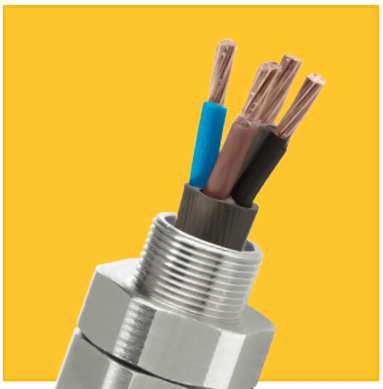
www.cmp-products.com

CMP CABLE GLANDS & ACCESSORIES

AUSTRALIA & NEW ZEALAND PRODUCT CATALOGUE



SAFETY

CMP PRODUCTS

WHAT WE PROMISE FOR YOUR BUSINESS

CMP PRODUCTS IS A MARKET LEADING SPECIALIST DESIGNER, MANUFACTURER, AND SUPPLIER OF CABLE GLANDS, CABLE CLEATS AND ACCESSORIES.

Established as part of British Engines group in 1957, we have ensured that our customers remain at the heart of everything that we do, wherever they are around the world.

We believe in setting standards for quality and service, and leading the way in product innovation, whilst maintaining integrity, safety and reliability. This means that whether our products are used for onshore or offshore oil and gas installations, in power generation, transportation infrastructure, or for surface or underground mining applications, they always protect the safety of your people and your infrastructure.

By remaining focused on this commitment to our customers, our business has grown to become a world leader in our market, continuing to provide assurance of the highest standards of quality and service.

INNOVATION IN PRODUCTS & SOLUTIONS
Evolving technical standards and stringent certification processes have helped to drive innovation at CMP. As a market leader in cable gland and cable cleat technology, we invest heavily in advanced manufacturing techniques, dedicated IT systems and effective training for our employees and customers.

The solutions chosen by our customers are often rigorously tested to perform above and beyond the normal standards, since they are used in progressively demanding applications and environments.

PEOPLE & NETWORKS
CMP's structure allows us the flexibility to meet these continuously evolving needs, and we nurture this culture further by recruiting specialist, highly talented people in all areas of our business.

We have also formed excellent relationships with the people and organizations that do business with us, developing alliances with distributors and end-users internationally. This network is key to our strategy for bringing products to a worldwide market, via a strategic global distribution network reflective of our business.

CUSTOMER CARE
Putting the customer at the centre of what we do and ensuring a positive experience for everyone we work with is a vital part of our vision.

AN INTRODUCTION TO CABLE GLANDS & CLEATS

CABLE GLANDS ARE MECHANICAL CABLE ENTRY DEVICES USED TO TERMINATE CABLE, CABLE CLEATS RESTRAIN THE CABLE.

They are used throughout all industries in conjunction with cable and wiring used in electrical, instrumentation, control and automation systems.

Cable glands may be used on all types of electrical power, control, instrumentation, data and telecommunications cables and are used as sealing/terminating devices to ensure that the characteristics of the enclosure which the cable enters can be safely maintained. The main functions of the cable gland, 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 ground 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.
- Constructed from corrosion-resistant materials determined by selection to a technical standard, or by corrosion resistance tests.

Cable cleats are devices designed and tested to ensure the retention and support of cables. CMP cable cleats are designed and 3rd party tested to IEC 61914 and are available for all industries including rail where securing low, medium or high voltage cables safely, is vital. By ensuring the cables are fixed, retained and supported correctly this protects all of the cable terminations by reducing the mechanical load exerted on them.

WHY CHOOSE CMP PRODUCTS?

QUALITY ASSURANCE & RELIABILITY

CMP PRODUCTS HAS AN INTERNATIONAL REPUTATION FOR QUALITY AND RELIABILITY AND IS HIGHLY REGARDED AS THE LEADING SPECIALIST IN THE DESIGN AND MANUFACTURE OF CABLE GLANDS AND ACCESSORIES FOR GENERAL PURPOSE AND HAZARDOUS LOCATIONS.

This position as market leader is maintained by listening to our customers and understanding their needs, to ensure that our solutions are practical to install and fully compliant with the latest industry standards and specifications.

In recognition of the need to demonstrate and maintain standards, CMP Products has attained approval as a 'quality assured' company, covering the design and manufacture of cable glands, cable cleats and associated accessories. Our Integrated management system is approved to ISO 9001:2015, ISO 14001:2015 and ISO45001:2018 with our 3rd party periodic audit and ongoing approval is performed by Bureau Veritas.

RESEARCH & DEVELOPMENT

Research and development (R&D) is fundamental to the successful advances made with our product innovations and is a major contributor to helping customers achieve reciprocal success, whilst setting CMP apart from the rest of the market. R&D at CMP Products is powered by an engineering community of highly skilled technical experts in several locations around the world.

Such a comprehensive R&D team allows us to create bespoke solutions to meet the needs of our customers, which in turn can be thoroughly tested in our on-site certified laboratory and then third party certified if required.

COMPLIANCE WITH CURRENT STANDARDS

CMP Products leads the way in the application of technical standards and with a dedicated certification team we design, manufacture and supply products that are compliant with all of the latest standards for NEC, CEC and IEC based installations.

TECHNICAL SUPPORT & TRAINING

With several offices spread across six continents including Europe, the Americas, Australia, Asia and Africa we are able to satisfy the worldwide demand for comprehensive training in the installation of our products.

Attendees at all CMP training courses will receive a certificate of proficiency following successful completion. We also provide installation videos, as well as technical support and practical demonstrations at your premises or on-site.

GLOBAL CERTIFICATION

CMP Products remains in constant touch with the development of national and international technical standards, and consequently is able to offer product solutions that are certified for multiple applications around the world. This entails a number of single off-the-shelf product solutions marked with Global Certification as standard.

INTERNATIONAL EXPLOSIVE ATMOSPHERES APPROVALS HELD INCLUDE cCSAus, CSA, UL, ATEX, IECEx, INMETRO, KCS, NEPSI, CIDET, CCOE / PESO, RETIE, EAC AND MARINE APPROVALS.

INDUSTRIES & KEY FEATURES

ABOVE GROUND MINING

Open Cut / Processing

- Terminate all cables unamoured, armoured, braid, copper tape
- Long thread glands suitable for thick gland plates
- Deluge protection limits corrosion in armour and superior IP rating

UNDERGROUND MINING

Coal Mining

- SIMTARS certified for Queensland market
- FRAS hose clamp glands - A2F100HC
- 100% pull test - Do not require immediate clamping
- Cable gland comprehensive package - glands, stopping plugs, reducers & adaptors

RENEWABLES

Solar & Wind Farms

- Nylon and metallic cable gland materials
- Superior EMC performance
- V0 rated nylon glands
- High UV tested

DEFENCE

Land, Sea & Air

- Military standard testing
- Marine certification
- Superior impact, shock and deluge testing

INFRASTRUCTURE

Road & Rail Tunnels

- Nylon and metallic cable gland materials
- Low Smoke and Fume Zero Halogen (LSF0H)
- LUL - London Underground approval
- Long threaded glands - suitable for thick gland plates
- EMC tested

OIL & GAS

Upstream & Downstream

- Global certification and marking
- Metal-to-metal tightening for reliability
- Superior earth continuity
- RapidEx resin solution barrier glands
- Certified conduit accessories - reducers, adaptors, 90° adaptors

