry interface seals

IP66 IP67 IP68 NEMA 4X

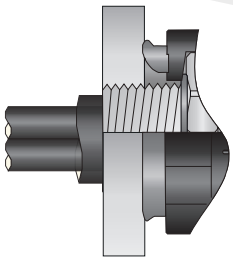
DELUGE PROTECTED +230°F ↑ -76°F

The Sentinel corrosion shield is a rigid mechanical protection device which encapsulates the cable gland, providing a high integrity seal. The Sentinel seals the interface between the equipment and the gland for both threaded and clearance holes. The robust outer environmental seal engages the outer sheath of the cable, providing an exceptional barrier to moisture, dust, corrosive substances and chemical agents that may attack the CMP cable gland.

The Sentinel corrosion shield reduces the need for periodic inspections. When required, inspections can be easily undertaken, facilitated by easy disconnection and re-connection of the corrosion shield to inspect the gland.

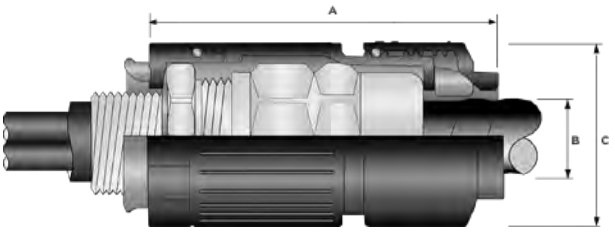


'O' ring equipment interface seal for clearance hole



Protruding equipment interface seal for threaded entries

TECHNICAL DATA	
SUITABLE CABLE GLANDS	TMC2, TMC2X
IMPACT RESISTANCE	20 joules at -60°C/-76°F
POTASH RESISTANCE	Independently tested (600 hour immersion)
SALT SPRAY RESISTANCE	Independently tested to ASTM B117 (600 hours constant spray)
NEMA RATING	NEMA 4X, 6 & 6P
INGRESS PROTECTION RATING	IP66, 67 & 68
CONTINUOUS OPERATING TEMPERATURE	-60°C to 110°C / -76°F to 230°F
PRODUCT MATERIAL	Low Smoke & Fume Polyamide
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer



SENTINEL ONLY ORDER CODE	ALUMINUM* TMC2 SENTINEL PACK ORDER CODE**	ALUMINUM* TMC2 ORDER CODE	ALUMINUM* TMC2X SENTINEL PACK ORDER CODE**	ALUMINUM* TMC2X ORDER CODE	NPT ENTRY THREAD	OUTER DIAMETER 'C'	OUTER JACKET SEALING RANGE 'B'		MAX ENVELOPE / PROTRUSION LENGTH 'A'
SEN-030-075	SENP-050A075	TMC2-050A075	SENXP-050A075	TMC2X-050A075	½"	1.88"	0.50"	0.75"	3.52"
	SENP-075A075	TMC2-075A075	SENXP-075A075	TMC2X-075A075	¾"	1.88"	0.50"	0.75"	3.52"
SEN-037-099	SENP-050A099	TMC2-050A099	SENXP-050A099	TMC2X-050A099	½"	2.16"	0.69"	0.99"	4.01"
	SENP-075A099	TMC2-075A099	SENXP-075A099	TMC2X-075A099	¾"	2.16"	0.69"	0.99"	4.01"
SEN-046-118	SENP-075A118	TMC2-075A118	SENXP-075A118	TMC2X-075A118	¾"	2.61"	0.87"	1.18"	4.37"
	SENP-100A118	TMC2-100A118	SENXP-100A118	TMC2X-100A118	1"	2.61"	0.87"	1.18"	4.37"
SEN-052-137	SENP-100A137	TMC2-100A137	SENXP-100A137	TMC2X-100A137	1"	2.91"	1.02"	1.37"	4.65"
	SENP-125A137	TMC2-125A137	SENXP-125A137	TMC2X-125A137	1-¼"	2.91"	1.02"	1.37"	4.65"
SEN-060-162	SENP-125A162	TMC2-125A162	SENXP-125A162	TMC2X-125A162	1-¼"	3.28"	1.30"	1.62"	4.80"
	SENP-150A162	TMC2-150A162	SENXP-150A162	TMC2X-150A162	1-½"	3.28"	1.30"	1.62"	4.80"
SEN-065-190	SENP-125A190	TMC2-125A190	SENXP-125A190	TMC2X-125A190	1-1/4"	3.44"	1.57"	1.90"	4.84"
	SENP-150A190	TMC2-150A190	SENXP-150A190	TMC2X-150A190	1-½"	3.44"	1.57"	1.90"	4.84"
Please contact CMP for 'Sentinel only' ordering information	SENP-150A200	TMC2-150A200	SENXP-150A200	TMC2X-150A200	1-½"	3.72"	1.65"	2.00"	4.99"
	SENP-200A200	TMC2-200A200	SENXP-200A200	TMC2X-200A200	2"	3.72"	1.65"	2.00"	4.99"
	SENP-150A233	TMC2-150NB233	SENXP-150A233	TMC2-150SS233	1-½"	3.92"	1.91"	2.33"	5.31"
	SENP-200A233	TMC2-200NB233	SENXP-200A233	TMC2-200SS233	2"	3.92"	1.91"	2.33"	5.31"
	SENP-250A233	TMC2-250NB233	SENXP-250A233	TMC2-250SS233	2-½"	3.92"	1.91"	2.33"	5.31"
	SENP-200A272	TMC2-200NB272	SENXP-200A272	TMC2-200SS272	2"	4.72"	2.27"	2.72"	5.43"
	SENP-250A272	TMC2-250NB272	SENXP-250A272	TMC2-250SS272	2-½"	4.72"	2.27"	2.72"	5.43"
	SENP-300A272	TMC2-300NB272	SENXP-300A272	TMC2-300SS272	3"	4.72"	2.27"	2.72"	5.43"
	SENP-300A325	TMC2-300NB325	SENXP-300A325	TMC2-300SS325	3"	5.51"	2.62"	3.25"	6.38"
	SENP-350A325	TMC2-350NB325	SENXP-350A325	TMC2-350SS325	3-½"	5.51"	2.62"	3.25"	6.38"
	SENP-350A376	TMC2-350NB376	SENXP-350A376	TMC2-350SS376	3-½"	6.20"	3.16"	3.76"	6.73"
	SENP-400A376	TMC2-400NB376	SENXP-400A376	TMC2-400SS376	4"	6.20"	3.16"	3.76"	6.73"
	SENP-400A425	TMC2-400NB425	SENXP-400A425	TMC2-400SS425	4"	6.71"	3.70"	4.25"	7.01"

All dimensions shown are in inches unless otherwise stated

*Aluminum ordering references shown, for Nickel Plated Brass please replace 'A' with 'NB' e.g SENP-050NB075

**Sentinel Pack includes: 1 CMP Cable Gland, 1 Sentinel Corrosion Shield

TC

TC GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION CABLE GLAND

FOR ALL TYPES OF UNARMORED TRAY CABLES, FLEXIBLE CABLES & CORD

- Aluminum, nickel plated brass or stainless steel design
- Increased cable range with removable insert
- Optional thread sizes
- -60˚C to +110˚C (-76˚F to +230˚F)
- Globally marked, cCSAus, IECEx, ATEX and UKEX
- Heavy duty design
- O-ring face seal as standard

IP66 IP67 IP68 NEMA 4X

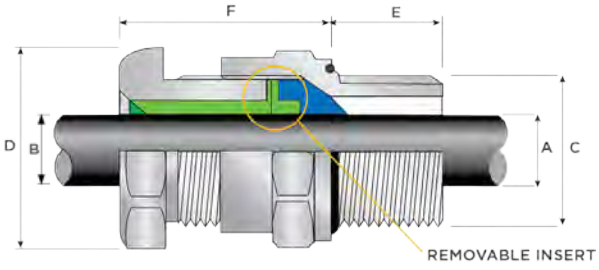
+110˚C / -60˚C

Ex d | AEx e / Ex e | AEx t / Ex t

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
NEMA RATING**	Type 4X
CABLE GLAND MATERIAL	Copper Free (<0.4%) Aluminum, Nickel Plated Brass, Stainless Steel
CABLE TYPE	Tray Cable and Cords, Unarmored / Braid (IEC)s
SEALING TECHNIQUE	CMP Displacement Seal with Removable Insert
SEALING AREA(S)	Cable Outer Jacket

* Mechanical and Electrical Classifications applied as per IEC 62444 & EN 62444. ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1334X	IECEx CERTIFICATE	IECEx CML 18.0191X
UKEX CERTIFICATE	CML 21UKEX1260X		
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7, 31	COMPLIANCE STANDARDS	IEC 60079-0,1,7, 31
cCSAus CERTIFICATE	2220601		
CSAus CODE OF PROTECTION	Class II, Div. 2, Groups E,F, and G; Class III, Div. 2; Encl. Type 4X; Ex e; Class I, Zone 1, AEx e		
cCSA CODE OF PROTECTION	Class I, Div. 2, Groups A,B,C, and D; Class II, Div. 2, Groups E, F, and G; Class III, Div. 2; Encl. Type 4X; Ex e; Class I, Zone 1, AEx e, Ex e		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0-M91,18.3-04,174-M1984, 94-M91, CAN/CSA-E60079-0,7, CAN/CSA-E61241-1-1, ANSI/UL 514B, ANSI/UL 50, ANSI/UL 60079-0,7		
ECAS CERTIFICATE	20-02-05627	UkrSEPRO CERTIFICATE	СЦ 19.0371X
RETIE APPROVAL NUMBER	03866		
CCC CERTIFICATE	2020322313003408		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-2022051-PDA, BV: 43180		

PATENT GRANTED: US 8440919

ORDER REFERENCE (NPT)			ENTRY THREAD 'C'		MINIMUM THREAD LENGTH 'E'	CABLE RANGE 'A'				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	NOMINAL ASSEMBLY LENGTH 'F'	SHROUD	APPROX WEIGHT ALUMINUM (oz)
						INSERT		NO INSERT						
ALUMINUM	NICKEL PLATED BRASS	STAINLESS STEEL	NPT	NPT OPTION		MIN	MAX	MIN	MAX	MAX	MAX			
TC-050A028	TC-050NB028	TC-050SS028	½"	-	0.78	0.13	0.28	-	-	1.20	1.32	1.20	PVC06	1.94
TC-075A028	TC-075NB028	TC-075SS028	-	¾"	0.80					1.48	1.63	1.24	PVC09	1.69
TC-050A055	TC-050NB055	TC-050SS055	½"	-	0.78	0.26	0.41	0.41	0.55	1.20	1.32	1.20	PVC06	1.94
TC-075A055	TC-075NB055	TC-075SS055	-	¾"	0.80					1.48	1.63	1.24	PVC09	1.69
TC-075A079	TC-075NB079	TC-075SS079	¾"	-	0.80	0.44	0.61	0.61	0.79	1.48	1.63	1.24	PVC09	1.69
TC-100A079	TC-100NB079	TC-100SS079	-	1"	0.98					1.81	1.99	1.65	PVC11	3.17
TC-100A104	TC-100NB104	TC-100SS104	1"	-	0.98	0.67	0.85	0.85	1.04	1.81	1.99	1.65	PVC11	3.88
TC-125A104	TC-125NB104	TC-125SS104	-	1 ¼"	1.01					2.05	2.25		PVC13	
TC-125A127	TC-125NB127	TC-125SS127	1 ¼"	-	1.01	0.93	1.10	1.10	1.27	2.05	2.25	1.65	PVC13	4.94
TC-150A127	TC-150NB127	TC-150SS127	-	1 ½"	1.03					2.36	2.60		PVC18	
TC-150A150	TC-150NB150	TC-150SS150	1 ½"	-	1.03	1.22	1.37	1.37	1.50	2.36	2.60	1.65	PVC18	6.00
TC-200A150	TC-200NB150	TC-200SS150	-	2"	1.06					2.95	3.25		PVC23	
TC-200A174	TC-200NB174	TC-200SS174	2"	-	1.06	-	-	1.40	1.74	2.76	3.03	1.63	PVC21	8.64
TC-250A174	TC-250NB174	TC-250SS174	-	2 ½"	1.57					3.54	3.90		PVC27	
TC-200A197	TC-200NB197	TC-200SS197	2"	-	1.06	-	-	1.63	1.97	2.76	3.03	1.74	PVC21	8.29
TC-250A197	TC-250NB197	TC-250SS197	-	2 ½"	1.57					3.54	3.90		PVC27	
TC-250A220	TC-250NB220	TC-250SS220	2 ½"	-	1.57	-	-	1.86	2.20	3.54	3.90	1.74	PVC27	13.58
TC-300A220	TC-300NB220	TC-300SS220	-	3"	1.63					4.33	4.77		PVC31	
TC-250A244	TC-250NB244	TC-250SS244	2 ½"	-	1.57	-	-	2.13	2.44	3.54	3.90	1.79	PVC28	13.58
TC-300A244	TC-300NB244	TC-300SS244	-	3"	1.63					4.33	4.77		PVC31	
TC-300A268	TC-300NB268	TC-300SS268	3"	-	1.63	-	-	2.41	2.68	4.33	4.77	1.79	PVC31	23.63
TC-350A268	TC-350NB268	TC-350SS268	-	3 ½"	1.69					4.84	5.33		LSF32	
TC-350A315	TC-350NB315	TC-350SS315	3 ½"	-	1.69	-	-	2.62	3.15	4.84	5.33	2.50	LSF32	34.22
TC-400A315	TC-400NB315	TC-400SS315	-	4"	1.73					5.25	5.78		LSF33	
TC-400A354	TC-400NB354	TC-400SS354	4"	-	1.73	-	-	2.99	3.54	5.25	5.78	2.36	LSF34	38.80

Order code example: TC-050A028 - "TC" (Type Gland) - "050" (½" NPT Thread) - 'A' (Material Aluminum) - "028"(Max Cable Diameter 0.28")

Dimensions are displayed in inches unless otherwise stated

A2F

A2F GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION CABLE GLAND

FOR ALL TYPES OF UNARMORED & BRAIDED CABLES

- Aluminum, nickel plated brass or stainless steel
- Optional thread sizes
- Displacement type flameproof seal
- Deluge protected
- -60˚C to +130˚C (-76˚F to +266˚F)
- Globally marked, cCSAus, IECEx, ATEX and UKEX
- As standard in nickel plated brass with NPT thread form

IP66 IP67 IP68 NEMA 4X

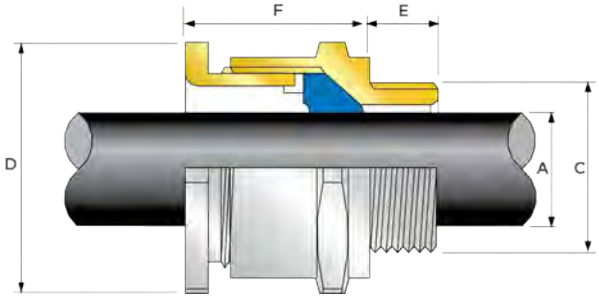
DELUGE PROTECTED

+130˚C / -60˚C

Ex d | AEx e Ex e | AEx t Ex t | AExnR Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
NEMA RATING**	NEMA 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Unarmored & Braided (when terminated inside enclosure)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Unique Displacement Seal Concept
SEALING AREA(S)	Cable Outer Jacket
CABLE GLAND MATERIAL	Copper Free (<0.4%) Aluminum, Nickel Plated Brass, Stainless Steel

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1321X, CML18ATEX4313X	IECEx CERTIFICATE	IECEx CML 18.0179X
UKEX CERTIFICATE	CML 21UKEX1249X, CML 21UKEX4250X		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G Ex nR IIC Gc	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
CSA CERTIFICATE	1211841		
CODE OF PROTECTION	Ex d IIC, Ex e II, Ex nR II; Encl. Type 4x		
COMPLIANCE STANDARDS	C22.2 No 0,0.4,94,174, CAN/CSA-60079-0,1,7,15		
ECAS CERTIFICATE	20-02-05632	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	RU C-GB.АД07.B.02519/20		
KCs CERTIFICATE	13_GA4BO_0748X ; 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X		
INMETRO APPROVAL	TÜV 21.1075X		
CCOE / PESO (INDIA) CERTIFICATE	P444949	RETIE APPROVAL NUMBER	03866
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

COMBINED ORDERING REFERENCE (*NICKEL PLATED BRASS NPT)			AVAILABLE ENTRY THREADS 'C'				OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	APPROX WEIGHT ALUMINUM (oz)
SIZE	TYPE	ORDERING SUFFIX	NPT	NPT (OPTION)	METRIC (OPTION)	THREAD LENGTH (NPT) 'E'	MIN	MAX	MAX	MAX			
20S16	A2F	1RA531	½"	¾"	M20	0.78	0.13	0.34	0.95	1.04	1.04	PVC04	2.30
20S	A2F	1RA531	½"	¾"	M20	0.78	0.24	0.46	0.95	1.04	1.00	PVC04	2.02
20	A2F	1RA531	½"	¾"	M20	0.78	0.26	0.55	1.06	1.17	1.06	PVC05	2.04
25	A2F	1RA532	¾"	1"	M25	0.80	0.44	0.79	1.42	1.56	1.40	PVC09	3.66
32	A2F	1RA533	1"	1 ¼"	M32	0.98	0.67	1.04	1.61	1.78	1.35	PVC10	4.45
40	A2F	1RA534	1 ¼"	1 ½"	M40	1.01	0.93	1.27	1.97	2.17	1.37	PVC13	6.64
50S	A2F	1RA535	1 ½"	2"	M50	1.03	1.22	1.50	2.17	2.38	1.34	PVC15	8.12
50	A2F	1RA536	2"	2 ½"	M50	1.06	1.40	1.73	2.56	2.82	1.52	PVC18	15.26
63S	A2F	1RA536	2"	2 ½"	M63	1.06	1.63	1.97	2.76	3.03	1.42	PVC21	12.41
63	A2F	1RA537	2 ½"	3"	M63	1.57	1.86	2.20	3.15	3.47	1.41	PVC23	25.55
75S	A2F	1RA537	2 ½"	3"	M75	1.57	2.13	2.44	3.15	3.47	1.46	PVC24	18.54
75	A2F	1RA538	3"	3 ½"	M75	1.63	2.41	2.67	3.94	4.33	1.58	PVC24	44.56
90	A2F	1RA539	3 ½"	4"	M90	1.69	2.62	3.15	4.25	4.68	2.18	PVC31	59.90
100	A2F	1RA539	3 ½"	4"	M100	1.69	2.99	3.58	4.85	5.34	2.19	LSF33	52.90
115	A2F	1RA5310	4"	5"	M115	1.73	3.39	3.85	5.25	5.78	2.57	LSF34	76.71
130	A2F	1RA5311	5"	-	M130	1.84	3.82	4.52	6.00	6.60	2.91	LSF35	138.91

*For material options add the following suffix to the ordering reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminum '1'
For NPT options add the following digits to the material suffix; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2F1RA534 = Nickel Plated Brass 1 ¼" NPT, 25A2F1RA432 = Stainless Steel ¾" NPT, 20A2F1RA5 = Nickel Plated Brass M20

Dimensions are displayed in inches unless otherwise stated

PXSS2K

PXSS2K GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION BARRIER CABLE GLAND

FOR ALL TYPES OF UNARMORED CABLES

- Direct and remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Compound barrier type flameproof seal
- Deluge protected
- Disconnectable, union feature design
- -60°C to +85°C (-76˚F to +185˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- As standard in nickel plated brass with NPT thread form
- Compound barrier seals around internal cable cores after removing any inner cable sheath/bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED

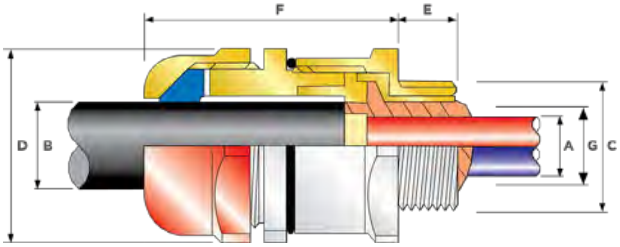
+85˚C ↑ -60˚C

AEx d Ex d | AEx e Ex e | AEx t Ex t | AExnR Ex nR

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATIONS*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminum, Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
CABLE TYPE	Unarmored***
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Inner Compound Barrier and Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ex II 3G, Ex nR IIC Gc Ex I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc; Class I, Zone 20, AEx ta IIIC Da		
cCSA CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 2, Groups F and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94, CAN/CSA-C22.2 No 60079-1,7,15,31, CAN/CSA-E61241-1-1, ANSI/UL 514B, ANSI/UL 50, ANSI 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
cULus CERTIFICATE	E201187, E253914, E161256		
CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups F and G; Class I, Zone 1, AEx d IIC, AEx e II		
COMPLIANCE STANDARDS	UL 2225, UL 514B, UL 60079-0, UL 60079-7, CSA C22.2 No. 174		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487		
CODE OF PROTECTION	1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X, IP66, IP67, IP68		
KCs CERTIFICATE	14_GA4BO_0252X		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE (*NICKEL PLATED BRASS NPT)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)				NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	APPROX WEIGHT ALUMINUM (oz)
SIZE	TYPE	ORDERING SUFFIX	NPT	NPT (OPTION)	METRIC (OPTION)	THREAD LENGTH (NPT) 'E'		MAX	MAX	MIN	MAX	MAX	MAX			
20S16	PXSS2K	1RA531	½"	¾"	M20	0.78	21	0.34	0.34	0.12	0.34	1.18	1.30	2.09	PVC06	7.06
20S	PXSS2K	1RA531	½"	¾"	M20	0.78	21	0.46	0.46	0.24	0.46	1.18	1.30	2.09	PVC06	7.06
20	PXSS2K	1RA531	½"	¾"	M20	0.78	21	0.50	0.51	0.26	0.55	1.18	1.30	2.13	PVC06	7.06
20L	PXSS2K	1RA531	½"	¾"	M20	0.78	21	0.50	0.51	0.39	0.63	1.18	1.30	2.13	PVC06	7.06
25	PXSS2K	1RA532	¾"	1"	M25	0.80	30	0.69	0.70	0.44	0.79	1.42	1.56	2.36	PVC09	11.64
32	PXSS2K	1RA533	1"	1 ¼"	M32	0.98	38	0.93	0.94	0.67	1.04	1.61	1.78	2.41	PVC10	13.76
32L	PXSS2K	1RA533	1"	1 ¼"	M32	0.98	38	0.93	0.94	0.79	1.08	1.61	1.78	2.41	PVC10	13.76
40	PXSS2K	1RA534	1 ¼"	1 ½"	M40	1.01	59	1.18	1.19	0.87	1.26	1.97	2.17	2.46	PVC13	19.75
50S	PXSS2K	1RA535	1 ½"	2"	M50	1.03	89	1.44	1.45	1.16	1.50	2.17	2.38	2.57	PVC15	23.28
50	PXSS2K	1RA536	2"	2 ½"	M50	1.06	115	1.61	1.63	1.40	1.73	2.76	3.03	2.66	PVC21	25.75
63S	PXSS2K	1RA536	2"	2 ½"	M63	1.06	115	1.89	1.91	1.58	1.97	2.76	3.03	2.80	PVC21	37.74
63	PXSS2K	1RA537	2 ½"	3"	M63	1.57	115	2.11	2.13	1.86	2.20	3.15	3.47	2.77	PVC25	37.39
75S	PXSS2K	1RA537	2 ½"	3"	M75	1.57	140	2.36	2.37	2.08	2.44	3.15	3.47	2.97	PVC25	45.86
75	PXSS2K	1RA538	3"	3 ½"	M75	1.63	140	2.53	2.54	2.33	2.67	3.94	4.33	2.95	PVC30	45.86
90	PXSS2K	1RA539	3 ½"	4"	M90	1.69	140	2.96	2.98	2.62	3.13	4.25	4.68	3.73	PVC31	106.53
100	PXSS2K	1RA539	3 ½"	4"	M100	1.69	200	3.29	3.30	2.99	3.58	4.84	5.33	3.40	LSF33	141.10

*Note : For material options please change the suffix in the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5" (as standard), 316 Grade Stainless Steel "4", Copper Free Aluminum "1"
For NPT options please change the following digits after the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39 (Brass requires prefix "0")

Examples: 32PXSS2K1RA534 = Nickel Plated Brass 1 ¼" NPT, 25PXSS2K1RA432 = Stainless Steel ¾" NPT, 20PXSS2K1RA5 Nickel Plated Brass M20

Dimensions are displayed in inches unless otherwise stated

PXSS2KREX

RAPID Ex

PXSS2KREX GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION BARRIER CABLE GLAND

FOR ALL TYPES OF UNARMORED CABLES

- RapidEx liquid pour sealing system reduces installation time
- Direct and remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Deluge protected
- Disconnectable, union feature design
- -60°C to +85°C (-76˚F to +185˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- As standard in nickel plated brass with NPT thread form
- RapidEx liquid barrier resin seals around internal cable cores after removing any cable inner sheath/ bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED

+85˚C / -60˚C

AEx d Ex d | AEx e Ex e | AEx t Ex t | AExnR ExnR

SUPPLIED IN PACK WITH RAPIDEX RESIN

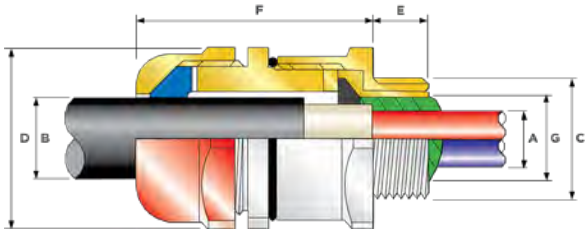
PXSS2KREX

AMERICAS HAZARDOUS LOCATION CABLE GLANDS

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Unarmored***
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Barrier Compound
SEALING TECHNIQUE	CMP Outer Displacement Seal and Inner RapidEx Barrier Seal
SEALING AREA(S)	RapidEx Resin Barrier and Cable Outer Sheath
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminum, Stainless Steel

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths/durations can be provided upon request.