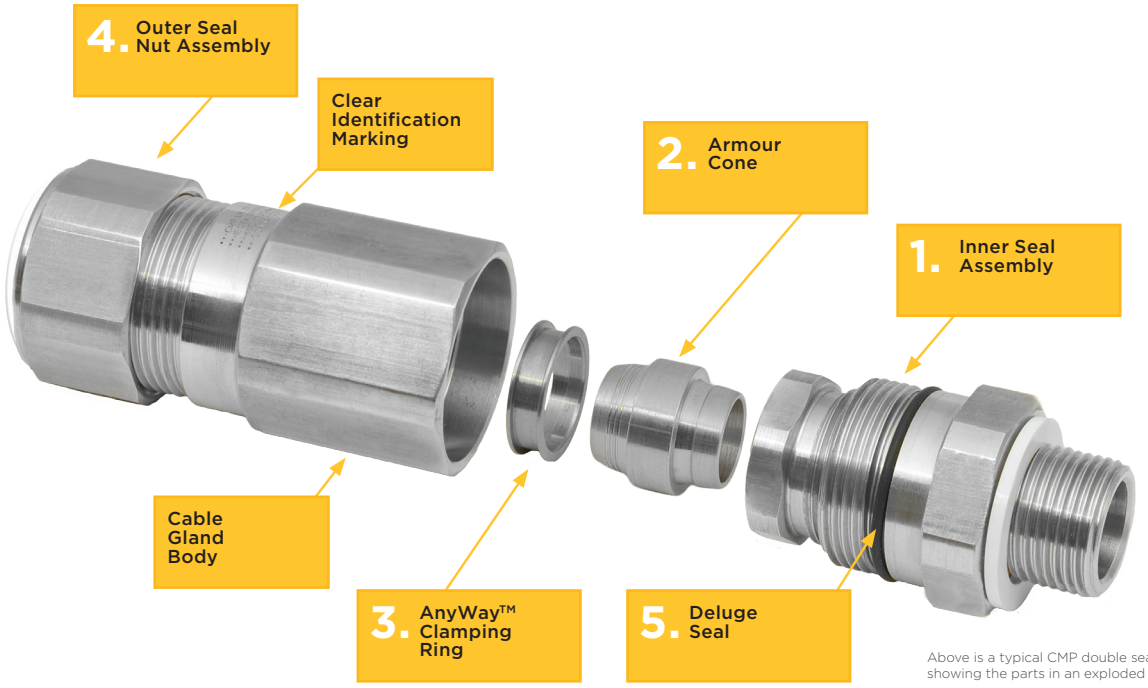
POWER STATIONS & SUBSTATIONS

- Terminate all cables
- Long threaded glands - suitable for thick gland plates
- EMC tested

CABLE CLEATS

- Tested to IEC 61914
- Low Smoke and Fume Zero Halogen (LSF0H)
- London Underground Approved (LUL)
- Various materials: Nylon, Aluminium and 316L Stainless Steel
- All formations: Single, Trefoil and Quad
- Suitable for all industries
- Bespoke solutions

TYPICAL CMP DOUBLE SEAL CABLE GLAND



Above is a typical CMP double seal cable gland showing the parts in an exploded view.

1.

UNIQUE INDEPENDENT INNER SEALING

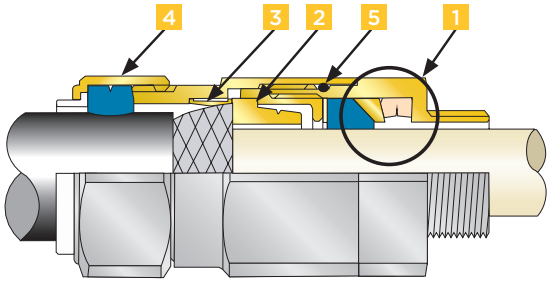
The CMP inner sealing principal is quite different from other cable gland types and because the activation of the inner sealing ring is separated from the armour clamping components this means that the possibility of inadvertent over-tightening is eliminated. Unlike traditional compression seals that have no means of direct control on their application, the CMP inner sealing technique is achieved using a displacement seal that is independently controlled by the user during installation.

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 and coldflow characteristics.

2/3.

SECURE ARMOUR TERMINATION

CMP Products' armour clamping method involves a unique termination solution that ensures a permanent crimping of the cable armour, creating a low impedance connection that does not suffer from self-loosening. 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 as well as reliable ground continuity.



4.

OUTER SEAL

The unique CMP Products 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.

PROVEN INTERNALLY ENCLOSED 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.

RAPIDEX
THE FAST CURING, GAS BLOCKING, LIQUID RESIN SEAL

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

Traditional barrier type 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 lengthly installation time to ensure a void-free, safe installation. An inability to recognize this will lead to rework, or risk of failure of the seal.

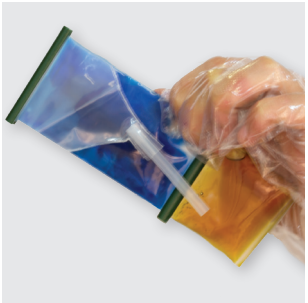
RapidEx is a liquid pour, fast curing, liquid resin barrier seal that installs in seconds and cures in minutes.

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'.

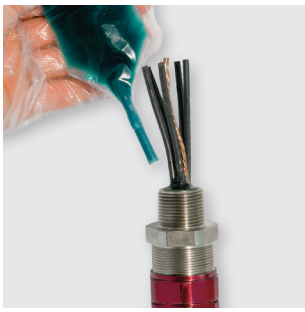
- The viscosity increases and completely cures in less than 40 minutes (at 20°C)
- Enhances reliability, reduces risk
- Delivers unprecedented reliability
- Minimizes installation time
- Clean and easy to use

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

THREAD SIZE	CABLE GLAND SIZE (**PX2KREX1RA5 & **PXSS2KREX1RA5)													
LINE 1	20S	20/ 20L	25	25S	32	40	50S	50	63S	63	75S	75	90	100
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													2 x 80	
M100														3 x 80

The table above shows the quantity and volume (30cc or 80cc bag) of RapidEx resin required for each cable gland size.

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

MATERIAL AND THREAD SPECIFICATION

MATERIALS		
BRASS EXTRUSION*	BS EN 12164:2011 / BS EN 12168:2011	Grade: CuZn39Pb3 (CW614N)
STAINLESS STEEL EXTRUSION	EN 10088-3 : 2014	Grade: 316S11, 316S13, 316S3, 316S33, 316, 316L
ALUMINIUM EXTRUSION	BS EN 573-3:2013 / BS EN 755-1, -2, -3:2008	Grade: 6082 T6 OR 6262 T6
ALUMINIUM CASTINGS	BS EN 1706:2010 / BS EN 1676:2010	Grade: ENAC42000 / LM25TF
BRASS CASTINGS*	BS 1400 : 1985	Grade: GB/T 5231-2012 HPb58-3 / ASTM38000, JIS C3604

* Brass products may be nickel plated to a maximum thickness of 0.008mm
Materials will contain less than: 7.5% magnesium, 7.5% titanium, 7.5% zirconium

THREAD CONSTRUCTION STANDARDS	
METRIC	ISO 965-1, ISO 965-3 medium fit (6g) for external threads, (6H) for internal threads
IMPERIAL CONDUIT (ET)	BS 31:1940 (1979) Table 'A' external threads, Table 'B' internal threads
PG	DIN 40430:1971
BSPP	BS2279:1986 class A full form threads
BSPT	BS2279:1986 standard threads only as clause 5.4, gauging to clause 5.2, system A
ISO	ISO 7/1:1994 gauging to ISO 7/2 clause 6.3 external threads, 6.2 internal threads
NPT	ANSI / ASME B1.20.1 - 2013 gauging to clause 3.2.1 for external threads, 3.2.2 for internal threads and IEC 60981
NPSM	ANSI /ASME B1.20.1 - 2013 gauging to clause 6.4

ISO METRIC IEC 60423

THREAD REFERENCE	16	20	25	32	40	50	63	75	90
THREAD SIZE	M16	M20	M25	M32	M40	M50	M63	M75	M90
THREAD PITCH	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0
THREAD PER INCH	16.93	16.93	16.93	16.93	16.93	16.93	16.93	16.93	12.7
MAJOR DIAMETER MAX	15.97	19.97	24.97	31.97	39.97	49.97	62.97	74.97	89.97
RECOMMENDED CLEARANCE HOLE	16.5	20.5	25.5	32.5	40.5	50.5*	63.5*	75.5*	90.5

PG DIN 40430

THREAD REFERENCE	PG7	PG9	PG11	PG13.5	PG16	PG21	PG29	PG36
THREAD SIZE	PG7	PG9	PG11	PG13.5	PG16	PG21	PG29	PG36
THREAD PITCH	1.27	1.41	1.41	1.41	1.41	1.59	1.59	1.59
THREAD PER INCH	20	18	18	18	18	16	16	16
MAJOR DIAMETER MAX	12.5	15.2	18.6	20.4	22.5	28.3	37.0	47.0
RECOMMENDED CLEARANCE HOLE	13.0	15.5	19.0	21.0	23.0	28.5	37.5	47.5