PATENT GRANTED: ES2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153843, US 10193321, US 1034078

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc; Class I, Zone 20, AEx ta IIIC Da		
cCSA CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 2, Groups F and G Class III, Div 1 and 2; Type 4X; Oil Resistance II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94, CAN/CSA-C22.2 No 60079-1,7,15,31, CAN/CSA-E61241-1-1, ANSI/UL 514B, ANSI/UL 50, ANSI 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
cULus CERTIFICATE	E201187, E253914, E161256		
CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups F and G; Class I, Zone 1, AEx d IIC, AEx e II		
COMPLIANCE STANDARDS	UL 2225, UL 514B, UL 60079-0, UL 60079-7, CSA C22.2 No. 174		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	CCC CERTIFICATION	2020322313003190
CODE OF PROTECTION	1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X, IP66, IP67, and IP68		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

* Aluminium alloys are not permitted in Group I mining applications
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE (*NICKEL PLATED BRASS NPT)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)				NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	APPROX WEIGHT ALUMINUM (oz)
SIZE	TYPE	ORDERING SUFFIX	NPT	NPT (OPTION)	METRIC (OPTION)	THREAD LENGTH (NPT) 'E'		MAX	MAX	MIN	MAX	MAX	MAX			
20S16	PXSS2KREX	1EX531	½"	¾"	M20	0.78	21	0.34	0.34	0.12	0.34	1.18	1.30	2.09	PVC06	7.06
20S	PXSS2KREX	1EX531	½"	¾"	M20	0.78	21	0.46	0.46	0.24	0.46	1.18	1.30	2.09	PVC06	7.06
20	PXSS2KREX	1EX531	½"	¾"	M20	0.78	21	0.50	0.51	0.26	0.55	1.18	1.30	2.13	PVC06	7.06
20L	PXSS2KREX	1EX531	½"	¾"	M20	0.78	21	0.50	0.51	0.39	0.63	1.18	1.30	2.13	PVC06	7.06
25	PXSS2KREX	1EX532	¾"	1"	M25	0.80	30	0.69	0.70	0.44	0.79	1.42	1.56	2.36	PVC09	11.64
32	PXSS2KREX	1EX533	1"	1 ¼"	M32	0.98	50	0.93	0.94	0.67	1.04	1.61	1.78	2.41	PVC10	13.76
32L	PXSS2KREX	1EX533	1"	1 ¼"	M32	0.98	50	0.93	0.94	0.79	1.08	1.61	1.78	2.41	PVC10	13.76
40	PXSS2KREX	1EX534	1 ¼"	1 ½"	M40	1.01	59	1.18	1.19	0.87	1.26	1.97	2.17	2.46	PVC13	19.75
50S	PXSS2KREX	1EX535	1 ½"	2"	M50	1.03	89	1.44	1.45	1.16	1.50	2.17	2.38	2.57	PVC15	23.28
50	PXSS2KREX	1EX536	2"	2 ½"	M50	1.06	115	1.61	1.63	1.40	1.73	2.76	3.03	2.66	PVC21	25.75
63S	PXSS2KREX	1EX536	2"	2 ½"	M63	1.06	115	1.89	1.91	1.58	1.97	2.76	3.03	2.80	PVC21	37.74
63	PXSS2KREX	1EX537	2 ½"	3"	M63	1.57	115	2.11	2.13	1.86	2.20	3.15	3.47	2.77	PVC25	37.39
75S	PXSS2KREX	1EX537	2 ½"	3"	M75	1.57	140	2.36	2.37	2.08	2.44	3.15	3.47	2.97	PVC25	45.86
75	PXSS2KREX	1EX538	3"	3 ½"	M75	1.63	140	2.53	2.54	2.33	2.67	3.94	4.33	2.95	PVC30	45.86
90	PXSS2KREX	1EX539	3 ½"	4"	M90	1.69	140	2.96	2.98	2.62	3.13	4.25	4.68	3.73	PVC31	106.53
100	PXSS2KREX	1EX539	3 ½"	4"	M100	1.69	200	3.29	3.30	2.99	3.58	4.84	5.33	3.40	LSF33	141.10

*Note : For material options please change the suffix in the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5" (as standard), 316 Grade Stainless Steel "4", Copper Free Aluminum "1"
For NPT options please change the following digits after the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32PXSS2KREX1EX534 = Nickel Plated Brass 1 ¼" NPT, 25PXSS2KREX1EX432 = Stainless Steel ¾" NPT, 20PXSS2KREX1EX5 Nickel Plated Brass M20

Dimensions are displayed in inches unless otherwise stated

T3CDS TRITON

TRITON CDS (T3CDS) GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION CABLE GLAND

FOR ALL TYPES OF ARMORED CABLES

- Fully sequential, three step installation procedure
- Reduces installation times, cost and risk
- Direct and remote installation
- Unique compensating displacement seal system (CDS)
- Metal-to-metal installation every time regardless of cable diameter
- Designed to reduce the effects of coldflow. See CMP Technical Doc TS002
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents over tightening
- -60˚C to +130˚C (-76˚F to +266˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- As standard in nickel plated brass with NPT thread form

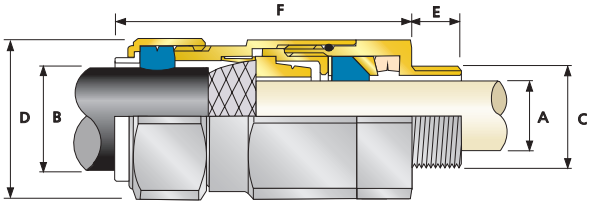
IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED EMC +130 ˚C -60 ˚C

Ex d AEx e Ex e AEx nR Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armor cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminum, Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE(S)	Steel / Served Wire Armor (SWA), Aluminum Wire Armor (AWA), Pliable Wire Armor (PWA), Steel Tape Armor (STA), Aluminum Strip Armor (ASA), Screened Flexible (EMC) Wire Braid (e.g CY/SY), Wire Braid Armor (e.g SWB)
ARMOR CLAMPING	Reversible Armor Cone and AnyWay Universal Clamping Ring
SEALING TECHNIQUE	CMP Inner Compensating Displacement Seal (CDS) and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding and Outer Cable Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1326X, CML18ATEX4318X	IECEx CERTIFICATE	IECEx CML 18.0183X
UKEX CERTIFICATE	CML 21UKEX1258X, CML 21UKEX4259X		
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ex II 3G, Ex nR IIC Gc Ex I M2, Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E, F, and G; Class III, Div 1 and 2; Enclosure Type 4X; Oil Resistance II; Class I, Zone 1, AEx e II, AEx nR II		
cCSA CODE OF PROTECTION	Class I, Div 2, Groups A, B, C, and D; Class II, Div 2, Groups E, F, and G; Class III, Div 1 and 2; Enclosure Types 3, 4, and 4X; Ex d IIC, Ex e II, Ex nR II		
COMPLIANCE STANDARDS	CSA-C22.2 No 0, 18, 25, 30, 94, 174, CSA C22.2 No 60079-0,1,7,15; ANSI/UL 514B, 50, 2225; UL60079-0,1,7,15		
UL CERTIFICATE (20S16 - 90)	E256367		
CODE OF PROTECTION	Class I, Zone 1, AEx e II		
COMPLIANCE STANDARDS	UL 50, 514B, 2225; EN 50014, 60529; CSA C22.2 No. 174		
ECAS CERTIFICATE	20-02-05626	UkrSEPRO CERTIFICATE	CЦ 19.0371X
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487 (excl. ThermEx)		
CODE OF PROTECTION	1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X, IP66, IP67, IP68		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313002527	INMETRO APPROVAL	TUV 11.0374X
SANS	IA MS-XPL21804 21.0011X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armor (STA, DSTA) and Aluminum Strip Armor (ASA) but is also suitable for Single Wire Armor (SWA), Aluminum Wire Armor (AWA) and Pliable Wire Armor (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armor cables. Tapes can also be doubled over. For cables that have only a single layer of armor such as SWA the clamping range should be used as shown in the table below. Stepped (W) Cone is suitable for Single Wire Armor (SWA), or Aluminum Wire Armor (AWA) cables.

COMBINED ORDERING REFERENCE (*NICKEL PLATED BRASS NPT)			AVAILABLE ENTRY THREADS 'C'			MINIMUM THREAD LENGTH 'E'	CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOR RANGE †				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (oz)
											GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	NPT	NPT (OPTION)	METRIC (OPTION)		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	T3CDS	1RA531	½"	¾"	M20	0.78	0.12	0.34	0.24	0.52	0.01	0.04	0.03	0.05	0.94	1.04	3.10	PVC36	7.06
20S	T3CDS	1RA531	½"	¾"	M20	0.78	0.24	0.46	0.37	0.63	0.01	0.04	0.03	0.05	0.94	1.04	3.10	PVC36	6.91
20	T3CDS	1RA531	½"	¾"	M20	0.78	0.26	0.55	0.49	0.82	0.02	0.04	0.03	0.05	1.20	1.32	3.00	PVC06	9.77
25S	T3CDS	1RA532	¾"	1"	M25	0.80	0.44	0.78	0.55	0.87	0.02	0.05	0.05	0.06	1.48	1.63	3.49	PVC09	15.34
25	T3CDS	1RA532	¾"	1"	M25	0.80	0.44	0.78	0.72	1.03	0.02	0.05	0.05	0.06	1.48	1.63	3.49	PVC09	15.34
32	T3CDS	1RA533	1"	1 ¼"	M32	0.98	0.67	1.03	0.93	1.33	0.02	0.05	0.06	0.08	1.81	1.99	3.57	PVC11	22.33
40	T3CDS	1RA534	1 ¼"	1 ½"	M40	1.01	0.87	1.26	1.10	1.59	0.02	0.06	0.06	0.08	2.17	2.38	3.67	PVC15	31.92
50S	T3CDS	1RA535	1 ½"	2"	M50	1.03	1.16	1.50	1.39	1.84	0.02	0.06	0.08	0.10	2.36	2.60	3.96	PVC18	39.65
50	T3CDS	1RA536	2"	2 ½"	M50	1.06	1.40	1.73	1.59	2.09	0.02	0.06	0.08	0.10	2.76	3.04	4.16	PVC21	56.58
63S	T3CDS	1RA536	2"	2 ½"	M63	1.06	1.58	1.98	1.80	2.34	0.02	0.06	0.08	0.10	2.95	3.25	4.03	PVC23	61.10
63	T3CDS	1RA537	2 ½"	3"	M63	1.57	1.86	2.20	2.15	2.59	0.02	0.06	0.08	0.10	3.15	3.46	4.15	PVC25	62.72
75S	T3CDS	1RA537	2 ½"	3"	M75	1.57	2.08	2.44	2.32	2.83	0.02	0.06	0.08	0.10	3.54	3.90	4.35	PVC28	90.70
75	T3CDS	1RA538	3"	3 ½"	M75	1.63	2.33	2.67	2.63	3.09	0.02	0.06	0.10	0.12	3.94	4.33	4.73	PVC30	117.93
90	T3CDS	1RA539	3 ½"	4"	M90	1.69	2.62	3.09	3.00	3.56	0.03	0.06	0.12	0.16	4.53	4.98	5.47	PVC32	171.73
100	T3CDS	1RA539	3 ½"	4"	M100	1.69	2.99	3.58	3.39	3.99	0.03	0.06	0.12	0.16	5.00	5.50	5.05	LSF33	175.28
115	T3CDS	1RA5310	4"	5"	M115	1.73	3.39	3.85	4.00	4.34	0.03	0.06	0.12	0.16	5.43	5.98	6.35	LSF34	272.35
130	T3CDS	1RA5311	5"	-	M130	1.84	3.82	4.52	4.34	4.85	0.03	0.06	0.12	0.16	6.10	6.71	6.82	LSF35	344.37

*Note : For material options please change the suffix in the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5" (as standard), 316 Grade Stainless Steel "4", Copper Free Aluminum "1"
For NPT options please change the following digits after the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32T3CDS1RA534 = Nickel Plated Brass 1 ¼" NPT, 25T3CDS1RA432 = Stainless Steel ¾" NPT, 20T3CDS1RA5 = Nickel Plated Brass M20

Dimensions are displayed in inches unless otherwise stated

C2KX

C2KX GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION CABLE GLAND

FOR ALL TYPES OF BRAIDED CABLES

- Metal-to-metal armor clamping
- Direct and remote installation
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- Standard:
  -60˚C to +130˚C (-76˚F to +266˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- VAR design available for VFD/ VSD cables
- As standard in nickel plated brass with NPT thread form

IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED EMC +130˚C -60˚C

AEx e
Ex e

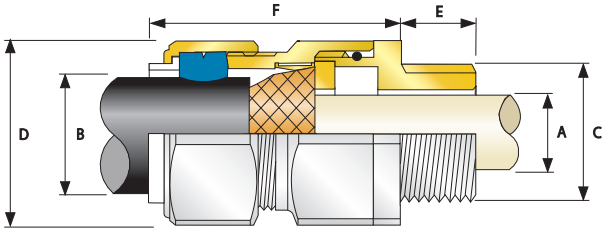
CMP SOLO LSF HALOGEN FREE SHROUDS ALSO AVAILABLE ON REQUEST

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armor cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
NEMA RATING**	NEMA 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91

CABLE TYPE	Braid Armored Shipboard cable and all IEC Braid Cables
ARMOR CLAMPING	Detachable Armor Cone and AnyWay Universal Clamping Ring
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Load Retention Seal
SEALING AREA(S)	Cable Outer Jacket
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminum, Stainless Steel

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1323X	IECEx CERTIFICATE	IECEx CML 18.0180X
UKEX CERTIFICATE	CML 21UKEX1251X		
CODE OF PROTECTION	Ⓔ II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,7,31	COMPLIANCE STANDARDS	IEC 60079-0,7,31
cCSAus CERTIFICATE (20S16 - 90)	2367109		
CSAus CODE OF PROTECTION	Class I, Zone 1, AEx e II		
cCSA CODE OF PROTECTION	Ex e II		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0-10,18.3-04, 94.1-07, 94.2-07, CSA-E60079-0:-11, CAN/CSA-E60079-7:03, ANSI/UL 514B, ANSI/UL 50, ANSI/UL 50E, ANSI/UL 2225, CAN/CSA C22.2 No. 60529:05, ANSI/UL 60079-0,7, IEC 60529 Ed. 2.1		
UL CERTIFICATE (20S16 - 90)	E 200163, E256367		
CODE OF PROTECTION	Class I, Zone 1, AEx e II		
COMPLIANCE STANDARDS	UL 50, UL 514B, UL 2225, EN 50014, EN 50018, EN 60529		
ECAS CERTIFICATE	20-02-05625	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487		
CODE OF PROTECTION	1Ex e IIC Gb X, Ex ta IIIC Da X, IP66, IP67, IP68		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003285	INMETRO APPROVAL	TÜV 12.0617X
SANS	IA S-XPL21804 21.0009X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 16-LD1478091-PDA, BV: 43180		

COMBINED ORDERING REFERENCE (*NICKEL PLATED BRASS NPT)			AVAILABLE ENTRY THREADS 'C'			MINIMUM THREAD LENGTH 'E'	CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (oz)
SIZE	TYPE	ORDERING SUFFIX	NPT	NPT (OPTION)	METRIC (OPTION)		MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	C2KX	1RA531	½"	¾"	M20	0.78	0.34	0.24	0.52	0.01	0.04	0.94	1.04	2.56	PVC04	8.19
20S	C2KX	1RA531	½"	¾"	M20	0.78	0.46	0.37	0.63	0.01	0.04	0.94	1.04	2.44	PVC04	7.96
20	C2KX	1RA531	½"	¾"	M20	0.78	0.55	0.49	0.82	0.02	0.04	1.20	1.32	2.48	PVC06	7.86
25S	C2KX	1RA532	¾"	1"	M25	0.80	0.79	0.55	0.87	0.02	0.05	1.48	1.62	2.74	PVC09	12.24
25	C2KX	1RA532	¾"	1"	M25	0.80	0.79	0.72	1.03	0.02	0.05	1.48	1.62	2.74	PVC09	12.24
32	C2KX	1RA533	1"	1 ¼"	M32	0.98	1.02	0.93	1.33	0.02	0.05	1.81	1.99	2.95	PVC11	19.47
40	C2KX	1RA534	1 ¼"	1 ½"	M40	1.01	1.27	1.10	1.59	0.02	0.06	2.17	2.38	2.95	PVC15	26.46
50S	C2KX	1RA535	1 ½"	2"	M50	1.03	1.50	1.39	1.84	0.02	0.06	2.36	2.60	3.03	PVC18	30.27
50	C2KX	1RA536	2"	2 ½"	M50	1.06	1.74	1.59	2.09	0.02	0.06	2.76	3.04	3.03	PVC21	40.00
63S	C2KX	1RA536	2"	2 ½"	M63	1.06	1.97	1.80	2.34	0.02	0.06	2.95	3.25	3.15	PVC23	46.77
63	C2KX	1RA537	2 ½"	3"	M63	1.57	2.21	2.15	2.59	0.02	0.06	3.15	3.46	3.15	PVC25	47.37
75S	C2KX	1RA537	2 ½"	3"	M75	1.57	2.44	2.32	2.83	0.02	0.06	3.54	3.90	3.43	PVC28	71.39
75	C2KX	1RA538	3"	3 ½"	M75	1.63	2.53	2.63	3.09	0.02	0.06	3.94	4.33	3.47	PVC30	87.41
90	C2KX	1RA539	3 ½"	4"	M90	1.69	3.09	3.00	3.56	0.03	0.06	4.50	4.95	4.02	PVC32	124.27
100	C2KX	1RA539	3 ½"	4"	M100	1.69	3.58	3.39	3.99	0.03	0.06	5.24	5.76	4.49	LSF33	101.13

*Note : For material options please change the suffix in the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5" (as standard), 316 Grade Stainless Steel "4", Copper Free Aluminum "1"
For NPT options please change the following digits after the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32C2KX1RA5 = Nickel Plated Brass 32mm, 32C2KX1RA1 = Copper Free Aluminum 32mm

Dimensions are displayed in inches unless otherwise stated

PX2KX

PX2KX GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION BARRIER CABLE GLAND

FOR ALL TYPES OF BRAIDED & TAPE ARMORED CABLES

- Metal-to-metal armor clamping
- Direct and remote installation
- Integral protected deluge seal
- Compound barrier type flameproof seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- Integral protected deluge seal
- Disconnectable, union feature design
- -60˚C to +85˚C (-76˚F to +185˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- As standard in nickel plated brass with NPT thread form
- Compound barrier seals around internal cable cores after removing any inner cable sheath/ bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED EMC +85˚C ↑ -60˚C

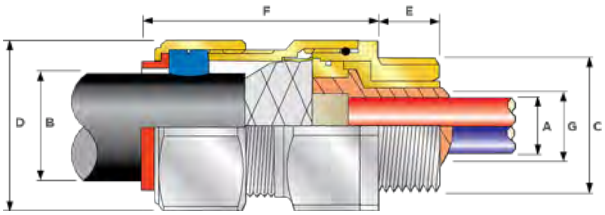
AEx d Ex d | AEx e Ex e | AEx t Ex t | AExnR Ex nR

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armor cables)
INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91

CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminum, Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
CABLE TYPE	Braid Armored Shipboard cable and all IEC Braid Cables***
ARMOR CLAMPING	Detachable Compound Tube / Cone and AnyWay Universal Clamping Ring
SEALING TECHNIQUE	CMP Outer Load Retention Seal
SEALING AREA(S)	Inner Compound Barrier and Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc; Class I, Zone 20, AEx ta IIIC Da		
cCSA CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94, CAN/CSA-C22.2 No 60079-1,7,15,31, CAN/CSA-E61241-1-1, ANSI/UL 514B, 50, 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
cULus CERTIFICATE (20S16 - 90)	E201187, E256367		
CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 1 and 2, Groups E,F, and G; Class I, Zone 1, AEx d IIC		
COMPLIANCE STANDARDS	UL 2225, CSA C22.2 No 174, UL 514B, CSA C22.2 No 18, CSA C22.2 No 30, UL50		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487		
CODE OF PROTECTION	1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X, IP66, IP67, IP68		
KCs CERTFICATE	14_GA4BO_0252X		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications.
**Where the cable is permitted by code (NEC and/or CEC)

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

COMBINED ORDERING REFERENCE (*NICKEL PLATED BRASS NPT)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)				NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	APPROX WEIGHT ALUMINUM (oz)
SIZE	TYPE	ORDERING SUFFIX	NPT	NPT (OPTION)	METRIC (OPTION)	THREAD LENGTH (NPT) 'E'		MAX	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KX	1RA531	½"	¾"	M20	0.78	21	0.46	0.46	0.24	0.52	0.01	0.04	1.20	1.32	2.44	PVC06	8.47
20S	PX2KX	1RA531	½"	¾"	M20	0.78	21	0.46	0.46	0.37	0.63	0.01	0.04	1.20	1.32	2.44	PVC06	8.11
20	PX2KX	1RA531	½"	¾"	M20	0.78	21	0.50	0.51	0.49	0.82	0.02	0.04	1.20	1.32	2.48	PVC06	8.47
25S	PX2KX	1RA532	¾"	1"	M25	0.80	30	0.69	0.70	0.55	0.87	0.02	0.05	1.48	1.62	2.74	PVC09	13.05
25	PX2KX	1RA532	¾"	1"	M25	0.80	30	0.69	0.70	0.72	1.03	0.02	0.05	1.48	1.62	2.74	PVC09	13.05
32	PX2KX	1RA533	1"	1 ¼"	M32	0.98	38	0.93	0.94	0.93	1.34	0.02	0.05	1.81	1.99	2.95	PVC11	20.11
40	PX2KX	1RA534	1 ¼"	1 ½"	M40	1.01	59	1.18	1.19	1.10	1.59	0.02	0.06	2.17	2.38	2.95	PVC15	28.22
50S	PX2KX	1RA535	1 ½"	2"	M50	1.03	89	1.44	1.45	1.39	1.84	0.02	0.06	2.36	2.60	3.03	PVC18	31.75
50	PX2KX	1RA536	2"	2 ½"	M50	1.06	115	1.61	1.63	1.59	2.09	0.02	0.06	2.76	3.04	3.03	PVC21	41.98
63S	PX2KX	1RA536	2"	2 ½"	M63	1.06	115	1.89	1.88	1.80	2.34	0.02	0.06	2.95	3.25	3.14	PVC23	49.03
63	PX2KX	1RA537	2 ½"	3"	M63	1.57	115	2.11	2.13	2.15	2.59	0.02	0.06	3.15	3.46	3.16	PVC25	49.74
75S	PX2KX	1RA537	2 ½"	3"	M75	1.57	140	2.36	2.37	2.32	2.84	0.02	0.06	3.54	3.90	3.42	PVC28	73.72
75	PX2KX	1RA538	3"	3 ½"	M75	1.63	140	2.53	2.54	2.63	3.09	0.02	0.06	3.94	4.33	3.48	PVC30	89.60
90	PX2KX	1RA539	3 ½"	4"	M90	1.69	140	2.97	2.98	3.00	3.56	0.03	0.06	4.50	4.95	4.02	PVC32	130.87
100	PX2KX	1RA539	3 ½"	4"	M100	1.69	200	3.29	3.30	3.39	3.99	0.03	0.06	5.24	5.76	4.49	LSF33	169.67

*Note : For material options please change the suffix in the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5" (as standard), 316 Grade Stainless Steel "4", Copper Free Aluminum "1"
For NPT options please change the following digits after the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32PX2KX1RA534 = Nickel Plated Brass 1 ¼" NPT, 50SPX2KX1RA035 = Brass 1 ½" NPT, 25PX2KX1RA432 = Stainless Steel ¾" NPT, 20PX2KX1RA5 Nickel Plated Brass M20

Dimensions are displayed in inches unless otherwise stated

PX2KXREX

RAPID Ex

PX2KXREX GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION BARRIER CABLE GLAND

FOR ALL TYPES OF BRAIDED & TAPE ARMORED CABLES

- RapidEx liquid pour sealing system reduces installation time
- Metal-to-metal armor clamping
- Direct and remote installation
- Integral protected deluge seal
- Disconnectable, union feature design
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- -60˚C to +85˚C (-76˚F to +185˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- As standard in nickel plated brass with NPT thread form
- RapidEx liquid barrier resin seals around internal cable cores after removing any cable inner sheath/ bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED | EMC | +85˚C ↑ -60˚C

AEx d / Ex d | AEx e / Ex e | AEx t / Ex t | AExnR / Ex nR

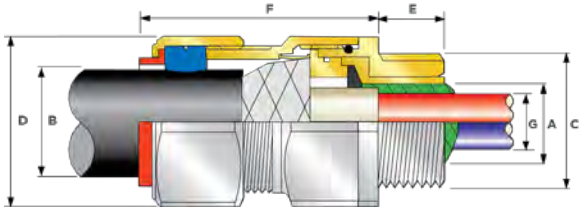
SUPPLIED IN PACK WITH RAPIDEX RESIN

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B (Category A when used with braid, tape or pliable wire armor cables)
INGRESS PROTECTION RATING**	IP66, IP67 & IP68****
NEMA/TYPE RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91

CABLE TYPE	Braid Armored Shipboard cable and all IEC Braid Cables***
ARMOR CLAMPING	Detachable Resin Tube / Cone & AnyWay Universal Clamping Ring
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Resin Barrier
SEALING TECHNIQUE	CMP Outer Load Retention Seal and Inner RapidEx Barrier Seal
SEALING AREA(S)	Inner RapidEx Barrier Seal & Outer Sheath
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminum, Stainless Steel

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
Where the cable is permitted by code (NEC and/or CEC) * IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.