NPT ANSI B1.20.1

THREAD REFERENCE		050	075	100	125	150	200	250	300	
THREAD SIZE		½"	¼"	1"	1¼"	1½"	2"	2½"	3"	
THREAD PITCH		1.81	1.81	2.2	2.2	2.2	2.2	3.18	3.18	
THREAD PER INCH		14	14	11.5	11.5	11.5	11.5	8	8	
MAJOR DIAMETER MAX	METRIC	21.34	26.67	33.4	42.16	48.26	60.33	73.03	88.9	
	IMPERIAL	0.84"	1.05"	1.32"	1.66"	1.90"	2.38"	2.88"	3.50"	
RECOMMENDED CLEARNACE HOLE	METRIC	21.5	27.0	34.0	42.5	48.5	60.5*	73.5*	89.5*	
	IMPERIAL	55/64"	1-1/16"	1-21/64"	1-43/64"	1-29/32"	2-25/64"*	2-57/64"*	3-33/64"*	
		0.86"	1.06"	1.33"	1.67"	1.91"	2.39"*	2.89"*	3.52"*	

BSPP

THREAD REFERENCE		050	075	100	125	150	200	250	300
THREAD SIZE		½"	¼"	1"	1¼"	1½"	2"	2½"	3"
THREAD PITCH		1.81	1.81	2.31	2.31	2.31	2.31	2.31	2.31
THREAD PER INCH		14	14	11	11	11	11	11	11
MAJOR DIAMETER MAX	METRIC	20.96	26.44	33.25	41.91	47.8	59.61	75.19	87.88
	IMPERIAL	0.83"	1.04"	1.31"	1.65"	1.88"	2.35"	2.96"	3.46"
RECOMMENDED CLEARNACE HOLE	METRIC	21.5	27.0	33.5	42.5	48.0	60.0	75.5*	88.5*
	IMPERIAL	27/32"	1-1/16"	1-5/16"	1-43/64"	1-57/64"	2-23/64"*	2-31/32"	3-31/64"*
		0.84"	1.06"	1.31"	1.67"	1.89"	2.36"*	2.97"	3.48"*

NPSM ANSI B1.20.1

THREAD REFERENCE		050	075	100	125	150	200	250	300	
THREAD SIZE		½"	¼"	1"	1¼"	1½"	2"	2½"	3"	
THREAD PITCH		1.81	1.81	2.2	2.2	2.2	2.2	3.18	3.18	
THREAD PER INCH		14	14	11.5	11.5	11.5	11.5	8	8	
MAJOR DIAMETER MAX	METRIC	20.9	26.26	32.84	41.6	47.67	59.71	72.16	88.06	
	IMPERIAL	0.82"	1.03"	1.29"	1.64"	1.88"	2.35"	2.84"	3.47"	
RECOMMENDED CLEARANCE HOLE	METRIC	21.5	26.5	33.0	42.0	48.0	60.0	72.5*	88.5*	
	IMPERIAL	27/32"	1-3/64"	1-5/16"	1-21/32"	1-57/64"	2-3/8"	2-27/32"	3-31/64"*	
		0.84"	1.05"	1.31"	1.66"	1.89"	2.38"	2.84"	3.48"*	

BSPT

THREAD REFERENCE		050	075	100	125	150	200	250	300
THREAD SIZE		½"	¼"	1"	1¼"	1½"	2"	2½"	3"
THREAD PITCH		1.81	1.81	2.31	2.31	2.31	2.31	2.31	2.31
THREAD PER INCH		14	14	11	11	11	11	11	11
MAJOR DIAMETER MAX	METRIC	20.96	26.44	33.25	41.91	47.8	59.61	75.18	87.88
	IMPERIAL	0.83"	1.04"	1.31"	1.65"	1.88"	2.35"	2.96"	3.46"
RECOMMENDED CLEARANCE HOLE	METRIC	21.5	27.0	33.5	42.5	48.0	60.0	75.5*	88.5*
	IMPERIAL	27/32"	1-1/16"	1-5/16"	1-43/64"	1-57/64"	2-23/64"*	2-31/32"	3-31/64"*
		0.84"	1.06"	1.31"	1.67"	1.89"	2.36"*	2.97"	3.48"*

All dimensions in millimeters unless stated
*Non-standard drill size

TSP

TRUSEAL POLYMER

TRUSEAL TSP POLYMER, INDUSTRIAL CABLE GLAND

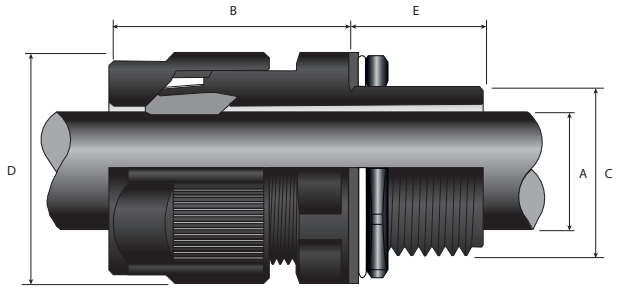
shown in black with standard seal and locknut

FOR ALL TYPES OF UNARMOURED 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
- Box order quantity applies
- Approved entry thread sealing washer included
- Locknut supplied assembled

IP66 IP67 IP68 IP69K UV CE +100°C -40°C

COLOUR	SUFFIX	METRIC ORDERING EXAMPLE
BLACK - RAL9011	-	12TSP2TNL/A
GREY - RAL7035	1	12TSP2TN1L/A
GREY - RAL7001	2	12TSP2TN2L/A
WHITE	3	12TSP2TN3L/A
BLUE - RAL5015	4	12TSP2TN4L/A
RED - RAL3000	5	12TSP2TN5L/A



TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
MECHANICAL CLASSIFICATION*	12-16 Impact = Level 4, 20-63 Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	12-16 IK07 to IEC 62262 (contact CMP for specific impact) 20-63 IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING	IP66, IP67, IP68**, IP69 & IP69K
CABLE GLAND MATERIAL	Halogen-free Polyamide
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Unarmoured & 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 62444 and EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

ORDERING REFERENCE WITH LOCKNUT	BOX QUANTITY	AVAILABLE ENTRY THREADS 'C'		OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
		METRIC	LONG THREAD LENGTH (METRIC) 'E'	MIN	MAX	MAX	MAX	
12TSP2TNL/A	50	M12	15.0	3.0	6.5	15.0	16.4	27.0
16STSP2TNL/A	50	M16	15.0	3.0	7.0	19.0	20.9	27.0
16TSP2TNL/A	50	M16	15.0	6.0	10.0	19.0	20.9	27.0
20STSP2TNL/A	25	M20	15.0	5.0	10.0	24.0	26.2	30.5
20TSP2TNL/A	25	M20	15.0	9.0	14.0	24.0	26.2	30.5
25STSP2TNL/A	25	M25	15.0	9.0	15.5	30.0	32.7	36.0
25TSP2TNL/A	25	M25	15.0	12.5	18.0	30.0	32.7	36.0
32STSP2TNLA	10	M32	15.0	12.5	19.0	40.0	43.6	41.0
32TSP2TNL/A	10	M32	15.0	17.0	25.0	40.0	43.6	41.0
40STSP2TNL/A	6	M40	18.0	19.0	27.0	50.0	54.5	49.0
40TSP2TNL/A	6	M40	18.0	24.0	32.0	50.0	54.5	49.0
50STSP2TNL/A	2	M50	18.0	22.0	32.0	58.0	63.2	59.0
50TSP2TNL/A	2	M50	18.0	28.0	38.0	58.0	63.2	59.0
63STSP2TNL/A	2	M63	18.0	28.0	39.0	68.0	74.1	64.0
63TSP2TNL/A	2	M63	18.0	37.0	48.0	68.0	74.1	64.0

Dimensions are displayed in millimetres unless otherwise stated

TSPV0

TRUSEAL POLYMER SOLO

TSPV0 UL94 V-0 APPROVED, INDUSTRIAL CABLE GLAND

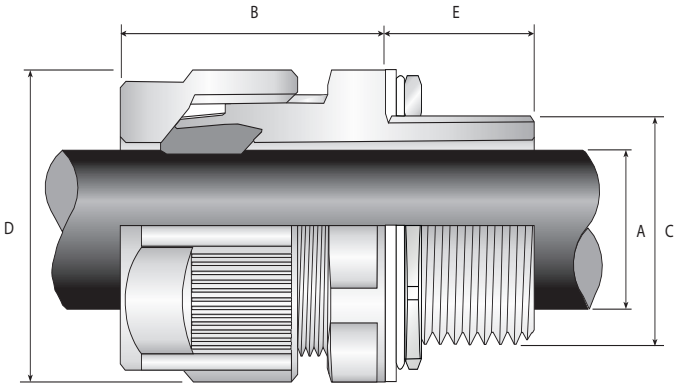
shown in grey ral7035 with dual seal

FOR ALL TYPES OF UNARMOURED 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
- Approved entry thread sealing washer included
- Locknut supplied assembled

IP66 IP67 IP68 IP 69K UV CE +100°C -40°C



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** & 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 & 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 62444 and EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

ORDERING REFERENCE WITH LOCKNUT	AVAILABLE ENTRY THREADS 'C'		OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
	METRIC	LONG THREAD LENGTH (METRIC) 'E'	MIN	MAX	MAX	MAX	
12TSPV02TN1L	M12	15.0	3.0	6.5	15.0	16.4	27.0
16STSPV02TN1L	M16	15.0	3.0	7.0	19.0	20.9	27.0
16TSPV02TN1L	M16	15.0	6.0	10.0	19.0	20.9	27.0
20STSPV02TN1L	M20	15.0	5.0	10.0	24.0	26.2	30.5
20TSPV02TN1L	M20	15.0	9.0	14.0	24.0	26.2	30.5
25STSPV02TN1L	M25	15.0	9.0	15.5	30.0	32.7	36.0
25TSPV02TN1L	M25	15.0	12.5	18.0	30.0	32.7	36.0
32STSPV02TN1L	M32	15.0	12.5	19.0	40.0	43.6	41.0
32TSPV02TN1L	M32	15.0	17.0	24.8	40.0	43.6	41.0
40STSPV02TN1L	M40	18.0	19.0	27.0	50.0	54.5	49.0
40TSPV02TN1L	M40	18.0	24.0	32.0	50.0	54.5	49.0
50STSPV02TN1L	M50	18.0	22.0	32.0	58.0	63.2	59.0
50TSPV02TN1L	M50	18.0	28.0	38.0	58.0	63.2	59.0
63STSPV02TN1L	M63	18.0	28.0	39.0	68.0	74.1	64.0
63TSPV02TN1L	M63	18.0	37.0	48.0	68.0	74.1	64.0

Dimensions are displayed in millimetres unless otherwise stated

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 CABLES

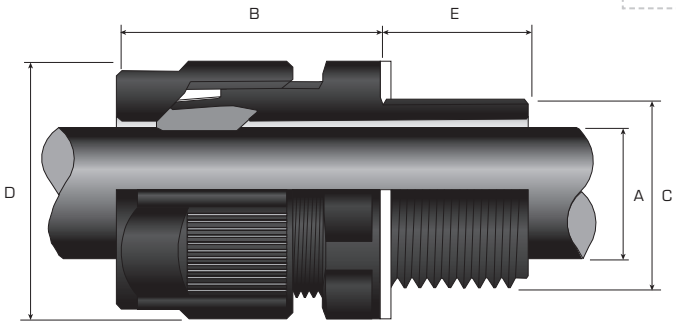
- Halogen and phosphorus-free
- Finger-locking seal provides superior cable retention and strain relief
- Approved to the latest editions of IEC/EN 60079
- Internationally marked IECEx and ATEX
- Intrinsically safe (Ex i) blue nut version available
- 3rd party certified to IEC/EN 62444
- Widest cable 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

IP66 IP67 IP68 IP 69K
Ex eb Ex ta UV +95°C ↑ -60°C

TECHNICAL DATA	
DESIGN SPECIFICATION	IEC 62444, EN 62444 (EN Metric only)
MECHANICAL CLASSIFICATION*	Size 16 Impact = Level 5, 20-63 Impact = Level 6, Cable Anchorage = Type A
ENCLOSURE PROTECTION	Size 16 IK07 to IEC 62262 (4 joules), 20-63 IK08 to IEC 62262 (7 joules)
INGRESS PROTECTION RATING	IP66, IP67, IP68** & IP69K
CABLE GLAND MATERIAL	Halogen-free Polyamide
SEAL MATERIAL	CMP SOLO LSF Halogen-free Thermoset Elastomer
CABLE TYPE	Unarmoured & 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 62444 and 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
ATEX COMPLIANCE STANDARDS	EN 60079-0,7,31	IECEx COMPLIANCE STANDARDS	IEC 60079-0,7,31
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
MARINE APPROVALS	DNV: TAE000000Y		



PRODUCT SELECTION TABLE WITH DUAL SEALING RANGE

ORDERING REFERENCE WITHOUT LOCKNUT	AVAILABLE ENTRY THREADS 'C'		OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'B'
	METRIC	THREAD LENGTH (METRIC) 'E'	MIN	MAX	MAX	MAX	
16DTSPE1TAL	M16	15.0	3.2	10.0	19.0	20.9	27.0
20DTSPE1TAL	M20	15.0	5.5	14.0	24.0	26.2	30.5
25DTSPE1TAL	M25	15.0	9.0	18.0	30.0	32.7	36.0
32DTSPE1TAL	M32	15.0	12.5	25.0	40.0	43.6	41.0
40DTSPE1TAL	M40	18.0	19.0	32.0	50.0	54.5	49.0
50DTSPE1TAL	M50	18.0	22.0	38.0	58.0	63.2	59.0
63DTSPE1TAL	M63	18.0	28.0	48.0	68.0	74.1	64.0

Dimensions are displayed in millimetres unless otherwise stated

TSM

TRUSEAL METALLIC

TRUSEAL TSM INDUSTRIAL, METALLIC CABLE GLAND

shown with standard seal

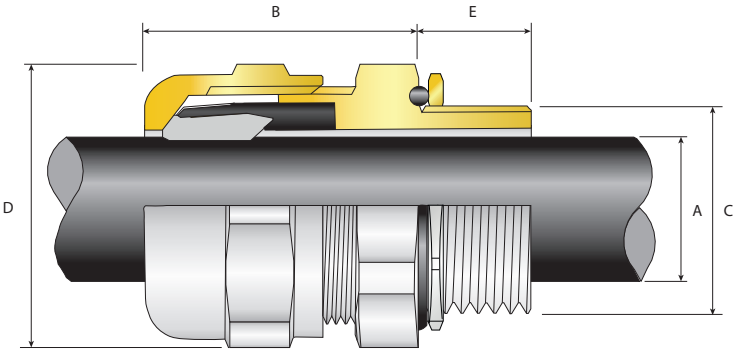
FOR ALL TYPES OF UNARMOURED CABLE

- Finger-locking seal provides superior cable retention and strain relief
- 3rd party certified to IEC/EN 62444
- Widest cable range take for any comparable cable gland
- 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
- Locknut supplied assembled

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 & IP69K
CABLE GLAND MATERIAL	Nickel Plated Brass
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured and Braided (Braid terminated inside enclosure)
SEALING TECHNIQUE	CMP Unique finger-locking type seal
SEALING AREA(S)	Cable Outer Sheath

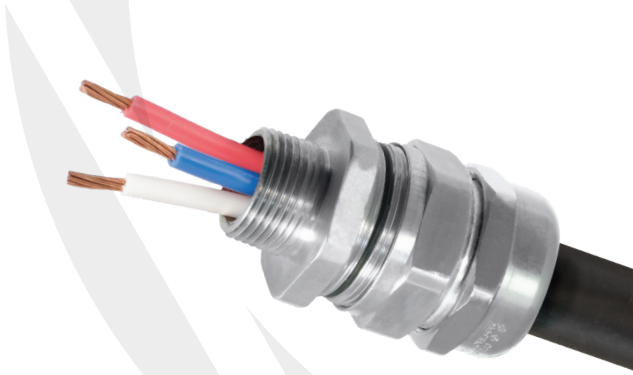
* Mechanical Classifications applied as per IEC 62444 and EN 62444
** IP68 tested to 300 kPa for 16 hours (equivalent to 30 metres water depth)