PATENT GRANTED: ES2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153843, US 10193321, US 1034078

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I,Zone 2, AEx nR IIC Gc; Class I, Zone 20, AEx ta IIIC Da		
cCSA CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0, 18, 25, 30, 174, 94, CSA-C22.2 No 60079-0,1,7,15,31, CAN/CSA-E61241-1-1, ANSI/UL 514B, 50, 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487		
CODE OF PROTECTION	1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X, IP66, IP67, IP68		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications
**Where the cable is permitted by code (NEC and/or CEC)

† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W). Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armour cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

COMBINED ORDERING REFERENCE (*NICKEL PLATED BRASS NPT)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)				NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOR RANGE † GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	APPROX WEIGHT ALUMINUM (oz)
SIZE	TYPE	ORDERING SUFFIX	NPT	NPT (OPTION)	METRIC (OPTION)	THREAD LENGTH (NPT) 'E'		MAX	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KXREX	1EX531	½"	¾"	M20	0.78	21	0.46	0.46	0.24	0.52	0.01	0.04	1.20	1.32	2.44	PVC06	8.47
20S	PX2KXREX	1EX531	½"	¾"	M20	0.78	21	0.46	0.46	0.37	0.63	0.01	0.04	1.20	1.32	2.44	PVC06	8.11
20	PX2KXREX	1EX531	½"	¾"	M20	0.78	21	0.50	0.51	0.49	0.82	0.02	0.04	1.20	1.32	2.48	PVC06	8.47
25S	PX2KXREX	1EX532	¾"	1"	M25	0.80	30	0.69	0.70	0.55	0.87	0.02	0.05	1.48	1.62	2.74	PVC09	13.05
25	PX2KXREX	1EX532	¾"	1"	M25	0.80	30	0.69	0.70	0.72	1.03	0.02	0.05	1.48	1.62	2.74	PVC09	13.05
32	PX2KXREX	1EX533	1"	1 ¼"	M32	0.98	50	0.93	0.94	0.93	1.34	0.02	0.05	1.81	1.99	2.95	PVC11	20.11
40	PX2KXREX	1EX534	1 ¼"	1 ½"	M40	1.01	59	1.18	1.19	1.10	1.59	0.02	0.06	2.17	2.38	2.95	PVC15	28.22
50S	PX2KXREX	1EX535	1 ½"	2"	M50	1.03	89	1.44	1.45	1.39	1.84	0.02	0.06	2.36	2.60	3.03	PVC18	31.75
50	PX2KXREX	1EX536	2"	2 ½"	M50	1.06	115	1.61	1.63	1.59	2.09	0.02	0.06	2.76	3.04	3.03	PVC21	41.98
63S	PX2KXREX	1EX536	2"	2 ½"	M63	1.06	115	1.89	1.91	1.80	2.34	0.02	0.06	2.95	3.25	3.14	PVC23	49.03
63	PX2KXREX	1EX537	2 ½"	3"	M63	1.57	115	2.11	2.13	2.15	2.59	0.02	0.06	3.15	3.46	3.16	PVC25	49.74
75S	PX2KXREX	1EX537	2 ½"	3"	M75	1.57	140	2.36	2.37	2.32	2.84	0.02	0.06	3.54	3.90	3.42	PVC28	73.72
75	PX2KXREX	1EX538	3"	3 ½"	M75	1.63	140	2.53	2.54	2.63	3.09	0.02	0.06	3.94	4.33	3.48	PVC30	89.60
90	PX2KXREX	1EX539	3 ½"	4"	M90	1.69	140	2.97	2.98	3.00	3.56	0.03	0.06	4.50	4.95	4.02	PVC32	130.87
100	PX2KXREX	1EX539	3 ½"	4"	M100	1.69	200	3.29	3.38	3.39	3.99	0.03	0.06	5.24	5.76	4.49	LSF33	169.67

*Note : For material options please change the suffix in the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5" (as standard), 316 Grade Stainless Steel "4", Copper Free Aluminum "1"
For NPT options please change the following digits after the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32PX2KXREX1EX534 = Nickel Plated Brass 1 ¼" NPT, 25PX2KXREX1EX432 = Stainless Steel ¾" NPT, 20PX2KXREX1EX5 Nickel Plated Brass M20

Dimensions are displayed in inches unless otherwise stated

PX2KW

PX2KW GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION BARRIER CABLE GLAND

FOR ALL TYPES OF SINGLE / SERVED WIRE ARMORED CABLES

- Metal-to-metal armor clamping
- Direct and remote installation
- Integral protected deluge seal
- Compound barrier type flameproof seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- Disconnectable, union feature design
- -60˚C to + 85˚C (-76˚F to +185˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- As standard in nickel plated brass with NPT thread form
- Compound barrier seals around internal cable cores after removing any inner cable sheath/ bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED EMC +85˚C -60˚C

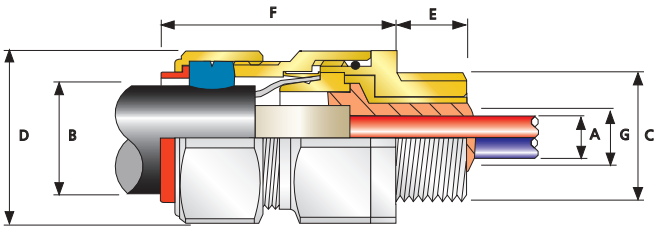
AEx d Ex d | AEx e Ex e | AEx nR Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B

INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91

CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminum, Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / Epoxy Barrier Compound
CABLE TYPE	Single / Served Wire Armor (SWA)***
ARMOR CLAMPING	Detachable Compound Tube / Cone and AnyWay Universal Clamping Ring
SEALING TECHNIQUE	CMP Outer Load Retention Seal
SEALING AREA(S)	Inner Compound Barrier and Outer Sheath

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx II 3G, Ex nR IIC Gc Ⓔx I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 2, Groups F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc		
cCSA CODE OF PROTECTION**	Class I, Div 2, Groups A, B, C, and D; Class II, Div 2, Groups F and G; Class III, Div 2; Type 4X; Oil Resistance II; Ex nR IIC Gc		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,174,94, CAN/CSA-C22.2 No 60079-1,7,15,31, CAN/CSA-E61241-1-1, ANSI/UL 514B, 50, 2225, ANSI/ISA 60079-31, UL60079-0,1,7,15		
cULus CERTIFICATE (20S16 - 90)	E161256		
CODE OF PROTECTION**	Class I Div 1 and 2, Groups A,B,C, and D; Class II Div 1 and 2, Groups F, and G		
COMPLIANCE STANDARDS	UL 2225, CSA C22.2 No 174, UL 514B, CSA C22.2 No 18, CSA C22.2 No 30		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487		
CODE OF PROTECTION	1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X, IP66, IP67, IP68		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
KCs CERTIFICATE	14_GA4BO_0252X		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE (*NICKEL PLATED BRASS NPT)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)				NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (oz)
SIZE	TYPE	ORDERING SUFFIX	NPT	NPT (OPTION)	METRIC (OPTION)	THREAD LENGTH (NPT) 'E'		MAX	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KW	1RA531	½"	¾"	M20	0.78	21	0.46	0.46	0.24	0.52	0.03	0.05	1.20	1.32	2.44	PVC06	8.47
20S	PX2KW	1RA531	½"	¾"	M20	0.78	21	0.46	0.46	0.37	0.63	0.03	0.05	1.20	1.32	2.44	PVC06	8.11
20	PX2KW	1RA531	½"	¾"	M20	0.78	21	0.50	0.51	0.49	0.82	0.03	0.05	1.20	1.32	2.48	PVC06	8.47
25S	PX2KW	1RA532	¾"	1"	M25	0.80	30	0.69	0.70	0.55	0.87	0.05	0.06	1.48	1.62	2.74	PVC09	13.05
25	PX2KW	1RA532	¾"	1"	M25	0.80	30	0.69	0.70	0.72	1.03	0.05	0.06	1.48	1.62	2.74	PVC09	13.05
32	PX2KW	1RA533	1"	1 ¼"	M32	0.98	38	0.93	0.94	0.93	1.34	0.06	0.08	1.81	1.99	2.95	PVC11	20.11
40	PX2KW	1RA534	1 ¼"	1 ½"	M40	1.01	59	1.18	1.19	1.10	1.59	0.06	0.08	2.17	2.38	2.95	PVC15	28.22
50S	PX2KW	1RA535	1 ½"	2"	M50	1.03	89	1.44	1.45	1.39	1.84	0.08	0.10	2.36	2.60	3.03	PVC18	31.75
50	PX2KW	1RA536	2"	2 ½"	M50	1.06	115	1.61	1.63	1.59	2.09	0.08	0.10	2.76	3.04	3.03	PVC21	41.98
63S	PX2KW	1RA536	2"	2 ½"	M63	1.06	115	1.89	1.91	1.80	2.34	0.08	0.10	2.95	3.25	3.14	PVC23	49.03
63	PX2KW	1RA537	2 ½"	3"	M63	1.57	115	2.11	2.13	2.15	2.59	0.08	0.10	3.15	3.46	3.16	PVC25	49.74
75S	PX2KW	1RA537	2 ½"	3"	M75	1.57	140	2.36	2.37	2.32	2.84	0.08	0.10	3.54	3.90	3.42	PVC28	73.72
75	PX2KW	1RA538	3"	3 ½"	M75	1.63	140	2.53	2.54	2.63	3.09	0.10	0.12	3.94	4.33	3.48	PVC30	89.60
90	PX2KW	1RA539	3 ½"	4"	M90	1.69	140	2.97	2.98	3.00	3.56	0.12	0.16	4.50	4.95	4.02	PVC32	130.87
100	PX2KW	1RA539	3 ½"	4"	M100	1.69	200	3.29	3.38	3.39	3.99	0.12	0.16	5.24	5.76	4.49	LSF33	169.67

*Note : For material options please change the suffix in the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5" (as standard), 316 Grade Stainless Steel "4", Copper Free Aluminum "1"
For NPT options please change the following digits after the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32PX2KW1RA534 = Nickel Plated Brass 1 ¼" NPT, 25PX2KW1RA432 = Stainless Steel ¾" NPT, 20PX2KW1RA5 Nickel Plated Brass M20

Dimensions are displayed in inches unless otherwise stated

PX2KWREX

RAPID Ex

PX2KWREX GLOBALLY APPROVED, HAZARDOUS (CLASSIFIED) LOCATION BARRIER CABLE GLAND

FOR ALL TYPES OF SINGLE / SERVED WIRE ARMORED CABLES

- RapidEx liquid pour sealing system reduces installation time
- Metal-to-metal armor clamping
- Direct and remote installation
- Integral protected deluge seal
- Disconnectable, union feature design
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- -60˚C to +85˚C (-76˚F to +185˚F)
- Globally marked, UL, cCSAus, IECEx, ATEX and UKEX
- Superior EMC performance
- As standard in nickel plated brass with NPT thread form
- RapidEx liquid barrier resin seals around internal cable cores after removing any cable inner sheath/ bedding; completely eliminating any risk of coldflow

IP66 IP67 IP68 NEMA 4X

DELUGE PROTECTED EMC +85˚C -60˚C

AEx d Ex d AEx e Ex e AEx nR Ex nR

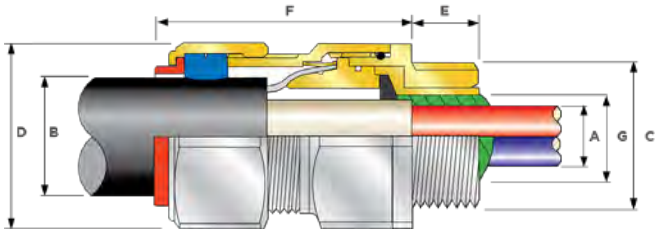
SUPPLIED IN PACK WITH RAPIDEX RESIN

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Type D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
ELECTRICAL CLASSIFICATION*	Category B

INGRESS PROTECTION RATING**	IP66, IP67 and IP68****
NEMA RATING**	Type 4X
DELUGE PROTECTION COMPLIANCE	DTS01 : 91

CABLE TYPE	Single / Served Wire Armor (SWA)***
ARMOR CLAMPING	Detachable Resin Tube / Cone and AnyWay Universal Clamping Ring
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer / RapidEx Resin Barrier
SEALING TECHNIQUE	CMP Outer Load Retention Seal and Inner RapidEx Barrier Seal
SEALING AREA(S)	Inner RapidEx Barrier Seal and Outer Sheath
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Copper Free (<0.4%) Aluminum, Stainless Steel

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. ***Where the cable is permitted by code (NEC and/or CEC) **** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



PATENT GRANTED: ES2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153843, US 10193321, US 1034078

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1325X, CML18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
UKEX CERTIFICATE	CML 21UKEX1214X, CML 21UKEX4215X		
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC, Ex eb IIC Gb, Ex ta IIIC Da Ex II 3G, Ex nR IIC Gc Ex I M2 Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSAus CERTIFICATE (20S16 - 90)	2288626		
CSAus CODE OF PROTECTION**	Class I, Div 1 and 2, Groups A,B,C, and D; Class II, Div 2, Groups F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc		
cCSA CODE OF PROTECTION**	Class I, Div 2, Groups A,B,C, and D; Class II, Div 2, Groups F and G; Class III, Div 2; Type 4X; Oil Resistance II; Ex nR IIC Gc		
COMPLIANCE STANDARDS	CAN/CSA-C22.2 No 0,18,25,30,94,174, CAN/CSA-60079-0,1,7,31 CAN/CSA-E6124111 Part 11, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079		
cULus CERTIFICATE (20S16 - 90)	E161256		
CODE OF PROTECTION**	Class I Div 1 and 2, Groups A, B, C, and D; Class II Div 1 and 2, Groups F, and G		
COMPLIANCE STANDARDS	UL 2225, CSA C22.2 No 174, UL 514B, CSA C22.2 No 18, CSA C22.2 No 30		
ECAS CERTIFICATE	20-02-05624	UkrSEPRO CERTIFICATE	СЦ 19.0371X
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487		
CODE OF PROTECTION	1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X, IP66, IP67, IP68		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003190	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180		

*Aluminium alloys are not permitted in Group I mining applications.
**Where the cable is permitted by code (NEC and/or CEC)

COMBINED ORDERING REFERENCE (*NICKEL PLATED BRASS NPT)			AVAILABLE ENTRY THREADS 'C' (ALTERNATIVE METRIC THREAD LENGTHS AVAILABLE)				NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	APPROX WEIGHT ALUMINUM (oz)
SIZE	TYPE	ORDERING SUFFIX	NPT	NPT (OPTION)	METRIC (OPTION)	THREAD LENGTH (NPT) 'E'		MAX	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KWREX	1EX531	½"	¾"	M20	0.78	21	0.46	0.46	0.24	0.52	0.03	0.05	1.20	1.32	2.44	PVC06	8.47
20S	PX2KWREX	1EX531	½"	¾"	M20	0.78	21	0.46	0.46	0.37	0.63	0.03	0.05	1.20	1.32	2.44	PVC06	8.11
20	PX2KWREX	1EX531	½"	¾"	M20	0.78	21	0.50	0.51	0.49	0.82	0.03	0.05	1.20	1.32	2.48	PVC06	8.47
25S	PX2KWREX	1EX532	¾"	1"	M25	0.80	30	0.69	0.70	0.55	0.87	0.05	0.06	1.48	1.62	2.74	PVC09	13.05
25	PX2KWREX	1EX532	¾"	1"	M25	0.80	30	0.69	0.70	0.72	1.03	0.05	0.06	1.48	1.62	2.74	PVC09	13.05
32	PX2KWREX	1EX533	1"	1 ¼"	M32	0.98	50	0.93	0.94	0.93	1.34	0.06	0.08	1.81	1.99	2.95	PVC11	20.11
40	PX2KWREX	1EX534	1 ¼"	1 ½"	M40	1.01	59	1.18	1.19	1.10	1.59	0.06	0.08	2.17	2.38	2.95	PVC15	28.22
50S	PX2KWREX	1EX535	1 ½"	2"	M50	1.03	89	1.44	1.45	1.39	1.84	0.08	0.10	2.36	2.60	3.03	PVC18	31.75
50	PX2KWREX	1EX536	2"	2 ½"	M50	1.06	115	1.61	1.63	1.59	2.09	0.08	0.10	2.76	3.04	3.03	PVC21	41.98
63S	PX2KWREX	1EX536	2"	2 ½"	M63	1.06	115	1.89	1.90	1.80	2.34	0.08	0.10	2.95	3.25	3.14	PVC23	49.03
63	PX2KWREX	1EX537	2 ½"	3"	M63	1.57	115	2.11	2.13	2.15	2.59	0.08	0.10	3.15	3.46	3.16	PVC25	49.74
75S	PX2KWREX	1EX537	2 ½"	3"	M75	1.57	140	2.36	2.37	2.32	2.84	0.08	0.10	3.54	3.90	3.42	PVC28	73.72
75	PX2KWREX	1EX538	3"	3 ½"	M75	1.63	140	2.53	2.54	2.63	3.09	0.10	0.12	3.94	4.33	3.48	PVC30	89.60
90	PX2KWREX	1EX539	3 ½"	4"	M90	1.69	140	2.97	2.98	3.00	3.56	0.12	0.16	4.50	4.95	4.02	PVC32	130.87
100	PX2KWREX	1EX539	3 ½"	4"	M100	1.69	200	3.29	3.30	3.39	3.99	0.12	0.16	5.24	5.76	4.49	LSF33	169.67

*Note : For material options please change the suffix in the ordering reference ; Brass (no suffix required), Nickel Plated Brass "5" (as standard), 316 Grade Stainless Steel "4", Copper Free Aluminum "1"
For NPT options please change the following digits after the material suffix ; ½" = 31, ¾" = 32, 1" = 33, 1 ¼" = 34, 1 ½" = 35, 2" = 36, 2 ½" = 37, 3" = 38, 3 ½" = 39, 4" = 310 (Brass requires prefix "0")

Examples: 32PX2KWREX1EX534 = Nickel Plated Brass 1 ¼" NPT, 25PX2KWREX1EX432 = Stainless Steel ¾" NPT, 20PX2KWREX1EX5 Nickel Plated Brass M20

Dimensions are displayed in inches unless otherwise stated

THREAD CONVERSIONS & ACCESSORIES

The CMP range of thread conversion adaptors, reducers and associated products are available for use in industrial, marine and explosive atmosphere applications, and are particularly suited to construction projects where a high volume of cables of differing types and sizes are being installed.

When the cable gland fits the cable but its connecting thread differs from that of the equipment the best solution may be to use a CMP thread conversion adaptor, especially when schedules are critical and time is of the essence.

Adaptors and reducers provide a means of connection between the equipment and cable glands with dissimilar thread sizes or types, offering the flexibility of allowing work to progress by using a standard product to save time and cost, compared with modifying hole sizes in equipment.

In addition to adaptors and reducers, CMP provides unions, stopper plugs, breather/drain plugs and insulated adaptors. All products in this range are available in a variety of materials, both metallic and non-metallic, and can be supplied in a combination of different thread forms and sizes including metric, PG, NPT and BSP.

All accessories comply with the latest global standards and are offered with certification from a host of internationally recognised bodies, including IECEx, ATEX, UL and CSA.

ORDERING ACCESSORIES

When selecting and installing certified electrical equipment and components in potentially Explosive Atmospheres, it is the user's responsibility to ensure that the local industry codes of practice are observed and followed, for example IEC 60079-14.

To determine ordering reference please select from the tables below in the following order:

PRODUCT TYPE ▶ FORM OF PROTECTION ▶ THREAD FORM ▶ THREAD SIZE ▶ THREAD FORM (if applicable) ▶ THREAD SIZE (if applicable) ▶ MATERIAL

Example 1. **737DT3T25**
737 Adaptor - Globally Certified - NPT 1" (M) x NPT ¾" (F) - Nickel Plated Brass

PRODUCT TYPE	FORM OF PROTECTION	OPTION	MALE THREAD FORM	MALE THREAD SIZE	FEMALE THREAD FORM	FEMALE THREAD SIZE	MATERIAL
From Product Page	From Table A Below	From Table B Below	From Table C Below	From Table D Below	From Table C Below	From Table D Below	From Table E Below
737	D	R	T	3	T	2	5

Example 2. **747DAT15**
747 Recessed Stopper Plug - Globally Certified - NPT ½" - Nickel Plated Brass

PRODUCT TYPE	FORM OF PROTECTION	OPTION	MALE THREAD FORM	MALE THREAD SIZE	MATERIAL
From Product Page	From Table A Below	From Table B Below	From Table C Below	From Table D Below	From Table E Below
747	D	A	T	1	5

TABLE A

CODE	FORM OF PROTECTION
D	Group II Globally Certified Ex db / AEx db & Ex e b/ AEx eb
E	Group II Increased Safety Ex eb / AEx eb
G	General purpose
M	Group I Mining

TABLE B

CODE	OPTIONS
A	Type A e.g. externally secured - Non tamper-proof Ex d Stopper Plug
B	Type B e.g. internally secured - tamper-proofEx d Stopper Plug
R	Optional equipment interface 'O' ring seal

Type 'A' and 'B' for stopper plugs and insulated adaptors only

TABLE C

CODE	THREAD FORM
M	Metric
N	NPSM
T	NPT
P	PG
B	BSPP
I	E.T. (Imperial)
S	BSPT

Other variations available on request

TABLE D

CODE	THREAD SIZE						
	METRIC "M"	NPSM "N"	NPT "T"	PG "P"	BSPP 'B'	IMPERIAL "I"	BSPT "S"
1A	-	-	⅜"	7	-	½"	-
1	16	½"	½"	9	½"	⅝"	½"
2	20	¾"	¾"	11	¾"	¾"	¾"
3	25	1"	1"	13.5	1"	1"	1"
4	32	1 ¼"	1 ¼"	16	1 ¼"	1 ¼"	1 ¼"
5	40	1 ½"	1 ½"	21	1 ½"	1 ½"	1 ½"
6	50	2"	2"	29	2"	2"	2"
7	63	2 ½"	2 ½"	36	2 ½"	2 ½"	2 ½"
8	75	3"	3"	42	3"	3"	3"
9	90	3 ½"	3 ½"	48	3 ½"	3 ½"	3 ½"
10	100	4"	4"	-	4"	4"	4"

Other variations available on request

TABLE E

CODE	MATERIAL
1	Aluminum
2	Nylon
4	Stainless Steel 316
5	Nickel Plated Brass

Nominal dimensions shown in this catalog may vary due to material availability. All dimensions shown are in inches unless otherwise stated. Within the parameters of its Explosive Atmosphere certification, CMP Products reserves the right to change the design and/or dimensions of any of the products illustrated without notice. For further information please contact CMP Products.

** When ordered with the integral 'o' ring seal, the accross flats dimension shown may increase to accomodate the 'o' ring.

737

737 ADAPTORS & REDUCERS, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Used for thread conversion
- Wide range of thread types and sizes
- General purpose / industrial version available
- Equipment interface o-ring seal available
- -60˚C to +200˚C (metallic versions)
- Reducers Globally marked:
  - IECEx, ATEX, UL and cCSAus, UKEX
- Adaptors Globally marked:
  - 1 Step up in size: IECEx, ATEX, cCSAus, UKEX
  - 2 Step up in size: IECEx, ATEX, UKEX

Adaptor

Reducer

IP66 IP67 IP68 NEMA 4X

+200˚C
-60˚C

Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel Only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
AVAILABLE MATERIALS	Electroless Nickel Plated Brass, Brass, Nylon, Stainless Steel, Aluminium
CONTINUOUS OPERATING TEMPERATURE	-60°C to +200°C (Metallic), -20°C to +60°C (Nylon)

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

HOW TO ORDER

e.g. 737-D-M-2-M-3-4 = Dual certified Ex d & Ex e – M20 (M) x M25 (F) - Stainless Steel

Please refer to Ordering Guide Tables for reference definitions, denoting material variants. When ordering please notify CMP Products in your order if alternative approval markings are required.

When ordering Adaptors & Reducers always state the Male Thread size first.

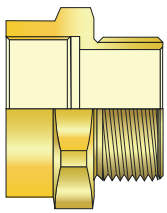
Other thread variations are available on request. For further information on ordering please refer to www.cmp-products.com.

It should be noted that when using CMP Type 737 Thread Conversion Adaptors and Reducers in association with Explosion Protected electrical equipment the following basic rules must be observed in line with good engineering practice:

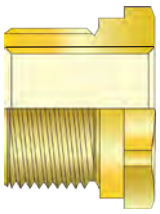
For direct entry Ex d applications, only adaptor or reducer should be used per cable entry.

The female connection thread of a Thread Conversion Adaptor shall "step" not more than two "size" up in the case of a thread gender change. Example; M20 (M) to M32 (F) or M20 (M) to 1" NPT (F) is permitted. Whereas M20 (M) to M40 (F) or M20 (M) to 1½" NPT (F) is not permitted.