PRODUCT SELECTION TABLE WITH STANDARD SEALING RANGE

ORDERING REFERENCE WITH LOCKNUT	AVAILABLE ENTRY THREADS 'C'		OVERALL CABLE DIAMETER 'A'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	SHROUD	PROTRUSION LENGTH 'B'
	METRIC	LONG THREAD LENGTH (METRIC) 'E'	MIN	MAX	MAX	MAX		
12TSM2TN5L/A	M12	12.0	3.0	6.5	16.0	17.6	-	22.3
16STSM2TN5L/A	M16	12.0	3.0	7.0	20.0	22.0	-	23.6
16TSM2TN5L/A	M16	12.0	6.0	10.0	20.0	22.0	-	23.6
20STSM2TN5L/A	M20	12.0	5.0	10.0	24.0	26.4	PVC04	26.7
20TSM2TN5L/A	M20	12.0	9.0	14.0	24.0	26.4	PVC04	26.7
25STSM2TN5L/A	M25	12.0	9.0	15.5	30.0	33.0	PVC06	32.0
25TSM2TN5L/A	M25	12.0	12.5	18.0	30.0	33.0	PVC06	32.0
32STSM2TN5L/A	M32	12.0	12.5	19.0	39.0	42.9	PVC10	37.8
32TSM2TN5L/A	M32	12.0	17.0	25.0	39.0	42.9	PVC10	37.8
40STSM2TN5L/A	M40	15.0	19.0	27.0	50.0	55.0	PVC13	44.7
40TSM2TN5L/A	M40	15.0	24.0	32.0	50.0	55.0	PVC13	44.7
50STSM2TN5L/A	M50	15.0	22.0	32.0	57.0	62.7	PVC16	48.7
50TSM2TN5L/A	M50	15.0	28.0	38.0	57.0	62.7	PVC16	48.7
63STSM2TN5L/A	M63	15.0	28.0	39.0	68.0	74.8	PVC19	52.2
63TSM2TN5L/A	M63	15.0	37.0	48.0	68.0	74.8	PVC19	52.2

Dimensions are displayed in millimetres unless otherwise stated

TMC



TMC INDUSTRIAL HEAVY DUTY CABLE GLAND

FOR VARIABLE SPEED DRIVE (VSD) UNARMOURED CABLES WITH COPPER TAPE SCREEN

- Standard material nickel plated brass
- High quality durable materials
- Robust, heavy duty design
- Simple, sequential installation process
- Integral protected deluge seal
- Low Impedance Copper Plated Stainless Steel 360° Grounding Spring
- EMC tested
- -60˚C to +130˚C

IP66

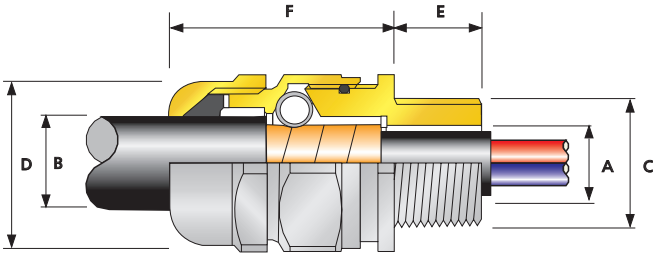
EMC

CE

+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
INGRESS PROTECTION RATING**	IP66**
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass (standard), Stainless Steel, Aluminium
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Screened, Tape Armour, including Variable Speed Drive Cables (VSD) with Copper Tape Screen
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.

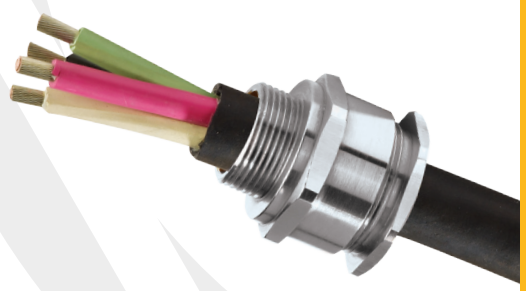


ORDERING REFERENCE	ENTRY THREAD 'C'	MINIMUM THREAD LENGTH 'E'	CABLE ARMOR DIAMETER 'A'				OVERALL CABLE DIAMETER 'B'		PROTRUSION LENGTH 'F'	MAX		SHROUD	WEIGHT (kg)
			END STOP IN		END STOP OUT		MIN	MAX		ACROSS FLATS 'D'	ACROSS CORNERS 'D'		
			MIN	MAX	MIN	MAX							
CMPTMC050SNB1AA5	M20	15.0	No Stop	No Stop	8.6	12.7	8.9	14.0	46.5	30.5	33.6	PVC06	0.147
CMPTMC050NB1AA5	M20	15.0	No Stop	No Stop	11.1	17.0	13.0	20.1	52.3	36.0	39.6	PVC09	0.224
CMPTMC075NB1AA5	M25	15.0	15.0	19.3	19.3	23.4	17.0	26.4	53.1	41.0	45.1	PVC10	0.221
CMPTMC100NB1AA5	M32	15.0	19.8	24.6	24.6	29.2	22.0	32.3	56.9	50.0	55.0	PVC13	0.306
CMPTMC125NB1AA5	M40	15.0	27.4	31.2	31.2	35.3	29.5	38.1	56.4	55.0	60.5	PVC15	0.448
CMPTMC150NB1AA5	M50	15.0	33.5	37.1	37.1	41.1	35.6	44.2	58.7	60.0	66.0	PVC18	0.567
CMPTMC200SNB1AA5	M50	15.0	38.3	42.6	42.7	47.0	40.1	50.0	64.0	70.0	77.0	PVC21	0.751
CMPTMC200NB1AA5	M63	15.0	45.0	49.0	49.0	53.1	47.2	56.1	63.2	75.0	82.5	PVC23	1.036
CMPTMC250SNB1AA5	M63	15.0	52.1	54.9	54.9	58.9	52.8	62.0	69.3	80.0	88.0	PVC25	1.016
CMPTMC250NB1AA5	M75	15.0	57.1	61.2	61.2	64.8	59.2	68.1	72.1	85.0	93.5	PVC27	1.787
CMPTMC300NB1AA5	M90	15.0	64.5	70.6	70.6	75.4	66.5	79.5	98.3	110.0	121.0	PVC31	2.091
CMPTMC350NB1AA5	M100	24.1	73.9	83.6	83.6	88.6	75.9	97.3	117.6	133.4	146.7	LSF34	3.044
CMPTMC400NB1AA5	M115	24.1	73.9	83.6	83.6	88.6	75.9	97.3	117.6	133.4	146.7	LSF34	3.132

Dimensions are displayed in millimetres unless otherwise stated

A2

A2 SINGLE SEAL INDUSTRIAL CABLE GLAND



FOR ALL TYPES OF UNAMOURED CABLE

- 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)
- Entry thread sealing washer and locknut included as standard

IP66 IP67 IP68

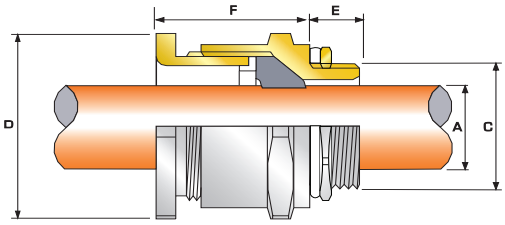
DELUGE PROTECTED

+130˚C ↑ -60˚C

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121: Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class 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	Electroless Nickel Plated Brass
SEAL MATERIAL	CMP Thermoset Rubber
CABLE TYPE	Unarmoured & Braided (Braid 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	
CSA CERTIFICATE	1211841
CSA CODE OF PROTECTION	Enclosure Type 4X
GOST R CERTIFICATE	POCC GB.HA46.H00140
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			
16	A2	1RA5/A	M16	10.0	3.2	8.7	22.0	24.2	26.9	PVC04	0.070
20S16	A2	1RA5/A	M20	10.0	3.2	8.7	24.0	26.4	26.0	PVC04	0.070
20S	A2	1RA5/A	M20	10.0	6.1	11.7	24.0	26.4	26.0	PVC04	0.060
20	A2	1RA5/A	M20	10.0	6.5	14.0	27.0	29.7	27.7	PVC05	0.070
25	A2	1RA5/A	M25	10.0	11.1	20.0	36.0	39.6	35.5	PVC09	0.130
32	A2	1RA5/A	M32	10.0	17.0	26.3	41.0	45.1	35.1	PVC10	0.150
40	A2	1RA5/A	M40	15.0	23.5	32.2	50.0	55.0	35.1	PVC13	0.200
50S	A2	1RA5/A	M50	15.0	31.0	38.2	55.0	60.5	33.0	PVC15	0.260
50	A2	1RA5/A	M50	15.0	35.6	44.0	60.0	66.0	37.3	PVC18	0.270
63S	A2	1RA5/A	M63	15.0	41.5	49.9	70.5	77.6	33.5	PVC21	0.430
63	A2	1RA5/A	M63	15.0	47.2	55.9	75.0	82.5	36.2	PVC23	0460
75S	A2	1RA5/A	M75	15.0	54.0	61.9	84.0	92.4	34.1	PVC24	0.520
75	A2	1RA5/A	M75	15.0	61.1	67.9	84.0	92.4	40.9	PVC24	0.500
90	A2	1RA5/A	M90	24.0	66.6	79.9	108.0	118.8	60.3	PVC31	1.600
100	A2	1RA5/A	M100	24.0	76.0	91.0	123.0	135.3	57.2	LSF33	1.780
115	A2	1RA5/A	M115	24.0	86.0	97.9	133.4	146.7	67.3	LSF34	2.670
130	A2	1RA5/A	M130	24.0	97.0	114.9	152.4	164.6	74.7	LSF35	3.800

Dimensions are displayed in millimetres unless otherwise stated

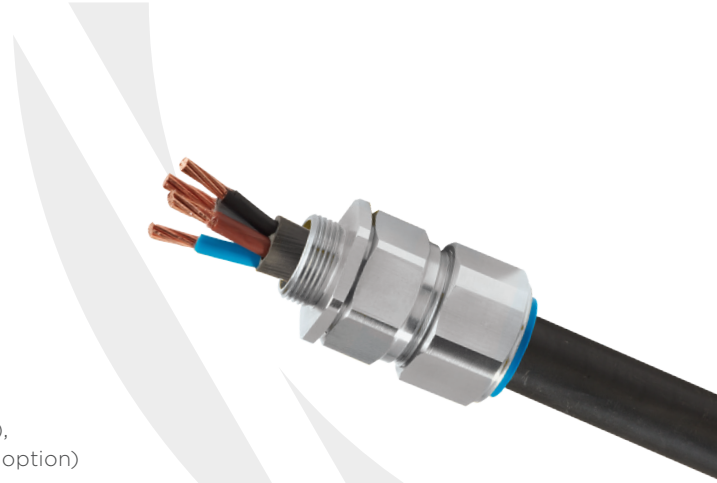
20MM LONG THREAD OPTION

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	1RA5/A20L0E	M20	20.0	3.2	8.7	24.0	26.4	26.0	PVC04	0.072
20S	A2	1RA5/A20L0E	M20	20.0	6.1	11.7	24.0	26.4	26.0	PVC04	0.062
20	A2	1RA5/A20L0E	M20	20.0	6.5	14.0	27.0	29.7	27.7	PVC05	0.072
25	A2	1RA5/A20L0E	M25	20.0	11.1	20.0	36.0	39.6	35.5	PVC09	0.132
32	A2	1RA5/A20L0E	M32	20.0	17.0	26.3	41.0	45.1	35.1	PVC10	0.152
40	A2	1RA5/A20L0E	M40	20.0	23.5	32.2	50.0	55.0	35.1	PVC13	0.202
50S	A2	1RA5/A20L0E	M50	20.0	31.0	38.2	55.0	60.5	33.0	PVC15	0.262
50	A2	1RA5/A20L0E	M50	20.0	35.6	44.0	60.0	66.0	37.3	PVC18	0.272
63S	A2	1RA5/A20L0E	M63	20.0	41.5	49.9	70.5	77.6	33.5	PVC21	0.432
63	A2	1RA5/A20L0E	M63	20.0	47.2	55.9	75.0	82.5	36.2	PVC23	0462
75S	A2	1RA5/A20L0E	M75	20.0	54.0	61.9	84.0	92.4	34.1	PVC24	0.522
75	A2	1RA5/A20L0E	M75	20.0	61.1	67.9	84.0	92.4	40.9	PVC24	0.502

Dimensions are displayed in millimetres unless otherwise stated

CX

CX SINGLE SEAL INDUSTRIAL CABLE GLAND



FOR BRAID, PLIABLE WIRE & STEEL TAPE ARMOURED CABLES

- Standard material nickel plated brass
- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct and 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

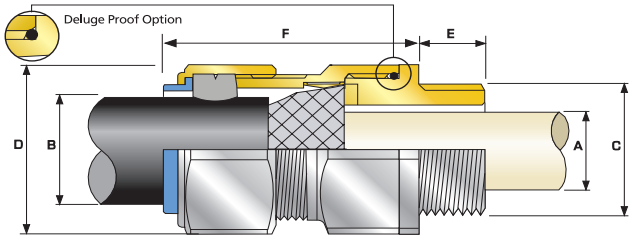
IP66 IP67 IP68

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 A
INGRESS PROTECTION RATING**	IP66 as standard (IP67, IP68*** available upon request)
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass
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	CMP Load Retention Seal
SEALING AREA(S)	Cable Outer Sheath
ARMOUR CLAMPING	Detachable Armour 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	
GOST R CERTIFICATE	POCC GB.HA46.H00140
MARINE APPROVALS	LRS: 01/00171 , ABS: 16-LD1472056-PDA

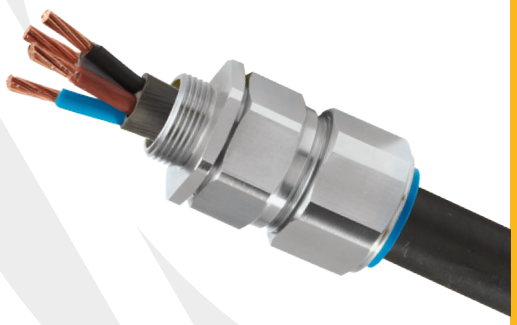


COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		CABLE BEDDING DIAMETER 'A'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	CX	1RA5	M20	10.0	8.7	6.1	13.1	0.3	1.0	24.0	26.4	48.0	PVC04	0.100
20S	CX	1RA5	M20	10.0	11.7	9.5	15.9	0.3	1.0	24.0	26.4	48.0	PVC04	0.100
20	CX	1RA5	M20	10.0	14.0	12.5	20.9	0.4	1.0	30.5	33.6	48.0	PVC06	0.147
25S	CX	1RA5	M25	10.0	20.0	14.0	22.0	0.4	1.2	37.5	41.3	56.0	PVC09	0.224
25	CX	1RA5	M25	10.0	20.0	18.2	26.2	0.4	1.2	37.5	41.3	56.0	PVC09	0.221
32	CX	1RA5	M32	10.0	26.3	23.7	33.9	0.4	1.2	46.0	50.6	54.0	PVC11	0.306
40	CX	1RA5	M40	15.0	32.2	27.9	40.4	0.4	1.6	55.0	60.5	58.0	PVC15	0.448
50S	CX	1RA5	M50	15.0	38.2	35.2	46.7	0.4	1.6	60.0	66.0	61.0	PVC18	0.567
50	CX	1RA5	M50	15.0	44.1	40.4	53.0	0.6	1.6	70.1	77.1	60.0	PVC21	0.751
63S	CX	1RA5	M63	15.0	50.0	45.6	59.4	0.6	1.6	75.0	82.5	74.0	PVC23	1.036
63	CX	1RA5	M63	15.0	56.0	54.6	65.8	0.6	1.6	80.0	88.0	71.0	PVC25	1.016
75S	CX	1RA5	M75	15.0	62.0	59.0	72.0	0.6	1.6	90.0	99.0	86.0	PVC28	1.787
75	CX	1RA5	M75	15.0	68.0	66.7	78.4	0.6	1.6	100.0	110.0	82.0	PVC30	2.091
90	CX	1RA5	M90	24.0	78.6	76.2	90.3	0.8	1.6	114.3	125.7	95.0	PVC32	3.044
100	CX	1RA5	M100	24.0	91.0	86.1	101.4	0.8	1.6	123.0	135.3	95.0	LSF33	3.132
115	CX	1RA5	M115	24.0	98.0	101.5	110.2	0.8	1.6	133.4	146.7	107.5	LSF34	4.476
130	CX	1RA5	M130	24.0	115.0	110.2	123.2	0.8	1.6	152.4	167.6	110.0	LSF35	5.761