CMP 737 Adaptor



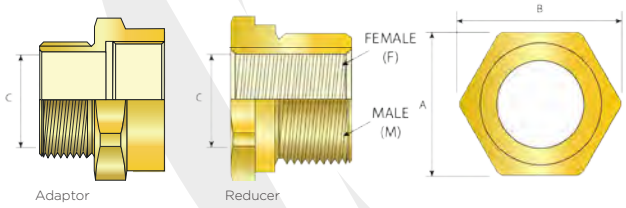
CMP 737 Reducer



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1320X	IECEx CERTIFICATE	IECEx CML18.0177X, IECEx SIM 15.0002X
UKEX CERTIFICATE	CML 21UKEX1238X		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx I M2 Ex db I Mb, Ex eb I Mb (Ⓔx II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da only on Nylon version)	CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da (Ex eb IIC Gb , Ex ta IIIC Da only on nylon version)
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE (20S16 - 100)	1055233	UL CERTIFICATE	E214221 (Reducers with NPT or Metric Threads only)
CODE OF PROTECTION	Class I, Groups A, B, C and D; IP66, 67, 68; Enclosure Type 4X; Class II Groups E, F and G; Class III, Ex de II, Class I, Zone 1, AEx de II; (Not available in Nylon)	CODE OF PROTECTION	Class I Groups A,B,C,D; Class II Groups E,F,G; Class III
COMPLIANCE STANDARDS	C22.2 No.0, 0.5, 30, 94,CAN/CSA 60079-0,1, 7, CAN-CSA 61241-1-1, UL50 Edition 11, UL1203 Edition 4, UL 60079-0,1,7	COMPLIANCE STANDARDS	UL 1203
EAC CERTIFICATE	RU C-GB.АД07.B.02500/20	UkrSEPRO CERTIFICATE	СЦ 19.0372X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003177	INMETRO APPROVAL	TÜV 12.1332X
KCs KOSHA CERTIFICATE	14-GA4BO-0249X		
GOST R INDUSTRIAL CERTIFICATE	POCC GB.HA46.H00140 (applies to non-explosive atmosphere product only)	ECAS CERTIFICATE	20-02-05266
SANS	IA MS-XPL21804 21.0006X		
MARINE APPROVALS	LRS: 01/00173, BV: 43180 A1 BV, ABS: 17-LD1619350-PDA		

737

DIMENSION DATA TABLES



- 1 - Select male thread from the left hand column of Table 'A'
- 2 - Select the female thread size from the top of Table 'A', referenced 'A**' for Adaptor and 'R**' for Reducer
- 3 - Using this code reference, please refer to the corresponding dimensions in Table 'B'

TABLE A - FEMALE THREAD SIZE

TABLE A - MALE THREAD SIZE

		METRIC										NPT									
		M16	M20	M25	M32	M40	M50	M63	M75	M90	M100	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"
METRIC	M16	A01	A04	A08								A03	A08								
	M20	R01	A05	A07	A12							A05	A11	A15							
	M25	R05	R03	A09	A14	A18						R03	A09	A16	A18						
	M32	R06	R06	R06	A17	A19	A24					R06	R06	A17	A19	A24					
	M40	R08	R08	R08	R08	A20	A29	A33				R08	R08	R08	A21	A25	A33				
	M50	R10	R10	R10	R10	R10	A28	A35	A49			R11	R11	R10	R10	A27	A32	A42	A52		
	M63		R12	R12	R12	R12	R12	A37	A48	A53		R12	R12	R12	R12	R12	A37	A44	A53		
	M75		R14	R14	R14	R14	R16	R15	A47	A55	A57		R14	R14	R14	R14	R14	A46	A55	A61	
	M90					R19	R19	R17	R19		A60							R18			
	M100							R20	R20	R20										A58	
NPT	½"	R02	A06	A07	A12							A02	A10	A15							
	¾"	R04	R04	A09	A16	A22						R04	A09	A16	A18						
	1"	R07	R07	R07	A13	A19						R07	R07	A17	A19	A24					
	1¼"	R09	R09	R09	R09	A20	A23					R09	R09	R09	A20	A25	A30				
	1½"		R10	R10	R10	R11	A26	A43				R10	R10	R10	R10	A26	A31	A41			
	2"		R12	R12	R12	R12	R12	A36	A43			R12	R12	R12	R12	R12		A39	A50		
	2½"		R14	R14	R14	R14	R13	R13	A40			R14	R14	R14	R14	R14	R14	A45	A54		
	3"		R17	R19	R19		R18	R19	R19	A56		R17		R18	R18	R18	R18	R19	A51	A59	A62
	3½"				R17		R20	R20	R20	R20				R20	R20	R20	R20	R20	R20		
	4"						R21	R21	R21						R21	R21	R21	R21	R21	R21	

TABLE B - REDUCERS

TABLE A REF.	ACROSS FLATS 'A'	ACROSS CORNERS 'B'
R01	24.0	26.4
R02	27.0	29.7
R03	30.0	33.0
R04	31.5	34.7
R05	31.5	34.7
R06	37.6	41.4
R07	41.0	45.1
R08	46.0	50.6
R09	50.0	55.0
R10	55.0	60.5
R11	60.0	66.0
R12	70.0	77.0
R13	79.0	86.9
R14	80.0	88.0
R15	84.0	92.4
R16	90.2	99.2
R17	95.0	104.5
R18	98.8	108.7
R19	100.0	110.0
R20	110.0	121.0
R21	123.0	135.3
R22	127.0	139.7

TABLE B - ADAPTORS

TABLE A REF.	ACROSS FLATS 'A'	ACROSS CORNERS 'B'	MINIMUM BORE 'C'
A01	22.0	24.2	9.7
A02	24.0	26.4	14.0
A03	24.0	26.4	9.7
A04	24.0	26.4	10.0
A05	24.0	26.4	14.0
A06	27.0	29.7	14.0
A07	30.0	33.0	14.0
A08	30.0	33.0	9.7
A09	30.0	33.0	20.0
A10	30.5	33.6	14.0
A11	31.5	34.7	14.0
A12	36.0	39.6	14.0
A13	36.0	39.6	26.0
A14	37.6	41.4	20.0
A15	41.0	45.1	14.0
A16	41.0	45.1	20.0
A17	41.0	45.1	26.0
A18	46.0	50.6	20.0
A19	46.0	50.6	26.0
A20	46.0	50.6	32.1
A21	50.0	55.0	32.0
A22	50.0	55.0	20.0

TABLE B - ADAPTORS

TABLE A REF.	ACROSS FLATS 'A'	ACROSS CORNERS 'B'	MINIMUM BORE 'C'
A23	55.0	60.5	32.1
A24	55.0	60.5	26.0
A25	55.0	60.5	32.0
A26	55.0	60.5	38.0
A27	55.0	60.5	43.6
A28	59.8	65.8	44.2
A29	60.0	66.0	32.1
A30	65.0	71.5	32.0
A31	65.0	71.5	38.0
A32	65.0	71.5	44.2
A33	70.0	77.0	32.0
A34	70.0	77.0	38.0
A35	70.0	77.0	44.2
A36	70.0	77.0	49.0
A37	70.0	77.0	53.0
A38	70.0	77.0	32.1
A39	79.0	86.9	49.0
A40	79.0	86.9	60.0
A41	80.0	88.0	38.0
A42	80.0	88.0	44.2
A43	80.0	88.0	49.0
A44	80.0	88.0	55.0

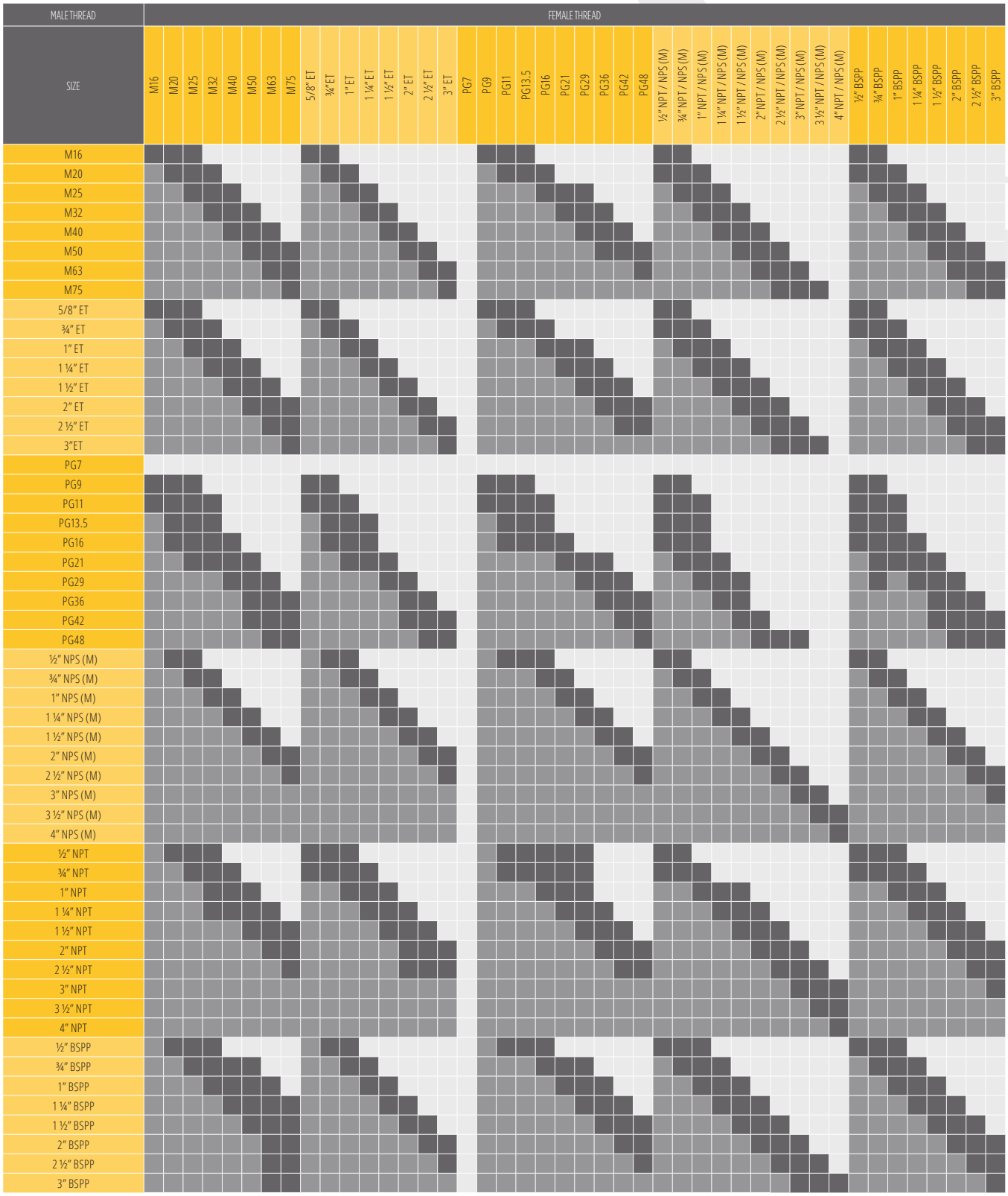
TABLE B - ADAPTORS

TABLE A REF.	ACROSS FLATS 'A'	ACROSS CORNERS 'B'	MINIMUM BORE 'C'
A45	80.0	88.0	60.5
A46	80.0	88.0	65.0
A47	84.0	92.4	68.0
A48	90.2	99.2	53.0
A49	90.2	99.2	42.0
A50	95.0	104.5	49.0
A51	95.0	104.5	75.0
A52	100.0	110.0	44.2
A53	100.0	110.0	55.0
A54	100.0	110.0	60.5
A55	100.0	110.0	64.8
A56	100.0	110.0	75.0
A57	110.0	121.0	61.0
A58	110.0	121.0	75.0
A59	110.0	121.0	75.0
A60	110.0	121.0	79.3
A61	110.0	121.0	68.3
A62	117.5	129.3	75.0

Additional sizes available upon request.
Minimum reducer bore determined by female thread.
Dimensions displayed in millimetres.

737

SIZING TABLE



Ex d, Ex e & Ex ta Certified Reducer

Ex d, Ex e & Ex ta Certified Adaptor

Non-Certified Adaptor

Additional sizes available upon request.
For specific certification information please contact CMP Product.
Adaptors Marked.
1 Step up in size- IECEx, ATEX, cCSAus, UKEX
2 Steps up in size - IECEx, ATEX. UKEX

787

787 90° ADAPTOR, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Protects cables from excessive bending stress
- General purpose / industrial version available
- Supplied with male or female threads
- Can be supplied with thread conversion
- Equipment interface o-ring seal available
- -60˚C to +200˚C
- Globally marked, cCSAus, IECEx, ATEX and UKEX
- Can be used with 737 (not Ex d direct entry applications)

Machined and cast M20 to M50

Machined M63 and above

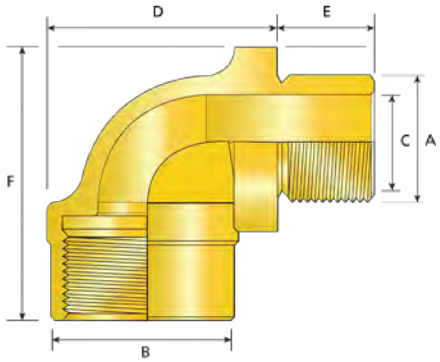
IP66 IP67 IP68

+200˚C
-60˚C

Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel Only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
AVAILABLE MATERIALS	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1319U	IECEx CERTIFICATE	IECEx CML18.0176U, IECEx SIM 17.0009U
UKEX CERTIFICATE	CML 21UKEX1243U		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE (20S16 - 100)	1055233		
CODE OF PROTECTION	Class I, Groups A, B, C and D; IP66, 67, 68; Enclosure Type 4X; Ex de II, Class I, Zone 1, AEx de II;		
COMPLIANCE STANDARDS	C22.2 No. 0, 0.5-M1982, 30, 94, CAN/CSA 60079-0,1,7, UL 50, Edition 11, UL 1203, Edition 4, UL 60079-0,1,7		
EAC CERTIFICATE	Check website for latest certificate number	UkrSEPRO CERTIFICATE	СЦ 19.0370U
RETIE APPROVAL NUMBER	03866	INMETRO APPROVAL	TÜV 12.1335U
CCC CERTIFICATE	2020322313003177	ECAS CERTIFICATE	20-02-05268
SANS	IA MS-XPL21804 21.0005U		
MARINE APPROVALS	LRS: 01/00173, BV: 43180 A1 BV, ABS: 17-LD1619350-PDA		

HOW TO ORDER

e.g. 787 - D - M - 3 - M - 3 - 5
= Dual certified Ex d & Ex e - M25 (M) x M25 (F) - Nickel Plated Brass
Other thread variations are available on request. For further information on ordering please refer to page 163.

PRODUCT SELECTION TABLE

ORDERING REFERENCE	MALE THREAD SIZE 'A'	MINIMUM THREAD LENGTH 'E'	MINIMUM BORE DIAMETER 'C'	FEMALE THREAD SIZE	PROTRUSION LENGTH 'D'	PROTRUSION LENGTH 'F'	WIDTH 'B'
787DM2M2	M20 X 1.5	15.3	14.0	M20 X 1.5	29.6	41.0	24.0
787DM3M3	M25 X 1.5	15.3	18.6	M25 X 1.5	36.3	49.3	29.0
787DM4M4	M32 X 1.5	15.3	25.6	M32 X 1.5	45.2	56.3	36.0
787DM5N5	M40 X 1.5	15.3	33.6	M40 X 1.5	54.2	64.8	44.0
787DM6M6	M50 X 1.5	15.3	41.0	M50 X 1.5	68.3	74.0	54.0
787DM7M7	M63 X 1.5	15.3	50.0	M63 X 1.5	97.0	104.3	75.3
787DM8M8	M75 X 1.5	15.3	61.0	M75 X 1.5	97.0	111.3	79.5
787DM9M9	M90 X 2.0	15.3	80.0	M90 X 2.0	100.0	131.3	110.0
787DM10M10	M100 X 2.0	15.3	91.0	M100 X 2.0	110.0	141.3	115.0

All dimensions shown are in millimetres unless otherwise stated

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

797

797 MALE - MALE OR FEMALE - FEMALE ADAPTOR, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Designed to convert existing threads
- General purpose / industrial version available
- Supplied with male or female threads
- Can be supplied with thread conversion
- Equipment interface o-ring seal available on male-male
- -60˚C to +200˚C
- Globally marked, cCSAus, IECEx, ATEX and UKEX
- Can be used with 737 (not Ex d direct entry applications)

Female - Female

Male - Male

IP66 IP67 IP68

+200˚C
-60˚C

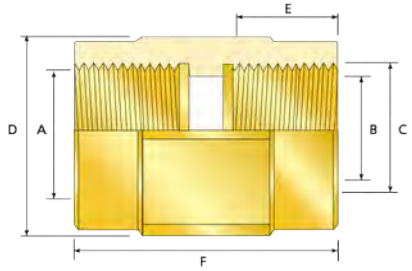
Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION

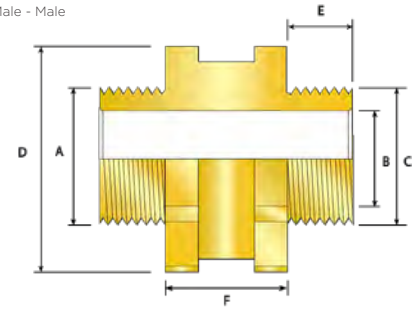
DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel Only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
AVAILABLE MATERIALS	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

Female - Female



Male - Male



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1320X	IECEx CERTIFICATE	IECEx CML18.0177X, IECEx SIM 15.0002X
UKEX CERTIFICATE	CML 21UKEX1238X		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx I M2, Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db I Mb*, Ex eb I Mb*, Ex db IIC Gb , Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE	1055233		
CODE OF PROTECTION	Class I Div 1 and 2, Groups A, B, C and D; IP66, 67, and 68, Enclosure Type 4X; Class I, Zone 1, AEx de II; Ex de II		
COMPLIANCE STANDARDS	C22.2 No. 0, 0.5, 30, 94; CAN/CSA 60079-0,1,7; UL 50, UL 1203; UL 60079-0,1,7		
EAC CERTIFICATE	RU C-GB.АД07.B.02500/20	UkrSEPRO CERTIFICATE	СЦ 19.0372X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313003177	INMETRO APPROVAL	TÜV 12.1332X
ECAS CERTIFICATE	20-02-05266	KCs KOSHA CERTIFICATE	14-GA4BO-0250X
SANS	IA MS-XPL21804 21.0006X		
MARINE APPROVALS	LRS: 01/00173, ABS: 17-LD1619350-PDA		

*Aluminium alloys are not permitted in Group I mining applications.

HOW TO ORDER

e.g. 797 - D - M - 3 - F - M - 3 - F - 5
= Dual certified Ex d & Ex e - M25 (F) x M25 (F) - Nickel Plated Brass
Other thread variations are available on request. For further information on ordering please refer to page 163.

PRODUCT SELECTION TABLE

TYPE	ORDERING REFERENCE	MALE/FEMALE FORWARD THREAD SIZE 'C'	MINIMUM THREAD LENGTH 'E'	MALE/FEMALE REAR THREAD 'A'	ACROSS FLATS 'D'	ACROSS CORNERS 'D'	BORE DIAMETER 'B'	PROTRUSION "F "
Female	797DM1FM1F	M16 X 1.5	15.0	M16 X 1.5	24.0	26.4	10.0	34.0
	797DM2FM2F	M20 X 1.5	15.0	M20 X 15	24.0	25.9	14.0	36.0
	797DM3FM3F	M25 X 1.5	15.0	M25 X 1.5	30.5	33.6	16.0	36.6
	797DM4FM4F	M32 X 1.5	15.0	M32 X 1.5	37.6	41.4	27.7	37.0
	797DM5FM5F	M40 X 1.5	15.0	M40 X 1.5	50.0	54.0	33.0	37.6
	797DM6FM6F	M50 X 1.5	15.0	M50 X 1.5	60.0	66.0	45.5	40.6
	797DM7FM7F	M63 X 1.5	15.0	M63 X 1.5	70.0	77.0	57.5	40.6
	797DM8FM8F	M75 X 1.5	15.0	M75 X 1.5	80.0	88.0	68.2	37.0
	797DM9FM9F	M90 X 2.0	24.0	M90 X 2.0	100.0	110.0	84.7	50.0
	797DM10FM10F	M100 X 2.0	24.0	M100 X 2.0	108.0	118.8	91.0	52.0
Male	797DM1MM1M	M16 X 1.5	15.0	M16 X 1.5	24.0	26.4	10.0	18.9
	797DM2MM2M	M20 X 1.5	15.0	M20 X 15	24.0	26.4	14.0	18.9
	797DM3MM3M	M25 X 1.5	15.0	M25 X 1.5	30.5	33.6	20.0	18.9
	797DM4MM4M	M32 X 1.5	15.0	M32 X 1.5	36.0	39.6	26.5	20.9
	797DM5MM5M	M40 X 1.5	15.0	M40 X 1.5	46.0	50.6	32.2	20.9
	797DM6MM6M	M50 X 1.5	15.0	M50 X 1.5	55.0	60.5	44.1	20.9
	797DM7MM7M	M63 X 1.5	15.0	M63 X 1.5	70.0	77.0	55.6	20.9
	797DM8MM8M	M75 X 1.5	15.0	M75 X 1.5	80.0	88.0	65.6	20.9
	797DM9MM9M	M90 X 2.0	24.0	M90 X 2.0	100.0	110.0	82.0	26.9
	797DM10M10M	M100 X 2.0	24.0	M100 X 2.0	108.0	118.8	90.8	28.9

All dimensions shown are in millimetres unless otherwise stated

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

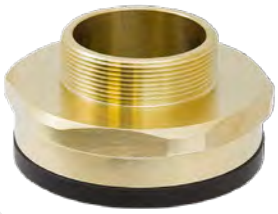
777

777 INSULATED ADAPTOR, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Isolates metallic cable glands from equipment
- Essential in areas of high electromagnetic noise
- Particularly relevant in power plants
- General purpose / industrial version available
- Can be supplied with thread conversion
- -60˚C to +130˚C
- Globally marked, cCSAus, IECEx, ATEX and UKEX

Type A

Type B



IP66 IP67 IP68

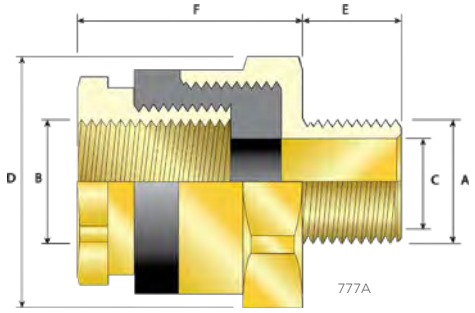
+130˚C
-60˚C

Ex db Ex eb Ex ta

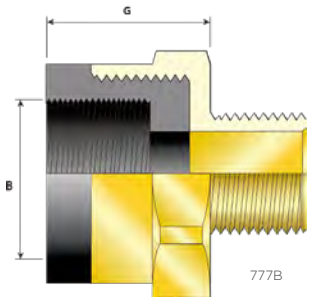
TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel Only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
AVAILABLE MATERIALS	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



777A



777B

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1328U	IECEx CERTIFICATE	IECEx CML 18.0185U
UKEX CERTIFICATE	CML 21UKEX1239U		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE	1055233		
CODE OF PROTECTION	Class I Div 1 and 2, Groups A, B, C and D; IP66, 67, 68; Enclosure Type 4X; DIP A; Class I, Zone 1, AEx de II; Ex de II		
COMPLIANCE STANDARDS	C22.2 No. 0, 0.5, 30, 94; CAN/CSA 60079-0,1,2; UL 50, UL 1203; UL 60079 parts 0,1,7		
EAC CERTIFICATE	Check website for latest certificate number	UkrSEPRO CERTIFICATE	СЦ 19.0370U
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
ECAS CERTIFICATE	20-02-05267	INMETRO APPROVAL	TÜV 12.1331U
SANS	IA S-XPL21804 21.0012U		
MARINE APPROVALS	LRS: 01/00173, ABS: 17-LD1619350-PDA		

HOW TO ORDER

e.g. 777 - D - A - M - 3 - M - 3 - 5

= Dual certified Ex d & Ex e - Type A - M25 (M) x M25 (F) - Nickel Plated Brass

Other thread variations are available on request. For further information on ordering please refer to www.cmp-products.com.

Please note that the Type B version of the 777 insulated adaptors are only certified Ex d when they are installed in conjunction with a corresponding CMP certified cable gland.

PRODUCT SELECTION TABLE

ORDERING REFERENCE TYPE A	ORDERING REFERENCE TYPE B	MALE THREAD SIZE 'A'	MINIMUM THREAD LENGTH 'E'	FEMALE THREAD SIZE 'B' (TYPE A)	FEMALE THREAD SIZE 'B' (TYPE B)	MINIMUM BORE DIAMETER 'C'	NOMINAL PROTRUSION LENGTH 'F' (TYPE A)	NOMINAL PROTRUSION LENGTH 'G' (TYPE B)	ACROSS FLATS 'D'	ACROSS CORNERS 'D'
777DAM2M2	777DBM2M2	M20 X 1.5	15.0	M20 X 1.5	M20 X 1.5	14.0	37.8	26.7	36.0	39.6
777DAM3M3	777DBM3M3	M25 X 1.5	15.0	M25 X 1.5	M25 X 1.5	20.0	38.5	27.2	46.0	50.6
777DAM4M4	777DBM4M4	M32 X 1.5	15.0	M32 X 1.5	M32 X 1.5	25.7	38.0	26.7	55.0	60.5
777DAM5M5	777DBM5M5	M40 X 1.5	15.0	M40 X 1.5	M40 X 1.5	32.1	38.0	26.7	70.0	77.0
777DAM6M6	777DBM6M6	M50 X 1.5	15.0	M50 X 1.5	M50 X 1.5	44.3	39.0	26.7	90.2	99.2
777DAM7M7	777DBM7M7	M63 X 1.5	15.0	M63 X 1.5	M63 X 1.5	55.0	49.5	26.7	100.0	110.0
777DAM8M8	777DBM8M8	M75 X 1.5	15.0	M75 X 1.5	M75 X 1.5	61.0	53.2	40.9	110.0	121.0
777DAM9M9	777DBM9M9	M90 X 2.0	24.0	M90 X 2.0	M90 X 2.0	80.6	57.0	47.2	123.2	135.5

All dimensions shown are in millimetres unless otherwise stated

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

783

783 DUAL ENTRY Y ADAPTOR, INTERNATIONALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Provides an opportunity for two entries
- As standard one male and two female entries
- Supplied with male or female threads upon request
- All angles 120°
- Protects cables from excessive bending stress
- General purpose / industrial version available
- Can be supplied with thread conversion upon request
- -60˚C to +200˚C
- Globally marked, IECEx, ATEX, UKEX and EAC (TC RU)
- Can be used with 737 (not Ex d direct entry applications)

Cast Product

*Machined Product

*Some thread type / size and material combinations will be supplied as a machined product; performance is identical between cast and machined variants. Please contact CMP if further clarification is required.

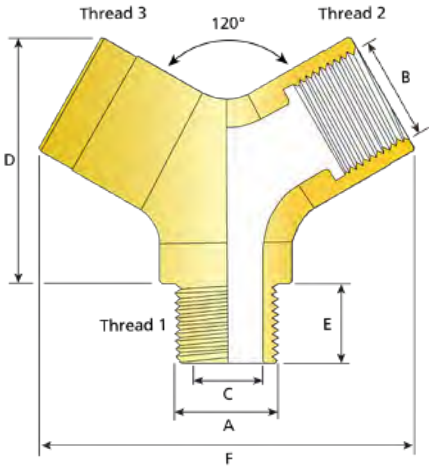
IP66 IP67 IP68

+200˚C
-60˚C

Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel Only
INGRESS PROTECTION RATING**	IP66, IP67 and IP68***
AVAILABLE MATERIALS	Brass, Electroless Nickel Plated Brass, Stainless Steel

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1306U	IECEx CERTIFICATE	IECEx CML18.0171U
UKEX CERTIFICATE	CML 21UKEX1216U		
CODE OF PROTECTION	II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da I M2 Ex db I Mb, Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb,
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
EAC CERTIFICATE	RU C-GB.АД07.B.02491/20		
MARINE APPROVALS	ABS: 17-LD1619350-PDA		
CCC CERTIFICATE	2020322313003191		
UkrSEPRO CERTIFICATE	СЦ 19.0370U		
CCOE / PESO (INDIA) CERTIFICATE	P444949		
ECAS CERTIFICATE	20-02-05269		
SANS	IA MS-XPL21804 21.0001U		

HOW TO ORDER

e.g. 783 - D - M - 2 - M - M - 2 - F - M - 2 - F - 5
= Dual certified Ex d & Ex e - M20 (M) x M20 (F) x M20 (F) - Nickel Plated Brass
* Any combination of Male (M) / Female (F) threads is available e.g.
(M) X (M) X (M), (F) X (F) X (F), (M) X (F) X (M)
Other thread variations are available on request. For further information on ordering please refer to page 163.

PRODUCT SELECTION TABLE

ORDERING REFERENCE	MINIMUM BORE DIAMETER 'C'	THREAD 1 'A' (ENTRY THREAD)	THREAD 2 'B'	THREAD 3 'B'	THREAD LENGTH 'E'	PROTRUSION LENGTH 'D'	PROTRUSION LENGTH 'F'	WIDTH
783DM2MM2FM2F	14.1	M20	M20	M20	15.0	48.0	73.0	25 - 27
*783DM3M2FM2F	14.1	M25	M20	M20	15.0	48.0	71.9	30 - 32
783DT1MT1FT1F	14.1	½" NPT	½" NPT	½" NPT	19.9	43.0	73.0	25 - 27
783DM3MM3FM3F	18.1	M25	M25	M25	15.0	48.0	76.9	30 - 32
783DT2MT2FT2F	18.1	¾" NPT	¾" NPT	¾" NPT	20.2	48.0	76.9	30 - 32
*783DT3MT2FT2F	18.1	1" NPT	¾" NPT	¾" NPT	25.0	54.7	79.4	37 - 39
783DM4MM4FM4F	25.1	M32	M32	M32	15.0	56.5	92.5	37 - 39
783DT3MT3FT3F	25.1	1" NPT	1" NPT	1" NPT	25.0	56.5	92.5	37 - 39

All dimensions shown are in millimetres unless otherwise stated

* Machined product

717

717 NYLON UNIVERSAL STOPPER PLUG, CONDUIT ACCESSORY

- Provides means of blanking unused cable entries
- Cost effective moulded design
- Universal tightening design (hex head, allen key and slotted/flat screw head)
- Temporary or permanent
- Available in a variety of colours
- Approved entry thread sealing washer available
- -60 to +105°C
- UL94 V-0 approved material available

IP66 IP67 IP68

COLOUR	SUFFIX	METRIC ORDERING EXAMPLE	NPT ORDERING EXAMPLE
BLACK - RAL9011	-	717GM2	717GT1
GREY - RAL7035	1	717GM21	717GT11
GREY - RAL7001	2	717GM22	717GT12
WHITE	3	717GM23	717GT13
BLUE - RAL5015	4	717GM24	717GT14
RED - RAL3000	5	717GM25	717GT15

TECHNICAL CLASSIFICATION		
INGRESS PROTECTION RATING		*MINIMUM IP68 DEPTH AND DURATION
WITHOUT ENTRY THREAD SEAL FITTED	IP66,IP67,IP68**,IP69,IP69K	1.1 metres for 16 hours**
WITH ENTRY THREAD SEAL FITTED	IP66,IP67,IP68**,IP69,IP69K	30 metres for 16 hours**
AVAILABLE MATERIALS	Halogen-free Polyamide	
CONTINUOUS OPERATING TEMPERATURE	-60°C to +105°C	

**Alternative depths / durations can be provided upon request.

DESCRIPTION	ALLEN KEY RECESS	METALLIC			NON-METALLIC	
		Ex 'd'	Ex 'e'	INDUSTRIAL	Ex 'e'	INDUSTRIAL
747 RECESSED NON-TAMPER PROOF TYPE 'A'	√	√	√	√	√	√
747 RECESSED TAMPER-PROOF TYPE 'B'	√	√	√	√	√	√
757 HEXAGON HEAD	x	√	√	√	√	√
757 HEXAGON HEAD C/W O-RING SEAL	x	√	√	√	√	√
767 DOME HEAD	√	√	√	√	√	√
767 DOME HEAD C/W O-RING SEAL	√	√	√	√	√	√
717 UNIVERSAL	√	x	x	x	√	√

PRODUCT SELECTION TABLE					
ORDERING REFERENCE	THREAD SIZE	MINIMUM THREAD LENGTH	ACROSS FLATS	ACROSS CORNERS DIAMETER	PROTRUSION LENGTH
717GM2	M20	10.0	24.0	26.3	7.0
717GM3	M25	10.0	28.0	30.7	7.0
717GM4	M32	10.0	38.0	41.7	8.0
All dimensions shown are in millimetres unless otherwise stated					

Ordering reference shown for black metric product

PRODUCT SELECTION TABLE - NPT					
ORDERING REFERENCE	THREAD SIZE	MINIMUM THREAD LENGTH	ACROSS FLATS	ACROSS CORNERS DIAMETER	PROTRUSION LENGTH
717GM2	1/2"	14.0	24.0	26.3	7.0
717GM3	3/4"	14.0	28.0	30.7	7.0
717GM4	1"	14.0	38.0	41.7	8.0
All dimensions shown are in millimetres unless otherwise stated					

Ordering reference shown for black NPT product
For additional sizes please refer to stopper plug range at www.cmp-products.com

717e Ex

717e NYLON UNIVERSAL STOPPER PLUG, EXPLOSIVE ATMOSPHERE Ex e CONDUIT ACCESSORY

- Provides means of blanking unused cable entries
- Cost effective moulded design
- Universal tightening design (hex head, allen key and slotted/flat screw head)
- Temporary or permanent
- Available in blue for intrinsically safe circuits
- Approved entry thread sealing washer available
- -60 to +95°C

IP66 IP67 IP68 IP69K

CE UV +95°C -60°C

Ex eb Ex ta

COLOUR		SUFFIX	METRIC ORDERING EXAMPLE	NPT ORDERING EXAMPLE
BLACK - RAL9011		-	717EM2	717ET1
BLUE - RAL5015		4	717EM24	717ET14

TECHNICAL CLASSIFICATION

INGRESS PROTECTION RATING		*MINIMUM IP68 DEPTH AND DURATION
WITHOUT ENTRY THREAD SEAL FITTED	IP66,IP67,IP68**,IP69,IP69K	1.1 metres for 16 hours**
WITH ENTRY THREAD SEAL FITTED	IP66,IP67,IP68**,IP69,IP69K	30 metres for 16 hours**

AVAILABLE MATERIALS	Halogen-free Polyamide
CONTINUOUS OPERATING TEMPERATURE	-60°C to +95°C

**Alternative depths / durations can be provided upon request.

GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML20ATEX3054X	IECEx CERTIFICATE	IECEx CML 20.0038X
UKEX CERTIFICATE	CML 21UKEX3237X		
CODE OF PROTECTION	Ex II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0, 7, 31	COMPLIANCE STANDARDS	IEC 60079-0, 7, 31
EAC CERTIFICATE	RU C-GB.АД 07.B.02495/20	CCC CERTIFICATE	2020322313001727

DESCRIPTION	ALLEN KEY RECESS	METALLIC			NON-METALLIC	
		Ex 'd'	Ex 'e'	INDUSTRIAL	Ex 'e'	INDUSTRIAL
747 RECESSED NON-TAMPER PROOF TYPE 'A'	√	√	√	√	√	√
747 RECESSED TAMPER-PROOF TYPE 'B'	√	√	√	√	√	√
757 HEXAGON HEAD	x	√	√	√	√	√
757 HEXAGON HEAD C/W O-RING SEAL	x	√	√	√	√	√
767 DOME HEAD	√	√	√	√	√	√
767 DOME HEAD C/W O-RING SEAL	√	√	√	√	√	√
717 UNIVERSAL	√	x	x	x	√	√

PRODUCT SELECTION TABLE - METRIC

ORDERING REFERENCE	THREAD SIZE	MINIMUM THREAD LENGTH	ACROSS FLATS	ACROSS CORNERS DIAMETER	PROTRUSION LENGTH	ALLEN KEY SIZE
717EM2	M20	10.0	24.0	26.3	7.0	8
717EM3	M25	10.0	28.0	30.7	7.0	10
717EM4	M32	10.0	38.0	41.7	8.0	10

All dimensions shown are in millimetres unless otherwise stated

Ordering reference shown for black metric product

PRODUCT SELECTION TABLE - NPT

ORDERING REFERENCE	THREAD SIZE	MINIMUM THREAD LENGTH	ACROSS FLATS	ACROSS CORNERS DIAMETER	PROTRUSION LENGTH	ALLEN KEY SIZE
717ET1	1/2"	14.0	24.0	26.3	7.0	8
717ET2	3/4"	14.0	28.0	30.7	7.0	10
717ET3	1"	14.0	38.0	41.7	8.0	10

All dimensions shown are in millimetres unless otherwise stated

Ordering reference shown for black NPT product
For additional sizes please refer to stopper plug range at www.cmp-products.com

747

747 RECESSED STOPPER PLUG, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Provides means of blanking unused cable entries
- Temporary or permanent
- Tamper-proof (Type B) version available
- General purpose / industrial version available
- Nylon Ex e only version available (-20˚C to +60˚C)
- -60˚C to +200˚C (metallic versions)
- Globally marked, UKEX, IECEx, ATEX, cCSAus and UL (Metallic versions only)
- For use with threaded entry holes only - for stopper plugs suitable for use in clearance/through holes, please see 757 or 767
- Nylon stopper 717 / 717e to be used for sizes M20, M25, M32, 1/2", 3/4" and 1"

Type A

Type B

IP66

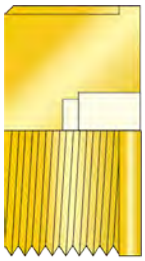
+200˚C
-60˚C

Ex db Ex eb Ex ta

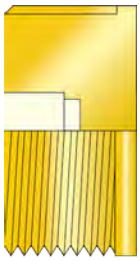
TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
INGRESS PROTECTION RATING	IP66
AVAILABLE MATERIALS	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel, Nylon
CONTINUOUS OPERATING TEMPERATURE	-60°C to +200°C (Metallic), -20°C to +60°C (Nylon)

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1320X	IECEx CERTIFICATE	IECEx CML 18.0177X, IECEx SIM 15.0002X
UKEX CERTIFICATE	CML 21UKEX1238X		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx I M2 Ex db I Mb, Ex eb I Mb (II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da only on Nylon version)	CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb; Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da (Ex eb IIC Gb, Ex ta IIIC Da only on Nylon version)
COMPLIANCE STANDARDS	EN 60079-0,1,7, 31	COMPLIANCE STANDARDS	IEC 60079-0,1, 7, 31
cCSAus CERTIFICATE	1055233 (Metallic versions only)	UL CERTIFICATE	E214221 (Metallic versions only)
CODE OF PROTECTION	Class I, Groups A, B, C and D; IP66, 67, 68; Enclosure Type 4X; Class II Groups E, F and G; Class III Ex de II, Class I, Zone 1, AEx de II	CODE OF PROTECTION	Class I, Groups A,B,C, and D; Class II Groups E,F, and G; Class III
COMPLIANCE STANDARDS	C22.2 No. 0, 0.5, 30,94, CSA C22.2 60079, 0, 1, 7, UL50, UL1203, UL 60079-0, 1, 7	COMPLIANCE STANDARDS	UL 1203
EAC CERTIFICATE	RU C-GB.АД07.B.02500/20	UkrSEPRO CERTIFICATE	СЦ 19.0372X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313001727	INMETRO APPROVAL	TÜV 12.1333X
KCs KOSHA CERTIFICATE	14-GA4BO-0248X	ECAS CERTIFICATE	20-02-05266
SANS	IA MS-XPL21804 21.0006X		
MARINE APPROVALS	LRS: 01/00173 DNV: TAE000000Y ABS: 17-LD1619350-PDA, BV: 43180		

747 Type A
Non tamper-proof



747 Type B
Tamper-proof



DESCRIPTION	ALLEN KEY RECESS	METALLIC			NON-METALLIC	
		Ex 'd'	Ex 'e'	INDUSTRIAL	Ex 'e'	INDUSTRIAL
747 RECESSED NON-TAMPER PROOF TYPE 'A'	√	√	√	√	√	√
747 RECESSED TAMPER-PROOF TYPE 'B'	√	√	√	√	√	√
757 HEXAGON HEAD	x	√	√	√	√	√
757 HEXAGON HEAD C/W O-RING SEAL	x	√	√	√	√	√
767 DOME HEAD	√	√	√	√	√	√
767 DOME HEAD C/W O- RING SEAL	√	√	√	√	√	√
717 UNIVERSAL	√	x	x	x	√	√

HOW TO ORDER

e.g. 747 - D - A - M - 3 - 1

= Dual certified Ex d & Ex e- Type A - M25 - Aluminium

For Tamper-Proof Type B Stopper Plugs please substitute the letter A with the letter B in the ordering reference list opposite.

Other thread variations are available on request. For further information on ordering please refer to the Ordering Accessories page.

PRODUCT SELECTION TABLE

ORDERING REFERENCE	THREAD SIZE	MINIMUM THREAD LENGTH	ALLEN KEY SIZE A/F
747DAM1	M16 X 1.5	15.0	M8
747DAM2	M20 X 1.5	15.0	M10
747DAM3	M25 X 1.5	15.0	M10
747DAM4	M32 X 1.5	15.0	M10
747DAM5	M40 X 1.5	15.0	M10
747DAM6	M50 X 1.5	15.0	M10
747DAM7	M63 X 1.5	15.0	M14
747DAM8	M75 X 1.5	15.0	M14
747DAM9	M90 X 2.0	24.0	M14
747DAM10	M100 x 2.0	24.0	M14

All dimensions shown are in millimetres unless otherwise stated

If a nylon stopper is required for sizes M20, M25, M32, 1/2", 3/4" and 1" please order 717 (see datasheet TDS811) or 717e (TDS823).

757

757 HEXAGON HEAD STOPPER PLUG, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Provides means of blanking unused cable entries
- Temporary or permanent
- General purpose / industrial version available
- Equipment interface o-ring seal available
- -60˚C to +200˚C (metallic versions), -20˚C to +60˚C (Nylon Ex e)
- Globally marked, UKEX, IECEx, ATEX, cCSAus and UL (metallic versions only)
- Nylon stopper 717 / 717e to be used for sizes M20, M25, M32, ½", ¾" and 1"

IP66 IP67 IP68

+200˚C
-60˚C

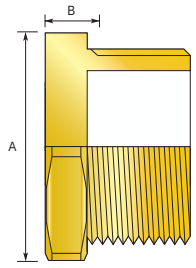
Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION

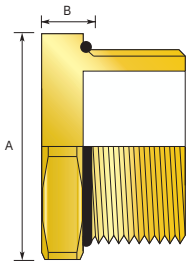
DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
AVAILABLE MATERIALS	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel, Nylon
CONTINUOUS OPERATING TEMPERATURE	-60°C to +200°C (Metallic), -20°C to +60°C (Nylon)

* Dimensions shown for metric threads alternative thread dimensions may vary ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.

757 Series Stopper Plug



757 Series Stopper Plug with optional o-ring



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1320X	IECEx CERTIFICATE	IECEx CML 18.0177X, IECEx SIM 15.0002X
UKEX CERTIFICATE	CML 21UKEX1238X		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx I M2 Ex db I Mb, Ex eb I Mb (II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da only on Nylon version)	CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb; Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da (Ex eb IIC Gb, Ex ta IIIC Da only on Nylon version)
COMPLIANCE STANDARDS	EN 60079-0,1,7, 31	COMPLIANCE STANDARDS	IEC 60079-0,1, 7, 31
cCSAus CERTIFICATE	1055233 (Metallic versions only)	UL CERTIFICATE	E214221 (Metallic versions only)
CODE OF PROTECTION	Class I, Groups A, B, C and D; IP66, 67, 68; Enclosure Type 4X; Class II Groups E, F and G; Class III Ex de II, Class I, Zone 1, AEx de II	CODE OF PROTECTION	Class I, Groups A,B,C, and D; Class II Groups E,F, and G; Class III
COMPLIANCE STANDARDS	C22.2 No. 0, 0.5, 30,94, CSA C22.2 60079, 0, 1, 7, UL50, UL1203, UL 60079-0, 1, 7	COMPLIANCE STANDARDS	UL 1203
EAC CERTIFICATE	RU C-GB.АД07.B.02500/20	UkrSEPRO CERTIFICATE	СЦ 19.0372X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313001727	INMETRO APPROVAL	TÜV 12.1333X
KCs KOSHA CERTIFICATE	14-GA4BO-0255X	ECAS CERTIFICATE	20-02-05266
SANS	IA MS-XPL21804 21.0006X		
MARINE APPROVALS	LRS: 01/00173 DNV: TAE000000Y ABS: 17-LD1619350-PDA, BV: 43180		

HOW TO ORDER

e.g. 757 - D - M - 3 - 1
= Dual certified Ex d & Ex e - M25 - Aluminium

Other thread variations are available on request. For further information on ordering please refer to the Ordering Accessories page. When ordered with the integral o-ring seal the across flats dimension shown may increase to accommodate the o-ring.

CMP STOPPER PLUGS

DESCRIPTION	ALLEN KEY RECESS	METALLIC			NON-METALLIC	
		Ex 'd'	Ex 'e'	INDUSTRIAL	Ex 'e'	INDUSTRIAL
747 RECESSED NON-TAMPER PROOF TYPE 'A'	√	√	√	√	√	√
747 RECESSED TAMPER-PROOF TYPE 'B'	√	√	√	√	√	√
757 HEXAGON HEAD	x	√	√	√	√	√
757 HEXAGON HEAD C/W O-RING SEAL	x	√	√	√	√	√
767 DOME HEAD	√	√	√	√	√	√
767 DOME HEAD C/W O-RING SEAL	√	√	√	√	√	√
717 UNIVERSAL	√	x	x	x	√	√

PRODUCT SELECTION TABLE*

ORDERING REFERENCE	THREAD SIZE	MINIMUM THREAD LENGTH	ACROSS FLATS 'A'	ACROSS CORNERS 'A'	PROTRUSION LENGTH 'B'
757DM1	M16 X 1.5	15.0	22.0	24.2	5.0
757DM2	M20 X 1.5	15.0	24.0	26.4	5.0
757DM3	M25 X 1.5	15.0	30.0	33.0	5.0
757DM4	M32 X 1.5	15.0	36.0	39.6	5.0
757DM5	M40 X 1.5	15.0	46.0	50.6	5.0
757DM6	M50 X 1.5	15.0	55.0	60.5	5.0
757DM7	M63 X 1.5	15.0	70.0	77.0	5.0
757DM8	M75 X 1.5	15.0	80.0	88.0	5.0
757DM9	M90 X 2.0	24.0	99.0	108.9	5.0
757DM10	M100 x 2.0	24.0	108.0	118.8	5.0

All dimensions shown are in millimetres unless otherwise stated

If a nylon stopper is required for sizes M20, M25, M32, 1/2", 3/4" and 1" please order 717 (see datasheet TDS811) or 717e (TDS823).

767

767 DOME HEAD STOPPER PLUG, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Provides means of blanking unused cable entries
- Temporary or permanent
- General purpose / industrial version available
- Equipment interface o-ring seal available
- Nylon Ex e only version available (-20˚C to +60˚C)
- -60˚C to +200˚C (metallic versions)
- Globally marked, UKEX, IECEx, ATEX, cCSAus and UL (metallic versions only)
- Nylon stopper 717 / 717e to be used for sizes M20, M25, M32, ½", ¾" and 1"

IP66 IP67 IP68

+200˚C ↑ -60˚C

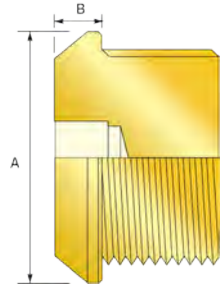
Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
AVAILABLE MATERIALS	Brass, Electroless Nickel Plated Brass, Aluminium, Stainless Steel, Nylon
CONTINUOUS OPERATING TEMPERATURE	-60°C to +200°C (Metallic), -20°C to +60°C (Nylon)

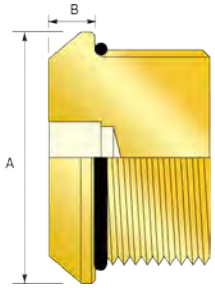
** When CMP installation accessories are used. Refer to www.cmp-products.com for further information. *** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1320X	IECEx CERTIFICATE	IECEx CML 18.0177X, IECEx SIM 15.0002X
UKEX CERTIFICATE	CML 21UKEX1238X		
CODE OF PROTECTION	II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da I M2 Ex db I Mb, Ex eb I Mb (II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da only on Nylon version)	CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb; Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da (Ex eb IIC Gb, Ex ta IIIC Da only on Nylon version)
COMPLIANCE STANDARDS	EN 60079-0,1,7, 31	COMPLIANCE STANDARDS	IEC 60079-0,1, 7, 31
cCSAus CERTIFICATE	1055233 (Metallic versions only)	UL CERTIFICATE	E214221 (Metallic versions only)
CODE OF PROTECTION	Class I, Groups A, B, C and D; IP66, 67, 68; Enclosure Type 4X; Class II Groups E, F and G; Class III Ex de II, Class I, Zone 1, AEx de II	CODE OF PROTECTION	Class I, Groups A,B,C, and D; Class II Groups E,F, and G; Class III
COMPLIANCE STANDARDS	C22.2 No. 0, 0.5, 30,94, CSA C22.2 60079, 0, 1, 7, UL50, UL1203, UL 60079-0, 1, 7	COMPLIANCE STANDARDS	UL 1203
EAC CERTIFICATE	RU C-GB.АД07.B.02500/20	UkrSEPRO CERTIFICATE	СЦ 19.0372X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
CCC CERTIFICATE	2020322313001727	INMETRO APPROVAL	TÜV 12.1333X
KCs KOSHA CERTIFICATE	14-GA4BO-0248X	ECAS CERTIFICATE	20-02-05266
SANS	IA MS-XPL21804 21.0006X		
MARINE APPROVALS	LRS: 01/00173 DNV: TAE000000Y ABS: 17-LD1619350-PDA, BV: 43180		

767 Series Stopper Plug



767 Series Stopper Plug with optional o-ring



HOW TO ORDER

e.g. 767 - D - M - 3 - 1

= Dual certified Ex d & Ex e - M25 - Aluminium

Other thread variations are available on request. For further information on ordering please refer to the Ordering Accessories page.

When ordered with the integral o-ring seal the head diameter 'A' dimension shown may increase to accommodate the o-ring.

DESCRIPTION	ALLEN KEY RECESS	METALLIC			NON-METALLIC	
		Ex 'd'	EX 'e'	INDUSTRIAL	Ex 'e'	INDUSTRIAL
747 RECESSED NON-TAMPER PROOF TYPE 'A'	√	√	√	√	√	√
747 RECESSED TAMPER-PROOF TYPE 'B'	√	√	√	√	√	√
757 HEXAGON HEAD	x	√	√	√	√	√
757 HEXAGON HEAD C/W O-RING SEAL	x	√	√	√	√	√
767 DOME HEAD	√	√	√	√	√	√
767 DOME HEAD C/W O-RING SEAL	√	√	√	√	√	√
717 UNIVERSAL	√	x	x	x	√	√

PRODUCT SELECTION TABLE

ORDERING REFERENCE	THREAD SIZE	MINIMUM THREAD LENGTH	HEAD DIAMETER 'A'	PROTRUSION LENGTH 'B'	ALLEN KEY SIZE A/F
767DM1	M16 X 1.5	15.0	22.0	5.5	M8
767DM2	M20 X 1.5	15.0	27.0	5.5	M10
767DM3	M25 X 1.5	15.0	30.0	5.5	M10
767DM4	M32 X 1.5	15.0	36.0	5.5	M10
767DM5	M40 X 1.5	15.0	46.0	5.5	M10
767DM6	M50 X 1.5	15.0	55.0	5.5	M10
767DM7	M63 X 1.5	15.0	68.0	5.5	M10
767DM8	M75 X 1.5	15.0	80.0	5.5	M14
767DM9	M90 X 2.0	24.0	95.0	5.5	M14
767DM10	M100 x 2.0	24.0	108.0	5.5	M14

All dimensions shown are in millimetres unless otherwise stated

If a nylon stopper is required for sizes M20, M25, M32, ½", ¾" and 1" please order 717 (see datasheet TDS811) or 717e (TDS823).

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

781

781 BREATHER / DRAIN PLUG, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- 781E for Ex e use
- 781D for Ex d use
- Drains equipment susceptible to moisture collection
- Enables equipment to breathe
- General purpose / industrial version available
- Nylon Ex e only version available (-20˚C to +60˚C)
- -60˚C to +130˚C (metallic versions)
- Globally marked, UKEX, IECEx, ATEX and cCSAus
- The 781D can be used with enclosures up to 30 litres for group IIB gases and enclosures up to 2.5 litres for group IIC gases
- No enclosure volume restrictions apply to 781E

Type E

Type D

IP66

+130˚C
-60˚C

Ex db Ex eb Ex ta

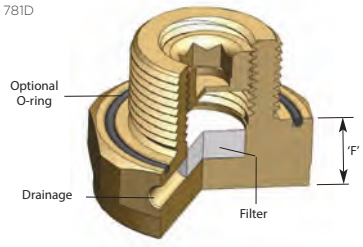
TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel Only
INGRESS PROTECTION RATING**	781D: IP66 (when fitted with CMP sealing accessories) 781E: IP66 (with o-ring interface seal and lock nut as standard)
AVAILABLE MATERIALS	Brass, Nickel Plated Brass, Aluminium, Stainless Steel, Nylon (781E only)
CONTINUOUS OPERATING TEMPERATURE	781D: -60°C to +130°C 781E: -60°C to +130°C (-20°C to +60°C Nylon)
ACCESSORIES INCLUDED (781E ONLY)	Integral Entry Thread equipment interface o-ring seal, Castellated Locknut

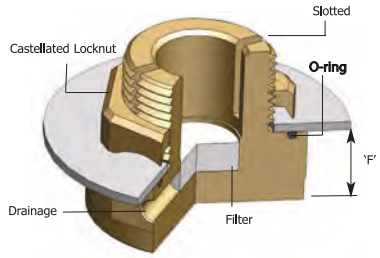
** When CMP installation accessories are used (781E). Refer to www.cmp-products.com for further information.