Dimensions are displayed in millimetres unless otherwise stated

CWD

CWD SINGLE SEAL, DELUGE PROTECTED INDUSTRIAL CABLE GLAND



FOR ALL TYPES OF STEEL & ALUMINIUM WIRED ARMOURED CABLES

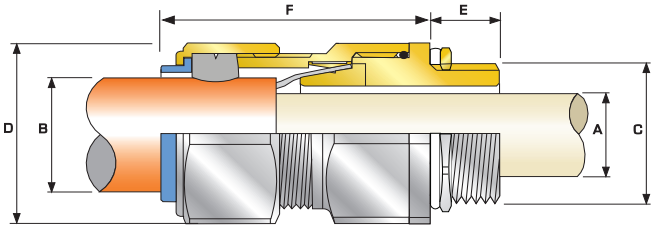
- High quality durable materials
- Robust, heavy duty design
- Metal-to-metal armour clamping
- Direct and remote installation
- Controlled outer load retention seal
- Unique OSTG prevents over tightening
- -60˚C to +130˚C (standard), -20˚C to +200˚C (ThermIn option)
- Deluge protected
- Superior EMC performance
- CWDVAR option available for copper tape screened SWA VSD cables
- Entry thread sealing washer and heavy duty locknut included as standard

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
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring
SEALING TECHNIQUE	CMP Load Retention Seal
SEALING AREA(S)	Cable Outer Sheath
CABLE GLAND MATERIAL	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.
*** 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	POCC GB.HA46.H00140
MARINE APPROVALS	LRS: 01/00171, ABS: 16-LD1472056-PDA



COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS		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'	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	CWD	1RA5/A	M20	20.0	8.7	6.1	13.1	0.8	1.25	24.0	26.4	48.0	PVC04	0.100
20S	CWD	1RA5/A	M20	20.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	PVC04	0.140
20	CWD	1RA5/A	M20	20.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	PVC06	0.180
25S	CWD	1RA5/A	M25	20.0	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	PVC09	0.257
25	CWD	1RA5/A	M25	20.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	PVC09	0.257
32	CWD	1RA5/A	M32	20.0	26.0	23.7	33.9	1.6	2.0	46.0	50.6	54.0	PVC11	0.376
40	CWD	1RA5/A	M40	20.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	PVC15	0.630
50S	CWD	1RA5/A	M50	20.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	PVC18	0.757
50	CWD	1RA5/A	M50	20.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	PVC21	0.862
63S	CWD	1RA5/A	M63	20.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	PVC23	1.390
63	CWD	1RA5/A	M63	20.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	PVC25	1.360
75S	CWD	1RA5/A	M75	20.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	PVC28	2.307
75	CWD	1RA5/A	M75	20.0	68.0	66.7	78.4	2.5	3.0	100.0	110.0	82.0	PVC30	2.909
90	CWD	1RA5/A	M90	24.0	78.6	76.2	90.3	3.15	4.0	114.3	125.7	95.0	PVC32	3.858
100	CWD	1RA5/A	M100	24.0	91.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	LSF33	4.958
115	CWD	1RA5/A	M115	24.0	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	LSF34	5.058
130	CWD	1RA5/A	M130	24.0	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	LSF35	6.158

Dimensions are displayed in millimetres unless otherwise stated

A2F100 Simtars

GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED CABLES

- Complies 100% with IEC 60079-0 cable retention requirements
- No 'special conditions' for safe use
- Simtars certified for QLD Group I mining applications
- Displacement type flameproof seal
- Deluge protected
- -60˚C to +130˚C
- Globally marked, IECEx and ATEX

IP66 IP67 IP68

DELUGE PROTECTED

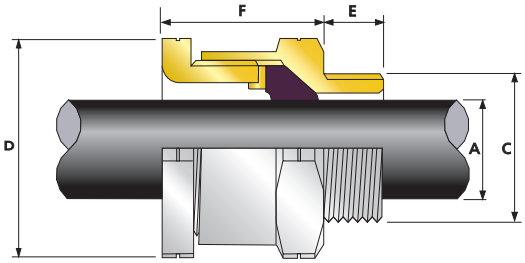
+130˚C ↑ -60˚C

Ex db Ex eb Ex ta ExnR

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class 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 and Braided (Braid terminated inside enclosure)
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Outer Sheath

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML 18ATEX1307 CML 18ATEX4311	IECEx CERTIFICATE	IECEx CML 18.0172 IECEx SIM 17.0010
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 ta IIIC Da, Ex nR IIC Gc, 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

* 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.



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

Dimensions are displayed in millimetres unless otherwise stated

A2F100HC Simtars

GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED CABLES HOUSED IN FRAS HOSE

- Complies 100% with IEC 60079-0 cable retention requirements
- No 'special conditions' for safe use
- Simatars certified for QLD Group I mining applications
- External hose connection facility
- Approved for Group I and Group II
- High quality durable materials
- Wide sealing range for each cable gland size
- Displacement type flameproof seal
- -60˚C to +130˚C
- Globally marked, IECEx and ATEX

IP66 IP67 IP68

DELUGE PROTECTED

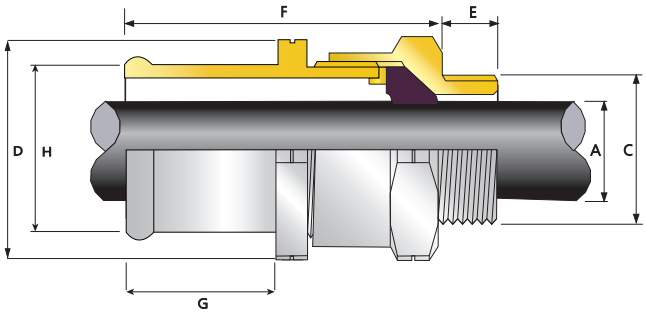
+130˚C ↑ -60˚C

Ex db Ex eb Ex ta ExnR

TECHNICAL DATA	
DESIGN SPECIFICATION	BS 6121:Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class 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

GLOBAL PRODUCT CERTIFICATION			
ATEX CERTIFICATE	CML 18ATEX1307 CML 18ATEX4311	IECEx CERTIFICATE	IECEx CML 18.0172 IECEx SIM 17.0010
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 ta IIIC Da, Ex nR IIC Gc, 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

* 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.