The 781D can be used with enclosures up to 30 litres for group IIB gases and enclosures up to 2.5 litres for group IIC gases. No enclosure volume restrictions apply to 781E.

781D



781E



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML 18ATEX1330U	IECEx CERTIFICATE	IECEx CML 18.0187U
UKEX CERTIFICATE	CML 21UKEX1241U		
CODE OF PROTECTION	781D: ⟨Ex⟩ II 2G 1D Ex db IIC Gb, Ex ta IIIC Da 781E: ⟨Ex⟩ II 2G 1D Ex eb IIC Gb, Ex ta IIIC Da	CODE OF PROTECTION	781D: Ex db IIC Gb, Ex ta IIIC Da 781E:Ex eb IIC Gb, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE (20S16 - 100)	1055233	UL CERTIFICATE	E253914
CODE OF PROTECTION	781D: Ex d IIC, Class I, Zone 1 AEx d IIC; Class I Div 1, Groups A,B,C,D, Enclosure Type 4X 781E: Ex e II, Class I, Zone 1, AEx e II, Enclosure Type 4X	CODE OF PROTECTION	781D: Class I, Zone 1, AEx d IIB or IIC; Zone 20, AEx ta IIIC 781E: Class I, Zone 1, AEx e IIC
COMPLIANCE STANDARDS	CSA C22.2 No 0-10, 0.5, 30, 94; CSA C22.2 60079-0,1,7, E61241-1-1, UL50, 1203, UL60079-0,1,7	COMPLIANCE STANDARDS	UL 60079-0, 1, 7, 31
EAC CERTIFICATE	RU C-GB.АД07.B.02492/20		
COMPLIANCE STANDARDS	1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X, IP66, IP67, IP68		
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
ECAS CERTIFICATE	20-02-05264	UkrSEPRO CERTIFICATE	СЦ 19.0370U
MARINE APPROVALS	LRS: 01/00173	KCS CERTIFICATE	781E: 19-AV4BO-0255X, 781D: 19-AV4BO-0254X
INMETRO APPROVAL	TÜV 12.1330U		
SANS	IA S-XPL21962 21.0304U		

HOW TO ORDER

e.g. 781 - D - M - 3 = Ex d - M25

e.g. 781 - E - M - 3 = Ex e - M25

Other thread variations are available on request. For further information on ordering please refer to the Ordering Accessories page.

The CMP 781E range of Increased Safety type 'e' breather / drain plugs have been tested together with CMP serrated washers to ensure that in areas that are subject to vibration the plug does not suffer from self-loosening and inadvertently fall out of the enclosure. Serrated washers are not included as standard but can be ordered separately.

PRODUCT SELECTION TABLE

ORDERING REFERENCE (781D)	ORDERING REFERENCE (781E)	THREAD SIZE	MINIMUM THREAD LENGTH	PROTRUSION LENGTH 'F'	ACROSS FLATS DIMENSION	ACROSS CORNERS DIMENSIONS
781DM2	781EM2	M20 x 1.5	15.0	12.7	30.0	33.0
781DM3	781EM3	M25 x 1.5	15.0	12.7	36.0	39.6
781DT1	781ET1	½" NPT	19.9	12.7	30.0	33.0
781DT2	781ET2	¾" NPT	20.2	12.7	36.0	39.6

All dimensions shown are in millimetres unless otherwise stated

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

780

780 IN-LINE UNION, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General purpose / industrial version available
- Equipment interface 'O' ring seal available
- -60˚C to 200˚C
- Globally marked, UKEX, IECEx, ATEX & cCSAus

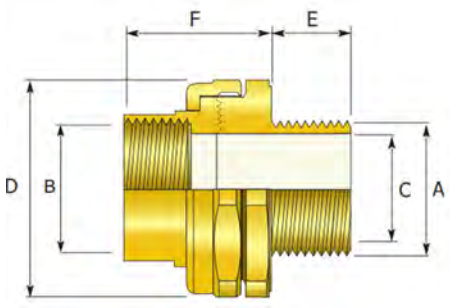
IP66

+200˚C
-60˚C

Ex eb Ex db Ex ta

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66
AVAILABLE MATERIALS	Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1327X	IECEx CERTIFICATE	IECEx CML 18.0190X
UKEX CERTIFICATE	CML 21UKEX1240X		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx I M2 Ex db I Mb , Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE	1055233		
CODE OF PROTECTION	Class I, Div 1 & 2, Groups A,B,C,D ; Enclosure type 4X : Class I, Zone 1, AEx de II ; Ex de II		
COMPLIANCE STANDARDS	C22.2 No.0,0.5,30,94, CAN/CSA 60079-0,1,7, CAN/CSA E61241-1-1, UL Std 50, 1203, UL 60079-0,1,7		
EAC CERTIFICATE	Check website for latest certificate number	UkrSEPRO CERTIFICATE	СЦ 19.0372X
CCC CERTIFICATE	2020322313003177	INMETRO APPROVAL	TÜV 18.2088X
ECAS CERTIFICATE	20-02-05272	CCOE /PESO (INDIA) CERTIFICATE	P444949
SANS	IA MS-XPL21962 21.0303X		
MARINE APPROVALS	LRS: 01/00173		

Male-to-Male thread option available.

Available with an equipment interface 'O' ring seal. For such options please add the suffix letter "R" after the type number in the ordering reference above, e.g. 780RDM2M2.

If 2 separate enclosures are required to be connected together please contact CMP Products.

PRODUCT SELECTION TABLE

METRIC					NPT							
ORDERING REFERENCE (BRASS, METRIC)	MALE FORWARD THREAD SIZE 'A'	MINIMUM THREAD LENGTH 'E'	FEMALE REAR THREAD SIZE 'B'	BORE DIAMETER 'C'	ORDERING REFERENCE (BRASS, NPT)	MALE FORWARD NPT THREAD SIZE 'A'	MINIMUM NPT THREAD LENGTH 'E' (IN)	FEMALE REAR THREAD SIZE 'B'	BORE DIAMETER 'C'	MAX PROTRUSION LENGTH 'F'	ACROSS FLATS HEX 'D'	ACROSS CORNERS Ø 'D'
780DM2M2	M20 X 1.5	15.0	M20 X 1.5	14.3	780DT1T1	½"	0.79	½"	14.3	36.0	41.0	45.1
780DM3M3	M25 X 1.5	15.0	M25 X 1.5	20.1	780DT2T2	¾"	0.80	¾"	20.1	36.0	46.0	50.6
780DM4M4	M32 X 1.5	15.0	M32 X 1.5	26.4	780DT3T3	1"	0.98	1"	26.4	36.0	52.0	57.2
780DM5M5	M40 X 1.5	15.0	M40 X 1.5	32.6	780DT4T4	1¼"	1.01	1¼"	32.6	36.0	60.0	66.0
780DM6M6	M50 X 1.5	15.0	M50 X 1.5	44.2	780DT5T5	1½"	1.03	1½"	40.3	36.0	70.1	77.1
780DM7M7	M63 X 1.5	15.0	M63 X 1.5	56.1	780DT6T6	2"	1.06	2"	50.4	36.0	79.0	86.9
780DM8M8	M75 X 1.5	15.0	M75 X 1.5	68.1	780DT7T7	2½"	1.57	2½"	60.0	41.0	89.9	98.9
780DM9M9	M90 X 2.0	24.0	M90 X 2.0	80.1	780DT8T8	3"	1.63	3"	75.0	41.0	110.0	121.0

All dimensions shown are in millimetres unless otherwise stated

For material options please add the following suffix to the ordering reference; Brass (no suffix required), Nickel Plated Brass "5", 316 Grade Stainless Steel "4", Copper Free Aluminium "1"

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

PX780REX

RAPID Ex

PX780REX IN-LINE UNION, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE GLAND / CONDUIT SEALING DEVICE

- RapidEx liquid pour sealing system reduces installation time
- Allows the connection of conduit or other non-barrier sealing cable glands to equipment
- Suitable for rigid or flexible conduit
- Integral union coupling permits disconnection and eliminates the need to rotate the conduit or equipment
- General purpose / industrial version available
- Equipment interface o-ring seal available
- -60˚C to +85˚C
- Globally marked, UKEX, IECEx, ATEX and cCSAus

IP66

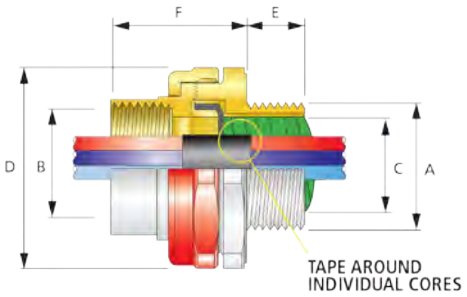
+85˚C
-60˚C

Ex db | Ex eb | Ex ta

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
INGRESS PROTECTION RATING**	IP66
AVAILABLE MATERIALS	Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML 18ATEX1327X	IECEx CERTIFICATE	IECEx CML 18.0190X
UKEX CERTIFICATE	CML 21UKEX1240X		
CODE OF PROTECTION	Ⓔx II 2G 1D Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx IM2 Ex db I Mb Ex eb I Mb	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da IP6X, Ex db I Mb, Ex eb I Mb
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE (20S16 - 100)	1055233		
CODE OF PROTECTION	Class I, Div 1 and 2, Groups A,B,C, and D; Enclosure type 4X : Class I, Zone 1, AEx de II ; Ex de II		
COMPLIANCE STANDARDS	C22.2 No.0,0.5,30,94, CAN/CSA 60079-0,1,7, CAN/CSA E61241-1-1, UL Std 50, 1203, UL 60079-0,1,7		
EAC CERTIFICATE	Check website for latest certificate number	INMETRO APPROVAL	TÜV 12.1334U
CCC CERTIFICATE	2020322313003177	MARINE APPROVALS	LRS: 01/00173
UkrSEPRO CERTIFICATE	СЦ 19.0372X	ECAS CERTIFICATE	20-02-05272
SANS	IA MS-XPL21962 21.0303X		

Male-to-Male thread option available.

Available with an equipment interface o-ring seal. For such options please add the suffix letter "R" after the type number in the ordering reference above, e.g. PX780REXRDM2M2.

For epoxy compound version please remove "REX" from ordering reference.

If 2 separate enclosures are required to be connected together please contact CMP Products.

PATENT GRANTED: ES2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153843, US 10193321, US 1034078

PRODUCT SELECTION TABLE

METRIC				NPT								
ORDERING REFERENCE (BRASS, METRIC)	MALE FORWARD THREAD SIZE 'A'	MINIMUM THREAD LENGTH 'E'	FEMALE REAR THREAD SIZE 'B'	ORDERING REFERENCE (BRASS, NPT)	MALE FORWARD NPT THREAD SIZE 'A'	MINIMUM NPT THREAD LENGTH 'E' (IN)	FEMALE REAR THREAD SIZE 'B'	DIAMETER OVER CORES 'C'	NUMBER OF CORES	PROTRUSION LENGTH 'F'	ACROSS FLATS HEX 'D'	ACROSS CORNERS Ø 'D'
PX780REXDM2M2	M20 X 1.5	15.0	M20 X 1.5	PX780REXDT1T1	½"	0.79	½"	12.6	21	36.0	46.0	50.6
PX780REXDM3M3	M25 X 1.5	15.0	M25 X 1.5	PX780REXDT2T2	¾"	0.80	¾"	17.5	30	36.0	50.0	55.0
PX780REXDM4M4	M32 X 1.5	15.0	M32 X 1.5	PX780REXDT3T3	1"	0.98	1"	23.6	50	36.0	60.0	66.0
PX780REXDM5M5	M40 X 1.5	15.0	M40 X 1.5	PX780REXDT4T4	1 ¼"	1.01	1 ¼"	30.0	59	36.0	65.0	71.5
PX780REXDM6M6	M50 X 1.5	15.0	M50 X 1.5	PX780REXDT5T5	1 ½"	1.03	1 ½"	41.0	115	36.0	75.0	82.5
PX780REXDM7M7	M63 X 1.5	15.0	M63 X 1.5	PX780REXDT6T6	2"	1.06	2"	53.7	115	36.0	90.2	99.2
PX780REXDM8M8	M75 X 1.5	15.0	M75 X 1.5	PX780REXDT7T7	2 ½"	1.57	2 ½"	64.3	140	39.0	99.3	109.2
PX780REXDM9M9	M90 X 2.0	24.0	M90 X 2.0	PX780REXDT8T8	3"	1.63	3"	75.3	140	42.0	120.0	132.0
PX780REXDM10M10	M100 X 2.0	24.0	M100 X 2.0	-	-	-	-	84.0	200	94.0	145.0	159.5

All dimensions shown are in millimetres unless otherwise stated

For material options please add the following suffix to the ordering reference; Brass (no suffix required), Nickel Plated Brass "5", 316 Grade Stainless Steel "4", Copper Free Aluminium "1"

784

784 45° UNION, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General purpose / industrial version available
- Equipment interface o-ring seal available
- -60˚C to +200˚C
- Globally marked, UKEX, IECEx, ATEX and cCSAus

IP66

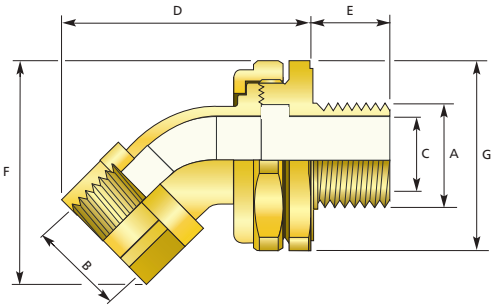
+200˚C
-60˚C

Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
AVAILABLE MATERIALS	Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1329U	IECEx CERTIFICATE	IECEx CML 18.0186U
UKEX CERTIFICATE	CML 21UKEX1242U		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx I M2, Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE	1055233		
CODE OF PROTECTION	Class I, Div 1 and 2, Groups A,B,C,D; IP66, 67, 68, Enclosure type 4X : Class I, Zone 1, AEx de II ; Ex de II		
COMPLIANCE STANDARDS	C22.2 No.0,0.5,30,94; CAN/CSA 60079-0,1,7; CAN/CSA E61241-1-1; UL 50, 1203; UL 60079-0,1,7		
EAC CERTIFICATE	Check website for latest certificate number	RETIE APPROVAL	03866
CCC CERTIFICATE	2020322313003177	INMETRO APPROVAL	TÜV 12.1334U
MARINE APPROVALS	LRS: 01/00173	CCOE / PESO (INDIA) CERTIFICATE	P444949
UkrSEPRO CERTIFICATE	СЦ 19.0370U	ECAS CERTIFICATE	20-02-05274
SANS	IA MS-XPL21804 21.0013U		

*Aluminium alloys are not permitted in Group I mining applications.

Male-to-Male thread option available.

Available with an equipment interface o-ring seal. For such options please add the suffix letter "R" after the type number in the ordering reference above, e.g. 784RDM2M2.

If 2 separate enclosures are required to be connected together please contact CMP Products.

PRODUCT SELECTION TABLE

METRIC				NPT				BORE DIAMETER 'C'	MAX PROTRUSION LENGTH 'D'	MAX OVERHANG LENGTH 'F'	ACROSS FLATS HEX 'G'	ACROSS CORNERS Ø 'G'
ORDERING REFERENCE (BRASS, METRIC)	MALE FORWARD THREAD SIZE 'A'	MINIMUM THREAD LENGTH 'E'	FEMALE REAR THREAD SIZE 'B'	ORDERING REFERENCE (BRASS, NPT)	MALE FORWARD NPT THREAD SIZE 'A'	MINIMUM NPT THREAD LENGTH 'E' (IN)	FEMALE REAR THREAD SIZE 'B'					
784DM2M2	M20 X 1.5	15.0	M20 X 1.5	784DT1T1	½"	0.79	½"	14.3	60.6	55.8	46.0	50.6
784DM3M3	M25 X 1.5	15.0	M25 X 1.5	784DT2T2	¾"	0.80	¾"	20.1	65.9	61.2	50.0	55.0
784DM4M4	M32 X 1.5	15.0	M32 X 1.5	784DT3T3	1"	0.98	1"	26.4	69.3	69.7	60.0	66.0
784DM5M5	M40 X 1.5	15.0	M40 X 1.5	784DT4T4	1¼"	1.01	1¼"	32.6	74.9	76.4	65.0	71.5
784DM6M6	M50 X 1.5	15.0	M50 X 1.5	784DT5T5	1½"	1.03	1½"	43.0	93.5	87.9	75.0	82.5
784DM7M7	M63 X 1.5	15.0	M63 X 1.5	784DT6T6	2"	1.06	2"	53.0	102.7	102.8	90.0	99.0

All dimensions shown are in millimetres unless otherwise stated

For material options please add the following suffix to the ordering reference; Brass (no suffix required), Nickel Plated Brass "5", 316 Grade Stainless Steel "4", Copper Free Aluminium "1"

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

PX784REX

RAPID Ex

PX784REX 45° UNION, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE / CONDUIT ACCESSORY

- RapidEx liquid pour sealing system reduces installation time
- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General purpose / industrial version available
- Equipment interface o-ring seal available
- -60˚C to +85˚C
- Globally marked, UKEX, IECEx, ATEX and cCSAus

IP66

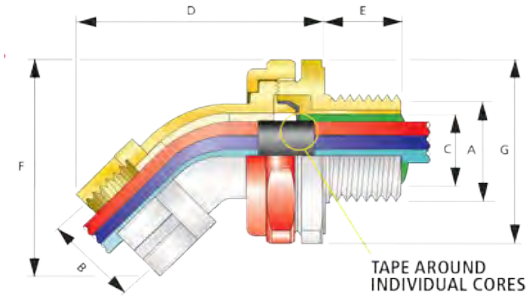
+85˚C
-60˚C

Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
AVAILABLE MATERIALS	Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1329U	IECEx CERTIFICATE	IECEx CML 18.0186U
UKEX CERTIFICATE	CML 21UKEX1242U		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx I M2, Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE	1055233		
CODE OF PROTECTION	Class I, Div 1 and 2, Groups A,B,C,D; IP66, 67, 68, Enclosure type 4X : Class I, Zone 1, AEx de II ; Ex de II		
COMPLIANCE STANDARDS	C22.2 No.0,0.5,30,94; CAN/CSA 60079-0,1,7; CAN/CSA E61241-1-1; UL 50, 1203; UL 60079-0,1,7		
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	INMETRO APPROVAL	TÜV 12.1334U
CCC CERTIFICATE	2020322313003177	RETIE APPROVAL	03866
UkrSEPRO CERTIFICATE	СЦ 19.0370U	CCOE / PESO (INDIA) CERTIFICATE	P444949
MARINE APPROVALS	LRS: 01/00173	ECAS CERTIFICATE	20-02-05274
SANS	IA MS-XPL21804 21.0013U		

*Aluminium alloys are not permitted in Group I mining applications.

Male-to-Male thread option available.
Available with an equipment interface 'O' ring seal. For such options please add the suffix letter "R" after the type number in the ordering reference above, e.g. PX784REXRDM2M2.
For epoxy compound version please remove "REX" from ordering reference.
If 2 separate enclosures are required to be connected together please contact CMP Products.

PATENT GRANTED: ES2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153843, US 10193321, US 1034078

PRODUCT SELECTION TABLE

METRIC				NPT									
ORDERING REFERENCE (BRASS, METRIC)	MALE FORWARD THREAD SIZE 'A'	MINIMUM THREAD LENGTH 'E'	FEMALE REAR THREAD SIZE 'B'	ORDERING REFERENCE (BRASS, NPT)	MALE FORWARD NPT THREAD SIZE 'A'	MINIMUM NPT THREAD LENGTH 'E' (IN)	FEMALE REAR THREAD SIZE 'B'	DIAMETER OVER CORES 'C'	NUMBER OF CORES	MAX PROTRUSION LENGTH 'D'	MAX OVERHANG LENGTH 'F'	ACROSS FLATS HEX 'G'	ACROSS CORNERS Ø 'G'
PX784REXDM2M2	M20 X 1.5	15.0	M20 X 1.5	PX784REXDT1T1	½"	0.79	½"	12.6	21	60.6	55.8	46.0	50.6
PX784REXDM3M3	M25 X 1.5	15.0	M25 X 1.5	PX784REXDT2T2	¾"	0.80	¾"	17.5	30	65.9	61.2	50.0	55.0
PX784REXDM4M4	M32 X 1.5	15.0	M32 X 1.5	PX784REXDT3T3	1"	0.98	1"	23.6	50	69.5	70.2	60.0	66.0
PX784REXDM5M5	M40 X 1.5	15.0	M40 X 1.5	PX784REXDT4T4	1¼"	1.01	1¼"	30.0	59	74.9	76.4	65.0	71.5
PX784REXDM6M6	M50 X 1.5	15.0	M50 X 1.5	PX784REXDT5T5	1½"	1.03	1½"	41.0	115	93.5	88.0	75.0	82.5
PX784REXDM7M7	M63 X 1.5	15.0	M63 X 1.5	PX784REXDT6T6	2"	1.06	2"	53.7	115	102.7	103.4	90.2	99.2

All dimensions shown are in millimetres unless otherwise stated

For material options please add the following suffix to the ordering reference; Brass (no suffix required), Nickel Plated Brass "5", 316 Grade Stainless Steel "4", Copper Free Aluminium "1"

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

789

789 90° UNION, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE / CONDUIT ACCESSORY

- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General purpose / industrial version available
- Equipment interface o-ring seal available
- -60˚C to +200˚C
- Globally marked, UKEX, IECEx, ATEX and cCSAus

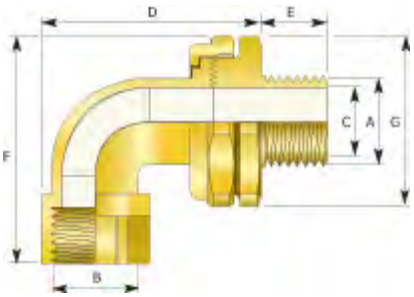
IP66

+200˚C
-60˚C

Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
AVAILABLE MATERIALS	Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.



GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML18ATEX1329U	IECEx CERTIFICATE	IECEx CML 18.0186U
UKEX CERTIFICATE	CML 21UKEX1242U		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx I M2, Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE	1055233		
CODE OF PROTECTION	Class I, Div 1 and 2, Groups A,B,C,D; IP66, 67, 68 Enclosure type 4X: Class I, Zone 1, AEx de II ; Ex de II		
COMPLIANCE STANDARDS	C22.2 No.0,0.5,30,94; CAN/CSA 60079-0,1,7; CAN/CSA E61241-1-1; UL 50, 1203; UL 60079-0,1,7		
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	RETIE APPROVAL	03866
CCC CERTIFICATE	2020322313003177	INMETRO APPROVAL	TÜV 12.1334U
UkrSEPRO CERTIFICATE	CЦ 19.0370U	CCOE / PESO (INDIA) CERTIFICATE	P444949
MARINE APPROVALS	LRS: 01/00173	ECAS CERTIFICATE	20-02-05274
SANS	IA MS-XPL21804 21.0013U		

*Aluminium alloys are not permitted in Group I mining applications.

Male-to-Male thread option available.
Available with an equipment interface o-ring seal. For such options please add the suffix letter "R" after the type number in the ordering reference above, e.g. 789RDM2M2.
If 2 separate enclosures are required to be connected together please contact CMP Products.

PRODUCT SELECTION TABLE

METRIC				NPT				MIN BORE DIAMETER 'C'	MAX PROTRUSION LENGTH 'D'	MAX OVERHANG LENGTH 'F'	ACROSS FLATS HEX 'G'	ACROSS CORNERS Ø 'G'	INSTALLATION TORQUE (NM)	WEIGHT (kg)
ORDERING REFERENCE (BRASS, METRIC)	MALE FORWARD THREAD SIZE 'A'	MINIMUM THREAD LENGTH 'E'	FEMALE REAR THREAD SIZE 'B'	ORDERING REFERENCE (BRASS, NPT)	MALE FORWARD NPT THREAD SIZE 'A'	MINIMUM NPT THREAD LENGTH 'E' (IN)	FEMALE REAR THREAD SIZE 'B'							
789DM2M2	M20 X 1.5	15.0	M20 X 1.5	789DT1T1	½"	0.78	½"	14.0	62.9	63.8	46.0	50.6	7	0.35
789DM3M3	M25 X 1.5	15.0	M25 X 1.5	789DT2T2	¾"	0.80	¾"	20.1	70.6	69.5	50.0	55.0	10	0.45
789DM4M4	M32 X 1.5	15.0	M32 X 1.5	789DT3T3	1"	0.98	1"	26.0	75.7	78.0	60.0	66.0	15	0.59
789DM5M5	M40 X 1.5	15.0	M40 X 1.5	789DT4T4	1¼"	1.01	1¼"	32.3	83.7	84.8	65.0	71.5	25	0.74
789DM6M6	M50 X 1.5	15.0	M50 X 1.5	789DT5T5	1½"	1.03	1½"	42.7	95.9	96.3	75.0	82.5	30	1.05
789DM7M7	M63 X 1.5	15.0	M63 X 1.5	789DT6T6	2"	1.06	2"	54.7	108.8	115.1	90.0	99.0	45	1.52

All dimensions shown are in millimetres unless otherwise stated

For material options please add the following suffix to the ordering reference; Brass (no suffix required), Nickel Plated Brass "5", 316 Grade Stainless Steel "4", Copper Free Aluminium "1"

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

PX789REX

RAPID Ex

PX789REX 90° UNION, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE BARRIER CABLE / CONDUIT ACCESSORY

- RapidEx liquid pour sealing system reduces installation time
- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Integral coupling eliminates the need to rotate the conduit
- General purpose / industrial version available
- Equipment interface o-ring seal available
- -60˚C to +85˚C
- Globally marked, UKEX, IECEx, ATEX and cCSAus

IP66

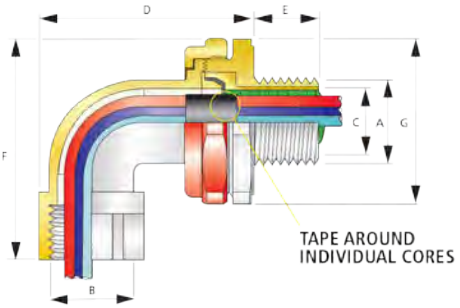
+85˚C
-60˚C

Ex db Ex eb Ex ta

TECHNICAL CLASSIFICATION

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass and Stainless Steel only
INGRESS PROTECTION RATING**	IP66
AVAILABLE MATERIALS	Brass (standard), Electroless Nickel Plated Brass, Aluminium, Stainless Steel

** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.



GLOBAL PRODUCT CERTIFICATION

ATEX CERTIFICATE	CML18ATEX1329U	IECEx CERTIFICATE	IECEx CML 18.0186U
UKEX CERTIFICATE	CML 21UKEX1242U		
CODE OF PROTECTION	Ⓔx II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔx I M2, Ex db I Mb*, Ex eb I Mb*	CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex db I Mb*, Ex eb I Mb*
COMPLIANCE STANDARDS	EN 60079-0,1,7,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,31
cCSAus CERTIFICATE	1055233		
CODE OF PROTECTION	Class I, Div 1 and 2, Groups A,B,C,D; IP66, 67, 68, Enclosure type 4X : Class I, Zone 1, AEx de II ; Ex de II		
COMPLIANCE STANDARDS	C22.2 No.0,0.5,30,94; CAN/CSA 60079-0,1,7; CAN/CSA E61241-1-1; UL 50, 1203; UL 60079-0,1,7		
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	INMETRO APPROVAL	TÜV 12.1334U
CCC CERTIFICATE	2020322313003177	RETIE APPROVAL	03866
UkrSEPRO CERTIFICATE	СЦ 19.0370U	CCOE / PESO (INDIA) CERTIFICATE	P444949
MARINE APPROVALS	LRS: 01/00173	ECAS CERTIFICATE	20-02-05274
SANS	IA MS-XPL21804 21.0013U		

*Aluminium alloys are not permitted in Group I mining applications.

Male-to-Male thread option available.

Available with an equipment interface 'O' ring seal. For such options please add the suffix letter "R" after the type number in the ordering reference above, e.g. PX789REXRDM2M2.

For epoxy compound version please remove "REX" from ordering reference.

If 2 separate enclosures are required to be connected together please contact CMP Products.

PATENT GRANTED: ES2287986, NO 2287986, TR 2287986, AU 2010284848, AU 2014274614, GB 2485114, SG 178839, US 8872027, US 9484133, US 9774178, MY 153843, US 10193321, US 1034078

PRODUCT SELECTION TABLE

METRIC				NPT									
ORDERING REFERENCE (BRASS, METRIC)	MALE FORWARD THREAD SIZE 'A'	MINIMUM THREAD LENGTH 'E'	FEMALE REAR THREAD SIZE 'B'	ORDERING REFERENCE (BRASS, NPT)	MALE FORWARD NPT THREAD SIZE 'A'	MINIMUM NPT THREAD LENGTH 'E' (IN)	FEMALE REAR THREAD SIZE 'B'	DIAMETER OVER CORES 'C'	NUMBER OF CORES	MAX PROTRUSION LENGTH 'D'	MAX OVERHANG LENGTH 'F'	ACROSS FLATS HEX 'G'	ACROSS CORNERS Ø 'G'
PX789REXDM2M2	M20 X 1.5	15.0	M20 X 1.5	PX789REXDT1T1	½"	0.78	½"	12.6	21	62.9	63.8	46.0	50.6
PX789REXDM3M3	M25 X 1.5	15.0	M25 X 1.5	PX789REXDT2T2	¾"	0.80	¾"	17.5	30	70.6	69.5	50.0	55.0
PX789REXDM4M4	M32 X 1.5	15.0	M32 X 1.5	PX789REXDT3T3	1"	0.98	1"	23.6	50	75.7	78.0	60.0	66.0
PX789REXDM5M5	M40 X 1.5	15.0	M40 X 1.5	PX789REXDT4T4	1¼"	1.01	1¼"	30.0	59	83.7	84.8	65.0	71.5
PX789REXDM6M6	M50 X 1.5	15.0	M50 X 1.5	PX789REXDT5T5	1½"	1.03	1½"	41.0	115	95.9	96.3	75.0	82.5
PX789REXDM7M7	M63 X 1.5	15.0	M63 X 1.5	PX789REXDT6T6	2"	1.06	2"	53.7	115	108.8	115.1	90.0	99.0

All dimensions shown are in millimetres unless otherwise stated

For material options please add the following suffix to the ordering reference; Brass (no suffix required), Nickel Plated Brass "5", 316 Grade Stainless Steel "4", Copper Free Aluminium "1"

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

LOCKNUTS

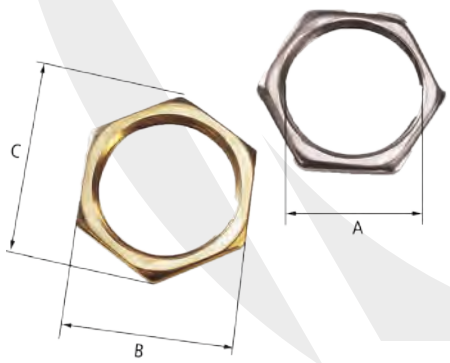
Brass - Recommended in securing brass cable glands and accessories to a gland plate or into equipment. In metric thread form CMP offers brass locknuts in a choice of standard duty and heavy duty options for sizes up to and including M32. The part numbers are distinguished by an additional letter H, e.g. 20LN = standard duty, and 20HLN = heavy duty. From size M40 all brass metric locknuts are considered to be heavy duty.

Zinc plated mild steel - A cost effective alternative to brass locknuts and should be used only in dry, low humidity conditions.

Aluminium - Recommended when installing aluminium cable glands to prevent the galvanic corrosion which can occur when dissimilar metals are coupled together.

Stainless steel - Corrosion resistant with increased strength at high temperatures.

Please refer to ordering reference numbers (page 163), e.g. 20LN4 for M20 Stainless steel locknut, 050NPTLN4 for ½" NPT Stainless steel locknut.



NPT - LOCKNUTS

ORDERING REFERENCE (BRASS)	THREAD DIAMETER 'A'	MINIMUM THICKNESS	ACROSS FLATS DIMENSION 'B'	ACROSS CORNERS DIAMETER 'C'
050NPTLN	½" NPT	4.8	27.0	31.2
075NPTLN	¾" NPT	4.8	33.0	38.1
100NPTLN	1" NPT	4.8	41.0	47.3
125NPTLN	1 ¼" NPT	4.8	50.0	57.7
150NPTLN	1 ½" NPT	5.0	60.0	69.3
200NPTLN	2" NPT	5.0	75.0	88.6
250NPTLN	2 ½" NPT	10.0	84.0	97.0
300NPTLN	3" NPT	10.0	100.0	115.5
350NPTLN	3 ½" NPT	11.2	114.3	132.0
400NPTLN	4" NPT	12.0	130.0	150.1

All dimension shown are in millimetres unless otherwise stated

METRIC - LOCKNUTS

ORDERING REFERENCE (BRASS)	THREAD DIAMETER 'A'	MINIMUM THICKNESS	ACROSS FLATS DIMENSION 'B'	ACROSS CORNERS DIAMETER 'C'
16LN	M16 X 1.5	3.2	22.0	25.4
16HLN	M16 X 1.5	5.0	22.0	25.4
20LN	M20 X 1.5	3.2	24.0	27.7
20HLN	M20 X 1.5	5.0	24.0	27.7
25LN	M25 X 1.5	3.2	30.0	34.6
25HLN	M25 X 1.5	5.0	30.0	34.6
32LN	M32 X 1.5	3.2	36.0	41.6
32HLN	M32 X 1.5	5.0	36.0	41.6
40LN	M40 X 1.5	4.8	46.0	53.1
50LN	M50 X 1.5	6.3	55.0	63.5
63LN	M63 X 1.5	6.3	70.0	80.8
75LN	M75 X 1.5	6.3	84.0	97.0
90LN	M90 X 2.0	9.5	106.0	122.4
100LN	M100 X 2.0	9.5	123.0	142.0

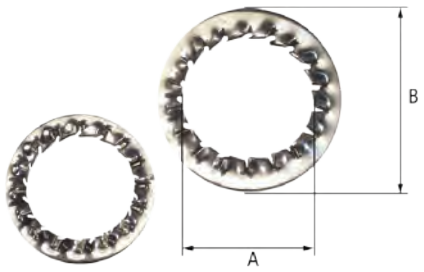
All dimension shown are in millimetres unless otherwise stated

SERRATED WASHERS

Available in stainless steel, these 'shake-proof' serrated washers are fitted internally to the equipment before a locknut and act as an anti-vibration device to prevent the cable gland or accessory from inadvertently loosening in service.

In typical installations that are not subject to vibration, a serrated washer may not be required but consideration should be given to the following statement:

Self-loosening should be avoided according to clause 6.4.1 of IEC 60079-14, this can occur through relative motion over time even without vibration, due to differential thermal effects caused as a result of either differences in temperature or differences in clamped materials.



NPT - SERRATED WASHERS

ORDERING REFERENCE (STAINLESS STEEL)	REFERENCE DIAMETER 'A'	MINIMUM THICKNESS	EXTERNAL DIAMETER 'B'
050NPTSW4	½" NPT	3.9	32.5
075NPTSW4	¾" NPT	3.9	40.0
100NPTSW4	1" NPT	3.9	43.5
125NPTSW4	1 ¼" NPT	3.9	64.5
150NPTSW4	1 ½" NPT	3.9	80.0
200NPTSW4	2" NPT	3.9	100.0
250NPTSW4	2 ½" NPT	3.9	112.0
300NPTSW4	3" NPT	4.1	135.0
350NPTSW4	3 ½" NPT	4.1	145.0
400NPTSW4	4" NPT	4.1	185.0

All dimension shown are in millimetres unless otherwise stated

METRIC - SERRATED WASHERS

ORDERING REFERENCE (STAINLESS STEEL)	REFERENCE DIAMETER 'A'	MINIMUM THICKNESS	EXTERNAL DIAMETER 'B'
16SW4	M16	3.9	25.5
20SW4	M20	3.9	32.5
25SW4	M25	3.9	40.0
32SW4	M32	3.9	43.5
40SW4	M40	3.9	64.5
50SW4	M50	3.9	80.0
63SW4	M63	3.9	100.0
75SW4	M75	4.1	112.0
90SW4	M90	4.1	135.0
100SW4	M100	4.1	145.0

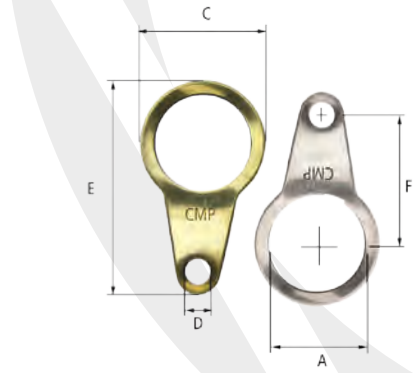
All dimension shown are in millimetres unless otherwise stated

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

EARTH TAGS

CMP slip on earth tags, installed between the cable gland and equipment, provide an earth bond connection as specified in BS6121:Part 5:1993 and comply with category B rating specified in IEC 62444. CMP earth tags have been independently short circuit tested to verify their suitability under specified service conditions. A copy of the test report is available upon request and is an important factor when selecting earth tags from any manufacturer, as without this the safety of installations may be compromised.

Stainless steel, aluminium and nickel plated brass earth tags are also available. Please refer to ordering reference numbers (page 163), e.g 20ET4 for M20 stainless steel earth tag, 050NPTET4 for ½" NPT stainless steel earth tag.



CMP EARTH TAG SIZE	SHORT CIRCUIT RATINGS SYMMETRICAL FAULT CURRENT (KA) FOR 1 SECOND
20	3.06
25	4.06
32	5.40
40	7.20
50	10.40
63	10.40
75	10.40

NPT - EARTH TAGS

ORDERING REFERENCE (BRASS)	REFERENCE DIAMETER 'A'	MINIMUM THICKNESS	NOMINAL DIAMETER 'C'	HOLE SIZE 'D'	NOMINAL LENGTH 'E'	NOMINAL CENTRES 'F'
050NPTET	½" NPT	1.3	27.1	M6	52.8	33.1
075NPTET	¾" NPT	1.5	35.1	M6	59.2	35.6
100NPTET	1" NPT	1.5	45.2	M12	77.0	43.1
125NPTET	1 ¼" NPT	1.5	53.7	M13	88.7	45.4
150NPTET	1 ½" NPT	1.5	65.2	M13	111.2	58.1
200NPTET	2" NPT	1.5	82.6	M13	128.7	66.8
250NPTET	2 ½" NPT	1.5	95.4	M13	141.5	73.0
300NPTET	3" NPT	2.0	114.0	M13	161.0	85.0
350NPTET	3 ½" NPT	2.0	125.0	M13	194.8	103.0
400NPTET	4" NPT	2.0	140.4	M13	207.0	117.8

All dimension shown are in millimetres unless otherwise stated

METRIC - EARTH TAGS

ORDERING REFERENCE (BRASS)	REFERENCE DIAMETER 'A'	MINIMUM THICKNESS	NOMINAL DIAMETER 'C'	HOLE SIZE 'D'	NOMINAL LENGTH 'E'	NOMINAL CENTRES 'F'
16ET	M16	1.3	25.4	M6	50.4	30.2
20ET	M20	1.3	27.1	M6	52.3	33.1
25ET	M25	1.5	35.1	M6	59.2	35.6
32ET	M32	1.5	45.2	M12	77.0	43.1
40ET	M40	1.5	53.7	M13	88.7	45.4
50ET	M50	1.5	65.2	M13	111.2	58.1
63ET	M63	1.5	82.6	M13	128.7	66.8
75ET	M75	1.5	95.4	M13	141.5	73.0
90ET	M90	2.0	114.2	M13	161.0	85.0
100ET	M100	2.0	125.0	M13	194.8	103.0

All dimension shown are in millimetres unless otherwise stated

TDS585 REV5 06/20

CABLE GLAND WARMER

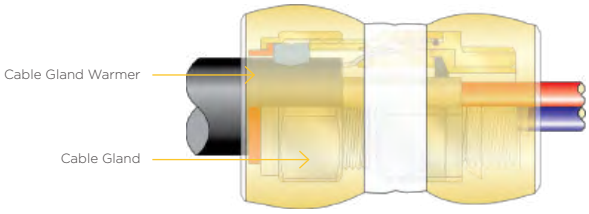
Where it is not possible to erect a shelter for the application of epoxy compound or RapidEx liquid resin it is recommended that a CMP cable gland warmer be used for localised heating of barrier type cable glands.

CMP cable gland warmers may be used when installers do not have access to hot air guns. Similarly when electrical power is not available on site enabling electric heating blankets to be used, or the site conditions do not permit their use.

CMP cable gland warmers comprise a self-contained heat pack which has been designed to completely enclose any of the CMP RapidEx barrier cable gland range. The cable gland warmer operates using crystallisation of supersaturated sodium acetate to raise the temperature of the cable gland up to 60°C (140°F) and is only suitable for use with RapidEx liquid resin.

As the cable gland warmer releases heat for a limited time, it is important that they are used in the most effective manner; this involves wrapping the cable gland warmer around the cable gland so that heat is transferred directly. This will ensure that the barrier tube, where the RapidEx liquid resin will be poured, is suitably prepared and ready for use.

For use in environments between -10°C (14°F) to +5°C (41°F)



PRODUCT CODE	CMP TMC2X CABLE GLAND SIZE	CMP PX CABLE GLAND SIZE	CONNECTION THREAD SIZE
IGWS	TMC2X-XXXX075	20S	M20 or ½" NPT
	TMC2X-XXXX099	20	M20 or ½" NPT
	TMC2X-XXXX118	25	M25 or ¾" NPT
IGWM	TMC2X-XXXX137	32	M32 or 1" NPT
	TMC2X-XXXX162	40	M40 or 1¼" NPT
	TMC2X-XXXX190	50S	M50 or 1½" NPT
	TMC2X-XXXX200	50	M50 or 2" NPT
IGWL	TMC2X-XXXX233	63S	M63 or 2" NPT
	-	63	M63 or 2½" NPT
	TMC2X-XXXX272	75S	M75 or 2½" NPT
	TMC2X-XXXX325	75	M75 or 3" NPT
	TMC2X-XXXX376	90	M90 or 3½" NPT
	TMC2X-XXXX425	100	M100 or 4" NPT

TDS754 REV2 07/19

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

GROUNDING LOCKNUTS METRIC

CMP Products' grounding locknuts for use with cable glands, conduit fittings, tubing (EMT) fittings and conduit as a means of reliably and safely bonding the locknut (and gland) to the enclosure or equipment.

Providing electrical continuity and tested to the requirements of CEC and NEC wiring codes CMP's grounding locknuts reduce the chance of equipment failure, downtime, power interruptions and eliminate potential safety issues.

Grounding locknuts are available with either a grounding terminal or lay-in lug and are available in stainless steel (GRLN4), aluminum (GRLN1) and nickel plated brass (GRLN5), e.g 20GRLN4 for M20 stainless steel grounding locknut.

Grounding locknuts are supplied as standard in aluminum or nickel plated brass. Hammer and screwdriver installation grooves only on aluminium design (as pictured).

Standard - Small lay-in lug - 14-4 AWG
Optional - Medium lay-in lug - 14-2/0 AWG
Optional - Large lay-in lug - 6-250 AWG

AWG - American wire gauge

Grounding Terminal | Straight Lay-in-Lug (Optional*) | Angled Lay-in-Lug (Standard*)

cCSAus CERTIFICATE	2450309
CODE OF PROTECTION	Class I Zone 1 AExe II, Exe II

CLASS CATEGORIES	
C441404	Grounding and Bonding Devices
C441484	Grounding and Bonding Devices - Certified to US Standards
C909801	Miscellaneous - For Hazardous Locations
C909881	Miscellaneous - For Hazardous Locations - Certified to US Standards

GROUNDING LOCKNUTS WITH LAY-IN LUG

ORDERING REFERENCE WITH ANGLED LAY-IN LUG				ORDERING REFERENCE WITH STRAIGHT LAY-IN LUG		THREAD DIAMETER METRIC	MINIMUM LOCKNUT THICKNESS 14-4 & 14-2/0 LUG	MINIMUM LOCKNUT THICKNESS 6-250 LUG	ACROSS FLATS DIMENSION	ACROSS CORNERS DIAMETER
STANDARD 14-4 AWG		OPTIONAL 14-2/0 AWG		OPTIONAL 6-250 AWG*						
ALUMINUM	NICKEL PLATED BRASS	ALUMINUM	NICKEL PLATED BRASS	ALUMINUM	NICKEL PLATED BRASS					
20GRLN1-4A	20GRLN5-4A	-	-	-	-	M20	0.48	-	1.20	1.32
25GRLN1-4A	25GRLN5-4A	-	-	-	-	M25	0.48	-	1.48	1.63
32GRLN1-4A	32GRLN5-4A	32GRLN1-10A	32GRLN5-10A	-	-	M32	0.48	-	1.81	1.99
40GRLN1-4A	40GRLN5-4A	40GRLN1-10A	40GRLN5-10A	-	-	M40	0.48	-	2.05	2.25
50GRLN1-4A	50GRLN5-4A	50GRLN1-10A	50GRLN5-10A	-	-	M50	0.48	-	2.36	2.60
63GRLN1-4A	63GRLN5-4A	63GRLN1-10A	63GRLN5-10A	-	-	M63	0.48	-	2.76	3.03
75GRLN1-4A	75GRLN5-4A	75GRLN1-10A	75GRLN5-10A	75GRLN1-25	75GRLN5-25	M75	0.48	0.68	3.54	3.90
90GRLN1-4A	90GRLN5-4A	90GRLN1-10A	90GRLN5-10A	90GRLN1-25	90GRLN5-25	M90	0.48	0.68	4.33	4.76
100GRLN1-4A	100GRLN5-4A	100GRLN1-10A	100GRLN5-10A	100GRLN1-25	100GRLN5-25	M100	0.48	0.68	4.84	5.33
115GRLN1-4A	115GRLN5-4A	115GRLN1-10A	115GRLN5-10A	115GRLN1-25	115GRLN5-25	M115	0.48	0.68	5.24	5.76
Dimensions shown are in inches unless otherwise stated										

Grounding Locknuts with Lay-in-Lug are available in aluminum, nickel plated brass & stainless steel (not shown). Lay-in-Lug will always be aluminum regardless of locknut material. Lay-in-Lug may be angled or straight design, remove 'A' suffix from order reference for straight design. *Only the straight lay-in-lug design is available for 6-250 AWG.

GROUNDING LOCKNUTS WITH GROUNDING TERMINAL

ORDERING REFERENCE WITH GROUNDING TERMINAL			THREAD DIAMETER METRIC	MINIMUM THICKNESS	ACROSS FLATS DIMENSION	ACROSS CORNERS DIAMETER
STANDARD NICKEL PLATED BRASS	OPTIONAL STAINLESS STEEL	OPTIONAL ALUMINUM				
20GRLN5	20GRLN4	20GRLN1	M20	0.48	1.20	1.32
25GRLN5	25GRLN4	25GRLN1	M25	0.48	1.48	1.63
32GRLN5	32GRLN4	32GRLN1	M32	0.48	1.81	1.99
40GRLN5	40GRLN4	40GRLN1	M40	0.48	2.05	2.25
50GRLN5	50GRLN4	50GRLN1	M50	0.48	2.36	2.60
63GRLN5	63GRLN4	63GRLN1	M63	0.48	2.76	3.03
75GRLN5	75GRLN4	75GRLN1	M75	0.48	3.54	3.90
90GRLN5	90GRLN4	90GRLN1	M90	0.48	4.33	4.76
100GRLN5	100GRLN4	100GRLN1	M100	0.48	4.84	5.33
115GRLN5	115GRLN4	115GRLN1	M115	0.48	5.24	5.76
Dimensions shown are in inches unless otherwise stated						

Grounding Terminal will always be Stainless Steel regardless of locknut material. Grounding Terminal is suitable for wire sizes 0.5mm² to 2.5mm².

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

GROUNDING LOCKNUTS NPT

CMP Products' grounding locknuts for use with cable glands, conduit fittings, tubing (EMT) fittings and conduit as a means of reliably and safely bonding the locknut (and gland) to the enclosure or equipment.

Providing electrical continuity and tested to the requirements of CEC and NEC wiring codes CMP's grounding locknuts reduce the chance of equipment failure, downtime, power interruptions and eliminate potential safety issues.

Grounding locknuts are available with either a grounding terminal or lay-in lug and are available in stainless steel (GRLN4), aluminum (GRLN1) and nickel plated brass (GRLN5), e.g 050NPTGRNL4 for ½" stainless steel grounding locknut.

Grounding locknuts are supplied as standard in aluminum or nickel plated brass. Hammer and screwdriver installation grooves only on aluminum design (as pictured).

Standard - Small lay-in lug - 14-4 AWG
Optional - Medium lay-in lug - 14-2/0 AWG
Optional - Large lay-in lug - 6-250 AWG

AWG - American wire gauge

Grounding Terminal | Straight Lay-in-Lug (Optional*) | Angled Lay-in-Lug (Standard*)

cCSAus CERTIFICATE	2450309
CODE OF PROTECTION	Class I Zone 1 AExe II, Exe II

CLASS CATEGORIES	
C441404	Grounding and Bonding Devices
C441484	Grounding and Bonding Devices - Certified to US Standards
C909801	Miscellaneous - For Hazardous Locations
C909881	Miscellaneous - For Hazardous Locations - Certified to US Standards

NPT GROUNDING LOCKNUTS WITH LAY-IN LUG

ORDERING REFERENCE WITH ANGLED LAY-IN LUG				ORDERING REFERENCE WITH ANGLED LAY-IN LUG		THREAD DIAMETER NPT	MINIMUM LOCKNUT THICKNESS 14-4 & 14-2/0 LUG	MINIMUM LOCKNUT THICKNESS 6-250 LUG	ACROSS FLATS DIMENSION	ACROSS CORNERS DIAMETER
STANDARD 14-4 AWG		OPTIONAL 14-2/0 AWG		OPTIONAL 6-250 AWG*						
ALUMINUM	NICKEL PLATED BRASS	ALUMINUM	NICKEL PLATED BRASS	ALUMINUM	NICKEL PLATED BRASS					
050NPTGRLN1-4A	050NPTGRLN5-4A	-	-	-	-	½"	0.48	-	1.20	1.32
075NPTGRLN1-4A	075NPTGRLN5-4A	-	-	-	-	¾"	0.48	-	1.48	1.63
100NPTGRLN1-4A	100NPTGRLN5-4A	100NPTGRLN1-10A	100NPTGRLN5-10A	-	-	1"	0.48	-	1.81	1.99
125NPTGRLN1-4A	125NPTGRLN5-4A	125NPTGRLN1-10A	125NPTGRLN5-10A	-	-	1 ¼"	0.48	-	2.05	2.25
150NPTGRLN1-4A	150NPTGRLN5-4A	150NPTGRLN1-10A	150NPTGRLN5-10A	-	-	1 ½"	0.48	-	2.36	2.60
200NPTGRLN1-4A	200NPTGRLN5-4A	200NPTGRLN1-10A	200NPTGRLN5-10A	-	-	2"	0.48	-	2.76	3.03
250NPTGRLN1-4A	250NPTGRLN5-4A	250NPTGRLN1-10A	250NPTGRLN5-10A	250NPTGRLN1-25	250NPTGRLN5-25	2 ½"	0.48	0.68	3.54	3.90
300NPTGRLN1-4A	300NPTGRLN5-4A	300NPTGRLN1-10A	300NPTGRLN5-10A	300NPTGRLN1-25	300NPTGRLN5-25	3"	0.48	0.68	4.33	4.76
350NPTGRLN1-4A	350NPTGRLN5-4A	350NPTGRLN1-10A	350NPTGRLN5-10A	350NPTGRLN1-25	350NPTGRLN5-25	3 ½	0.48	0.68	4.84	5.33
400NPTGRLN1-4A	400NPTGRLN5-4A	400NPTGRLN1-10A	400NPTGRLN5-10A	400NPTGRLN1-25	400NPTGRLN5-25	4"	0.48	0.68	5.24	5.76

Dimensions shown are in inches unless otherwise stated

Grounding Locknuts with Lay-in-Lug are available in aluminum, nickel plated brass & stainless steel (not shown). Lay-in-Lug will always be aluminum regardless of locknut material. Lay-in-Lug may be angled or straight design, remove 'A' suffix from order reference for straight design. *Only the straight lay-in-lug design is available for 6-250 AWG.

NPT GROUNDING LOCKNUTS WITH GROUNDING TERMINAL

ORDERING REFERENCE WITH GROUNDING TERMINAL			THREAD DIAMETER NPT	MINIMUM THICKNESS	ACROSS FLATS DIMENSION	ACROSS CORNERS DIAMETER
STANDARD NICKEL PLATED BRASS	OPTIONAL STAINLESS STEEL	OPTIONAL ALUMINUM				
050NPTGRLN5	050NPTGRLN4	050NPTGRLN1	½"	0.48	1.20	1.32
075NPT5GRLN5	075NPT5GRLN4	075NPT5GRLN1	¾"	0.48	1.48	1.63
100NPTGRLN5	100NPTGRLN4	100NPTGRLN1	1"	0.48	1.81	1.99
125NPTGRLN5	125NPTGRLN4	125NPTGRLN1	1 ¼"	0.48	2.05	2.25
150NPTGRLN5	150NPTGRLN4	150NPTGRLN1	1 ½"	0.48	2.36	2.60
200NPTGRLN5	200NPTGRLN4	200NPTGRLN1	2"	0.48	2.76	3.03
250NPTGRLN5	250NPTGRLN4	250NPTGRLN1	2 ½"	0.48	3.54	3.90
300NPTGRLN5	300NPTGRLN4	300NPTGRLN1	3"	0.48	4.33	4.76
350NPT0GRLN5	350NPTGRLN4	350NPTGRLN1	3 ½"	0.48	4.84	5.33
400NPTGRLN5	400NPTGRLN4	400NPTGRLN1	4"	0.48	5.24	5.76

Dimensions shown are in inches unless otherwise stated

Grounding Terminal will always be Stainless Steel regardless of locknut material. Grounding Terminal is suitable for wire sizes 0.5mm² to 2.5mm².

ENTRY THREAD SEALING WASHERS

To maintain the ingress protection rating between the equipment and the cable gland, it may be necessary to fit an entry thread sealing washer at the equipment-to-gland entry interface. For installations it is equally essential to maintain the ingress protection integrity to which the equipment has been rated.

The need for a sealing washer will depend on the ingress protection rating, code of protection of the equipment and the type of entry holes available within that equipment. For more information refer to: www.cmp-products.com/ingress-protection.

The CMP metric entry thread sealing washers are produced in 2mm thick white nylon* as standard which are recommended and meet the specified requirements of Shell's offshore operations (Deluge DTS01 : 91). To verify the effectiveness of the CMP nylon entry sealing washers, independent third-party tests to IEC 60529 have been successfully conducted on cable glands at IP66, IP67 and IP68 levels of protection. Documentary evidence of such tests to the highest standards can be provided.

CMP NPT entry thread sealing washers are produced in 2mm thick nylon and are colour coded green for identification purposes.

All CMP nylon entry thread sealing washers have an operating temperature range of -60°C to +130°C; for the purpose of installation, this may be restricted by, or exceeded by the operating temperature of the cable gland or cable accessory used, and care should be taken to observe the constraining temperature(s).

Should the operating temperature of the CMP nylon entry thread sealing washer not be suitable for any particular installation, please contact CMP for an alternative solution.

Red fibre washers can also be supplied to order but careful consideration should be given to their use in sub-zero climates where absorption, freezing and cracking may occur. These red fibre washers can be ordered by substituting 'ETS' with 'FW' in the below tables.

CMP also offers cable glands and accessories with an equipment interface 'O' ring seal as an alternative.

*Please note that nylon entry thread seals are not suitable for use with the TruSeal cable gland range or 717 Series Stopper Plugs. Alternative entry thread seals are provided as standard with all TruSeal cable glands and as an optional extra with 717 Series Stopper Plugs.

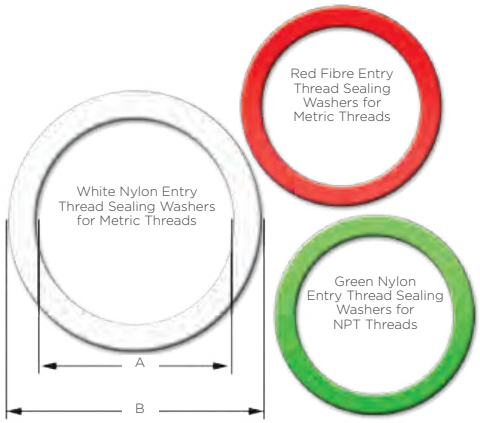
WHITE METRIC ENTRY THREAD SEALING WASHERS

ORDERING REFERENCE (METRIC)	REFERENCE DIAMETER 'A'	MINIMUM THICKNESS	EXTERNAL DIAMETER 'B'
16ETS2	M16	2.0	25.8
20ETS2	M20	2.0	28.3
25ETS2	M25	2.0	34.45
32ETS2	M32	2.0	44.2
40ETS2	M40	2.0	52.8
50ETS2	M50	2.0	64.8
63ETS2	M63	2.0	77.9
75ETS2	M75	2.0	95.9
90ETS2	M90	2.0	110.6
100ETS2	M100	2.0	120.7

GREEN NPT ENTRY THREAD SEALING WASHERS

ORDERING REFERENCE (NPT)	REFERENCE DIAMETER 'A'	MINIMUM THICKNESS	EXTERNAL DIAMETER 'B'
050NPTETS	½" NPT	2.0	29.65
075NPTETS	¾" NPT	2.0	34.4
100NPTETS	1" NPT	2.0	44.4
125NPTETS	1 ¼" NPT	2.0	55.9
150NPTETS	1 ½" NPT	2.0	64.8
200NPTETS	2" NPT	2.0	77.6
250NPTETS	2 ½" NPT	2.0	95.9
300NPTETS	3" NPT	2.0	110.6
350NPTETS	3 ½" NPT	2.0	120.7
400NPTETS	4" NPT	2.0	137.0

Dimensions shown are in mm unless otherwise stated



Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

INGRESS DISCS

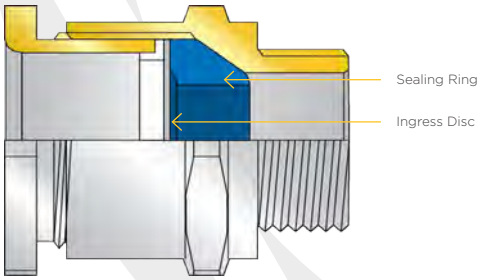
CMP ingress discs are used as a means of maintaining the integrity of the enclosure prior to availability of the cable. They can be used to exclude dust and moisture from entering the enclosure, enabling the cable gland to be installed prior to the cable.

CMP ingress discs are available for all CMP cable glands used in industrial and Ex e applications and are produced in high quality nickel plated brass with an ingress protection rating of IP66 when the sealing ring is engaged finger tight and one spanner turn, or as per the specific advice on CMP installation fitting instructions.

CMP Products' ingress discs are available for industrial and Ex e applications only.

Ingress discs can be ordered as a separate accessory using the below references or pre-installed in the cable gland by adding '1RD' to the ordering reference e.g. 20T3CDS1RD5 for a M20 nickel plated brass Triton CDS cable gland with ingress disc.

A2F



CABLE GLAND SIZE	CABLE GLAND TYPE		
	SS2K / PXSS2K	A**	E**/C**/PX**/T3CDS/TEIFU
20S16	ID015	ID015	ID025
20S	ID015	ID015	ID025
20	ID025	ID035	ID045
25S	-	-	ID065
25	ID045	ID055	ID065
32	ID065	ID075	ID085
40	ID085	ID085	ID105
50S	ID095	ID095	ID125
50	ID115	ID115	ID145
63S	ID135	ID135	ID165
63	ID145	ID155	ID185
75S	ID165	ID175	ID205
75	ID195	ID195	ID215
90	ID225	ID225	ID235
100	ID235	ID235	ID245
115	ID255	ID255	ID265
130	ID275	ID275	ID275

SHROUDS

CMP Products' shrouds minimise the risk of dirt or foreign substances gathering on the cable gland and point of cable to cable gland interface.

LSF shrouds are low smoke & fume (LSF), and phosphorus free to suit all CMP SOLO cable glands. Manufactured from low smoke, self-extinguishing, non-drip and halogen free material, these shrouds are rated UL94 V0 and are essential for areas where fire safety is key. CMP LSF shrouds and CMP SOLO cable glands meet the requirements of the London Underground Fire Safety Regulations and as such, they are LUL approved for use within the London Underground network.

CMP shrouds are available in a variety of colours using the ordering references shown here, not all colours are available in all materials, please enquire for further information.

Temperature ratings for CMP shrouds are as follows:

- PVC -60°C to +90°C
- LSF -60°C to +130°C
- PCP -60°C to +100°C

Shroud sizes are referenced on each product page.

SHROUD COLOUR	SHROUD MATERIAL - ORDERING EXAMPLES		
	LSF	PVC	PCP
BLACK	LSF06BLACK	PVC06	PCP06BLACK
BLUE GREY	LSF06	PVC06GREY	-
BLUE	-	PVC06BL	-
RED	-	PVC06RED	-
ORANGE	-	PVC06OR	-
GREEN	-	PVC06GRN	-
YELLOW	-	PVC06YL	-

CABLE GLAND SPANNERS METRIC

When installing cable glands and accessories it is important that the correct tools are used to carry out the installation.

This includes the use of the correct cable gland spanner specifically designed to fit each individual product to minimise the potential for accidental injury caused by slippage, as can be the case with adjustable spanners or wrenches.

METRIC		
SIZE	A2FI00	
	SPANNER 1	SPANNER 2
16	SP02	SP02
20S16	SP02	SP02
20S	SP02	SP02
20	SP03	SP03
20L	SP03	SP03
25	SP09	SP09
25L	SP09	SP09
32	SP08	SP08
32L	SP08	SP08
40	SP13	SP13
50S	SP14	SP14
50	SP18	SP18
63S	SP20	SP20
63	SP21	SP21
75S	SP23	SP23
75	SP23	SP23
90	SP26	SP26
100	SP36	SP36
115	SP30	SP30
130	SP38	SP38

**For additional spanner sizes and additional cable gland types please contact CMP

METRIC													
SIZE	A**		BW		C**			CXT		E**			
	SPANNER 1	SPANNER 2	SPANNER 1	SPANNER 2	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 1	SPANNER 2	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 4
16	SP01	SP01	-	-	-	-	-	-	-	-	-	-	-
20S16	SP03	SP01	-	-	SP03	SP03	SP03	SP03	SP01	-	-	-	-
20S	SP03	SP01	SP03	SP01	SP03	SP03	SP03	SP03	SP01	SP03	SP03	SP03	SP03
20	SP06	SP06	SP05	SP05	SP06	SP06	SP04	SP06	SP06	SP06	SP06	SP06	SP04
25 & 25S	SP09	SP09	SP08	SP08	SP09	SP09	SP07	SP09	SP09	SP09	SP09	SP09	SP07
32	SP12	SP12	SP12	SP12	SP13	SP13	SP13	SP12	SP12	SP12	SP12	SP13	SP13
40	SP15	SP13	SP15	SP15	SP15	SP14	SP14	SP15	SP13	SP15	SP15	SP14	SP14
50S	SP14	SP14	SP17	SP17	SP18	SP18	SP18	SP14	SP14	SP14	SP18	SP18	SP18
50	SP18	SP18	SP19	SP19	SP19	SP20	SP20	SP18	SP18	SP18	SP19	SP20	SP20
63S	SP20	SP19	SP20	SP21	SP20	SP21	SP21	SP20	SP19	SP20	SP20	SP21	SP21
63	SP21	SP20	SP39	SP22	SP22	SP22	SP22	SP21	SP20	SP21	SP39	SP22	SP22
75S	SP23	SP22	SP23	SP24	SP24	SP24	SP24	SP23	SP22	SP23	SP24	SP24	SP24
75	SP23	SP23	SP24	SP25	SP25	SP25	SP25	-	-	SP23	SP25	SP25	SP25
90	SP35	SP35	SP26	SP26	SP27	SP27	SP27	-	-	SP35	SP27	SP27	SP27
100	SP36	SP27	-	-	SP36	SP36	SP36	-	-	SP36	SP36	SP36	SP36
115	SP30	SP37	-	-	SP30	SP30	SP30	-	-	SP30	SP30	SP30	SP30
130	SP38	SP38	-	-	SP38	SP38	SP38	-	-	SP38	SP38	SP38	SP38

METRIC															
SIZE	T3CDS				SS2K			TC		PXSS2K			C2K / PX**		
	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 4	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 1	SPANNER 2	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 1	SPANNER 2	SPANNER 3
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20S16	SP03	SP01	SP03	SP03	SP03	SP03	SP03	-	-	-	-	-	-	-	-
20S	SP03	SP01	SP03	SP03	SP03	SP03	SP03	SP04	SP04	SP06	SP06	SP03	SP04	SP03	SP03
20	SP04	SP03	SP04	SP04	SP06	SP06	SP06	SP04	SP04	SP06	SP06	SP06	SP04	SP04	SP04
25 & 25S	SP07	SP07	SP07	SP07	SP09	SP09	SP09	SP07	SP07	SP09	SP09	SP09	SP07	SP07	SP07
32	SP13	SP07	SP13	SP13	SP12	SP12	SP12	SP13	SP13	SP12	SP12	SP12	SP13	SP13	SP13
40	SP14	SP13	SP14	SP14	SP15	SP15	SP15	SP16	SP16	SP15	SP15	SP15	SP14	SP14	SP14
50S	SP18	SP16	SP18	SP18	SP14	SP14	SP14	SP18	SP18	SP14	SP14	SP14	SP18	SP18	SP18
50	SP20	SP18	SP20	SP20	SP18	SP18	SP18	SP18	SP18	SP18	SP18	SP18	SP20	SP20	SP20
63S	SP21	SP19	SP21	SP21	SP20	SP20	SP20	SP21	SP20	SP20	SP20	SP20	SP21	SP21	SP21
63	SP22	SP20	SP22	SP22	SP21	SP21	SP21	SP21	SP21	SP21	SP21	SP21	SP22	SP22	SP22
75S	SP24	SP22	SP24	SP24	SP23	SP22	SP22	SP24	SP24	SP22	SP22	SP22	SP24	SP24	SP24
75	SP25	SP23	SP25	SP25	SP23	SP23	SP23	SP24	SP24	SP23	SP23	SP23	SP25	SP25	SP25
90	SP27	SP25	SP27	SP27	SP35	SP35	SP35	SP26	SP26	SP35	SP35	SP35	SP27	SP27	SP27
100	SP29	SP26	SP29	SP36	SP36	SP36	SP36	SP36	SP36	-	SP36	SP36	SP29	SP29	SP36
115	SP31	SP28	SP31	SP30	SP30	SP30	SP30	SP30	SP30	-	-	-	-	-	-
130	SP33	SP32	SP38	SP38	SP38	SP38	SP38	SP45	SP45	-	-	-	-	-	-

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.

CABLE GLAND SPANNERS NPT

When installing cable glands and accessories it is important that the correct tools are used to carry out the installation.

This includes the use of the correct cable gland spanner specifically designed to fit each individual product to minimise the potential for accidental injury caused by slippage, as can be the case with adjustable spanners or wrenches.

**For additional spanner sizes and additional cable gland types please contact CMP.

METRIC		
SIZE	A2F100	
	SPANNER 1	SPANNER 2
16	SP02	SP02
20S16	SP02	SP02
20S	SP02	SP02
20	SP03	SP03
20L	SP03	SP03
25	SP09	SP09
25L	SP09	SP09
32	SP08	SP08
32L	SP08	SP08
40	SP13	SP13
50S	SP14	SP14
50	SP19	SP19
63S	SP20	SP20
63	SP22	SP22
75S	SP23	SP23
75	SP25	SP25
90	SP26	SP26
100	SP36	SP36
115	SP30	SP30
130	SP38	SP38

NPT

SIZE		A**		C**			E**				SS2K			T3CDS / TE1FU				PXSS2K			C2K / PX**			TC	
		SPANNER 1	SPANNER 2	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 4	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 4	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 1	SPANNER 2	SPANNER 3	SPANNER 1	SPANNER 2
20S16	½"	SP03	SP01	-	SP03	SP03	SP03	-	-	-	SP03	SP03	SP03	SP03	SP01	SP03	SP03	-	-	-	-	-	-	-	-
	¾"	SP04	SP01	-	SP03	SP03	SP04	-	-	-	SP04	SP03	SP03	SP07	SP01	SP03	SP03	-	-	-	-	-	-	-	-
20S	½"	SP03	SP01	SP03	SP03	SP03	SP03	SP03	SP03	SP03	SP03	SP03	SP03	SP03	SP01	SP03	SP03	SP04	SP06	SP03	-	-	-	SP04	SP04
	¾"	SP06	SP01	SP06	SP03	SP03	SP06	SP03	SP03	SP03	SP06	SP03	SP03	SP07	SP01	SP03	SP03	SP04	SP06	SP03	-	-	-	SP07	SP04
20	½"	SP06	SP06	SP04	SP06	SP04	SP06	SP06	SP04	SP04	SP06	SP06	SP06	SP06	SP03	SP04	SP04	SP04	SP06	SP06	SP04	SP04	SP04	SP04	SP04
	¾"	SP04	SP06	SP04	SP06	SP04	SP04	SP06	SP04	SP04	SP04	SP06	SP06	SP04	SP03	SP04	SP04	SP04	SP06	SP06	SP04	SP04	SP04	SP07	SP04
25 & 25S	½"	SP09	SP09	SP09	SP09	SP07	SP09	SP09	SP07	SP07	SP09	SP09	SP09	SP07	SP07	SP07	SP07	SP09	SP09	SP09	SP07	SP07	SP07	SP07	SP07
	¾"	SP11	SP09	SP09	SP09	SP07	SP11	SP09	SP07	SP07	SP11	SP09	SP09	SP07	SP07	SP07	SP07	SP09	SP09	SP09	SP07	SP07	SP07	SP13	SP07
32	1"	SP12	SP12	SP12	SP13	SP13	SP12	SP13	SP13	SP13	SP12	SP12	SP12	SP13	SP07	SP13	SP13	SP12	SP12	SP12	SP13	SP13	SP13	SP13	SP13
	1¼"	SP13	SP12	SP13	SP13	SP13	SP13	SP13	SP13	SP13	SP13	SP12	SP12	SP13	SP07	SP13	SP13	SP13	SP12	SP12	SP13	SP13	SP13	SP16	SP13
40	1¼"	SP15	SP13	SP15	SP14	SP14	SP15	SP14	SP14	SP14	SP15	SP15	SP15	SP14	SP13	SP14	SP14	SP15	SP15	SP15	SP14	SP14	SP14	SP16	SP16
	1½"	SP15	SP13	SP15	SP14	SP14	SP15	SP14	SP14	SP14	SP15	SP15	SP15	SP14	SP13	SP14	SP14	SP15	SP15	SP15	SP14	SP14	SP14	SP18	SP16
50S	1½"	SP14	SP14	SP18	SP18	SP18	SP14	SP18	SP18	SP18	SP14	SP14	SP14	SP18	SP16	SP18	SP18	SP14	SP14	SP14	SP18	SP18	SP18	SP18	SP18
	2"	SP19	SP14	SP19	SP18	SP18	SP19	SP18	SP18	SP18	SP19	SP14	SP14	SP19	SP16	SP18	SP18	SP19	SP14	SP14	SP18	SP18	SP18	SP21	SP18
50	2"	SP19	SP18	SP19	SP20	SP20	SP19	SP20	SP20	SP20	SP19	SP18	SP18	SP20	SP18	SP20	SP20	SP20	SP18	SP18	SP20	SP20	SP20	SP20	SP18
	2½"	SP22	SP18	SP21	SP20	SP20	SP22	SP20	SP20	SP20	SP22	SP18	SP18	SP22	SP18	SP20	SP20	SP22	SP18	SP18	SP22	SP20	SP20	SP24	SP18
63S	2"	SP20	SP19	SP20	SP21	SP21	SP20	SP21	SP21	SP21	SP20	SP20	SP20	SP21	SP19	SP21	SP21	SP20	SP20	SP20	SP21	SP21	SP21	SP20	SP20
	2½"	SP22	SP19	SP21	SP21	SP21	SP22	SP21	SP21	SP21	SP22	SP20	SP20	SP22	SP19	SP21	SP21	SP22	SP20	SP20	SP21	SP21	SP21	SP24	SP20
63	2½"	SP22	SP20	SP39	SP22	SP22	SP22	SP22	SP22	SP22	SP22	SP21	SP21	SP22	SP20	SP22	SP22	SP22	SP21	SP21	SP22	SP22	SP22	SP24	SP21
	3"	SP25	SP20	-	SP22	SP22	SP25	SP22	SP22	SP22	SP25	SP21	SP21	SP25	SP20	SP22	SP22	SP25	SP21	SP21	SP25	SP22	SP22	SP26	SP21
75S	2½"	SP22	SP22	SP24	SP24	SP24	SP22	SP24	SP24	SP24	SP22	SP22	SP22	SP24	SP22	SP24	SP24	SP22	SP22	SP22	SP24	SP24	SP24	SP24	SP24
	3"	SP25	SP22	SP24	SP24	SP24	SP25	SP24	SP24	SP24	SP25	SP22	SP22	SP25	SP22	SP24	SP24	SP25	SP22	SP22	SP24	SP24	SP24	SP26	SP24
75	3"	SP25	SP23	SP25	SP25	SP25	SP25	SP25	SP25	SP25	SP25	SP23	SP23	SP25	SP23	SP25	SP25	SP25	SP23	SP23	SP25	SP25	SP25	SP26	SP24
	3½"	SP26	SP26	-	SP25	SP25	SP26	SP25	SP25	SP25	SP26	SP23	SP23	SP26	SP23	SP25	SP25	-	SP23	SP23	SP27	SP25	SP25	SP36	SP24
90	3"	SP35	SP35	SP27	SP27	SP27	SP35	SP27	SP27	SP27	SP35	SP35	SP35	SP27	SP25	SP27	SP27	SP35	SP35	SP35	SP27	SP27	SP27	SP26	SP26
	3½"	-	-	SP27	SP27	SP27	-	-	-	-	-	-	-	-	-	-	-	SP35	SP36	SP36	-	-	-	SP36	SP36
	4"	SP36	SP35	SP27	SP27	SP27	SP36	SP27	SP27	SP27	SP36	SP35	SP35	SP27	SP25	SP27	SP27	-	-	-	SP27	SP27	SP27	SP30	SP30
100	4"	SP36	SP27	-	SP36	SP36	SP36	SP36	SP36	SP36	SP36	SP36	SP36	SP29	SP26	SP29	SP36	SP36	-	-	SP30	SP29	SP36	SP30	SP45
115	4"	SP30	SP37	-	SP30	SP30	SP30	SP30	SP30	SP30	SP30	SP30	SP30	SP29	SP28	SP31	SP30	-	-	-	-	-	-	SP30	SP30
130	5"	-	-	-	SP38	SP38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SP45	SP45

NPT

SIZE	TMC / TMCX		SIZE		TMC2		TMC2X		SIZE		TMC2		TMC2X	
	SPANNER 1	SPANNER 2			SPANNER 1	SPANNER 2	SPANNER 1	SPANNER 2			SPANNER 1	SPANNER 2	SPANNER 1	SPANNER 2
05S	SP04	SP04	20S	½"	SP04	SP04	SP04	SP04	50	1½"	SP21	SP19	SP21	SP19
050	SP09	SP09	20S	¾"	SP07	SP04	SP04	SP04	63S	2"	SP21	SP20	SP21	SP20
075	SP12	SP12	20	½"	SP07	SP07	SP07	SP07	63S	2½"	SP24	SP20	SP24	SP20
100	SP15	SP15	20	¾"	SP07	SP07	SP07	SP07	63	2"	SP24	SP21	SP24	SP21
125	SP14	SP14	25	¾"	SP13	SP13	SP13	SP13	75	2½"	SP24	SP24	SP24	SP24
150	SP18	SP18	25	1"	SP13	SP13	SP13	SP13	75	3"	SP26	SP24	SP26	SP24
20S	SP20	SP20	32	1"	SP16	SP16	SP16	SP16	90	3"	SP26	SP26	SP26	SP26
200	SP21	SP21	32	1¼"	SP16	SP16	SP16	SP16	90	3½"	SP36	SP26	SP26	SP26
25S	SP22	SP22	40S	1¼"	SP18	SP18	SP18	SP18	100	3½"	SP36	SP36	SP25	SP36
250	SP23	SP23	40S	1½"	SP18	SP18	SP18	SP18	100	4"	SP30	SP36	SP36	SP36
300	SP26	SP26	40	1¼"	SP19	SP18	SP19	SP18	115	4"	SP30	SP30	SP30	SP30
350	SP30	SP30	40	1½"	SP19	SP18	SP19	SP18						
400	SP30	SP30	50S	1½"	SP20	SP19	SP20	SP19						

Dimensions listed are for metric accessories only. Dimensions for alternative threads may vary.


HAL-ST-01
TOOL BOX
DIM 138X75X205
SN-10858260
NGW 2.00 T