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 (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MIN	MAX		MAX	MAX			
20S16	A2F100HC13	1RA5	M20	15.0	3.2	8.0	13.0	24.0	26.4	30.4	16.0	0.122
20S16	A2F100HC16	1RA5	M20	15.0	3.2	8.0	16.0	24.0	26.4	46.4	16.0	0.131
20S	A2F100HC16	1RA5	M20	15.0	6.5	11.2	16.0	24.0	26.4	47.9	16.0	0.113
20	A2F100HC16	1RA5	M20	15.0	7.0	13.5	16.0	27.0	29.7	55.8	20.0	0.140
20	A2F100HC19	1RA5	M20	15.0	7.0	13.5	19.0	27.0	29.7	55.8	20.0	0.140
20L	A2F100HC19	1RA5	M20	15.0	8.7	14.0	19.0	27.0	29.7	54.3	20.0	0.138
25	A2F100HC19	1RA5	M25	15.0	11.5	14.0	19.0	36.0	39.6	40.4	20.0	0.241
25	A2F100HC25	1RA5	M25	15.0	11.5	19.5	25.0	36.0	39.6	67.4	27.0	0.240
25L	A2F100HC25	1RA5	M25	15.0	14.0	20.0	25.0	36.0	39.6	66.9	27.0	0.238
32	A2F100HC25	1RA5	M32	15.0	19.0	20.0	25.0	41.0	45.1	38.5	27.0	0.288
32	A2F100HC32	1RA5	M32	15.0	19.0	25.5	32.0	41.0	45.1	71.5	33.0	0.299
32L	A2F100HC32	1RA5	M32	15.0	20.2	26.3	32.0	41.0	45.1	68.5	33.0	0.295
40	A2F100HC38	1RA5	M40	15.0	25.0	32.2	38.0	50.0	55.0	79.8	41.0	0.430
50S	A2F100HC51	1RA5	M50	15.0	31.0	38.2	51.0	55.0	60.5	95.4	54.0	0.838
50	A2F100HC51	1RA5	M50	15.0	35.6	44.0	51.0	60.0	66.0	99.8	54.0	0.674
63S	A2F100HC63	1RA5	M63	15.0	41.5	49.9	63.0	70.5	77.6	113.3	70.0	1.352
63	A2F100HC63	1RA5	M63	15.0	48.2	54.9	63.0	75.0	82.5	113.6	70.0	1.032
75S	A2F100HC76	1RA5	M75	15.0	54.0	61.9	76.0	84.0	92.4	136.9	91.5	2.101
75	A2F100HC76	1RA5	M75	15.0	61.1	67.9	76.0	84.0	92.4	140.5	91.5	1.492

Note: Dimensions across hose connections may vary

Dimensions are displayed in millimetres unless otherwise stated

SS2K

SS2K DOUBLE SEAL, GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED CABLE

- 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), -20˚C to +200˚C (ThermEx option)
- Long thread option available
- Globally marked, IECEx, ATEX and CSA

IP66 IP67 IP68

DELUGE PROTECTED

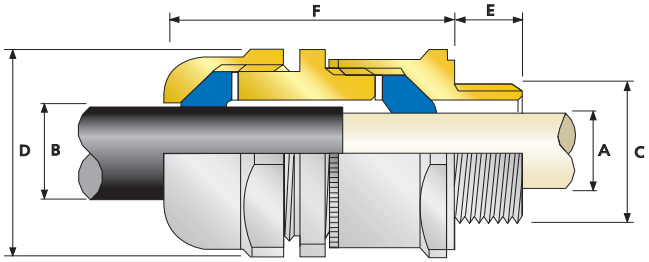
+130˚C ↑ -60˚C

Ex db Ex eb Ex ta ExnR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121: Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = Class 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 and Braided (Braid terminated inside enclosure)
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
SEALING TECHNIQUE	CMP Displacement Seal
SEALING AREA(S)	Cable Inner Bedding & Outer Cable Sheath, Double Seal on Cable Outer Sheath
CABLE GLAND MATERIAL	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.
*** 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 18ATEX1322X CML 18ATEX4314X	IECEx CERTIFICATE	IECEx CML 18.0178X
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		
CODE OF PROTECTION	Ex d IIC, Ex e II, Ex nR II, Enclosure Type 4x		
COMPLIANCE STANDARDS	CSA C22.2 No 0,0.4, 94, 174; CSA C22.2 No 60079-0,1,7, 15		
UkrSEPRO CERTIFICATE	СЦ 19.0371X	EAC CERTIFICATE	TC RU C-GB.AA87.B.00487
NEPSI CERTIFICATE	GYJ18.1250X	INMETRO APPROVAL	TÜV 12.0879X
CCOE / PESO (INDIA) CERTIFICATE	P444949	RETIE APPROVAL NUMBER	03866
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180 A1 BV		



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	1RA5	M20	15.0	3.2	8.6	3.2	8.6	24.0	26.4	49.0	PVC04	0.140
20S	SS2K	1RA5	M20	15.0	6.1	11.7	6.1	11.7	24.0	26.4	49.0	PVC04	0.130
20	SS2K	1RA5	M20	15.0	6.5	14.0	6.5	14.0	27.0	29.7	54.0	PVC05	0.160
25	SS2K	1RA5	M25	15.0	11.1	20.0	11.1	20.0	36.0	39.6	66.0	PVC09	0.300
32	SS2K	1RA5	M32	15.0	17.0	26.3	17.0	26.3	41.0	45.1	67.0	PVC10	0.350
40	SS2K	1RA5	M40	15.0	23.5	32.1	23.5	32.1	50.0	55.0	70.0	PVC13	0.500
50S	SS2K	1RA5	M50	15.0	31.0	38.2	31.0	38.2	55.0	60.5	65.0	PVC15	0.560
50	SS2K	1RA5	M50	15.0	35.6	44.0	35.6	44.0	60.0	66.0	70.0	PVC18	0.590
63S	SS2K	1RA5	M63	15.0	41.5	49.9	41.5	49.9	70.5	77.6	70.0	PVC21	0.890
63	SS2K	1RA5	M63	15.0	47.2	55.9	47.2	55.9	75.0	82.5	71.0	PVC23	0.850
75S	SS2K	1RA5	M75	15.0	54.0	61.9	54.0	61.9	80.0	88.0	70.0	PVC26	1.020
75	SS2K	1RA5	M75	15.0	61.1	67.9	61.1	67.9	84.0	92.4	75.0	PVC26	0.990
90	SS2K	1RA5	M90	24.0	66.6	79.4	66.6	79.4	108.0	118.8	113.0	PVC31	2.990
100	SS2K	1RA5	M100	24.0	76.0	90.9	76.0	90.9	123.0	134.2	106.0	LSF33	3.390
115	SS2K	1RA5	M115	24.0	86.0	97.9	86.0	97.9	133.4	146.7	128.0	LSF34	5.320
130	SS2K	1RA5	M130	24.0	97.0	114.9	97.0	114.9	152.4	167.6	129.0	LSF35	6.350

Dimensions are displayed in millimetres unless otherwise stated

T3CDS TRITON CDS

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), -20˚C to +200˚C (ThermEx option)
- Globally marked, UL, cCSAus, IECEx and ATEX
- T3CDSVAR Option available for copper tape screened SWA VSD cables

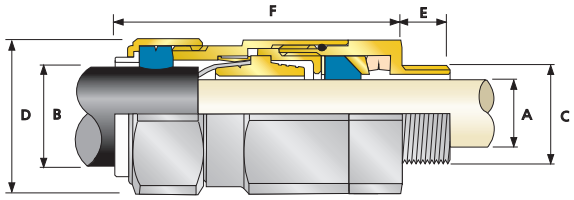
IP66 IP67 IP68 DELUGE PROTECTED EMC +130˚C -60˚C

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 = 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 GLAND MATERIAL	Electroless Nickel Plated Brass
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 & AnyWay Universal Clamping Ring
SEALING TECHNIQUE	CMP Inner Compensating Displacement Seal (CDS) and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & 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	CML 18ATEX1326X CML 18ATEX4318X	IECEx CERTIFICATE	IECEx CML 18.0183X
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	СЦ 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
NEPSI CERTIFICATE	GYJ18.1253X	INMETRO APPROVAL	TUV 11.0374X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180 A1 BV		

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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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	1RA5	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

Dimensions are displayed in millimetres unless otherwise stated

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, IECEx, ATEX and cCSAus
- Superior EMC performance
- Long thread option available

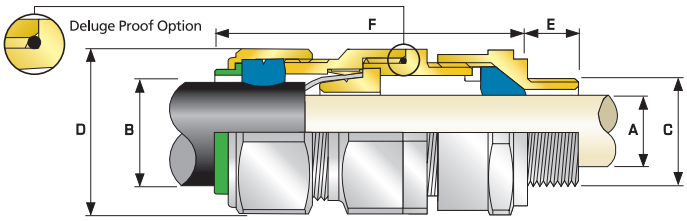
IP66 IP67 IP68 EMC +130˚C ↑ -60˚C

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 = Class D
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules)
ELECTRICAL CLASSIFICATION*	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	Electroless Nickel Plated Brass
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Single Wire Armour (SWA), Aluminium Wire Armour (AWA)
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring
SEALING TECHNIQUE	CMP Inner Displacement Seal and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & 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	CML 18ATEX1324X CML 18ATEX4316X	IECEx CERTIFICATE	IECEx CML 18.0181X
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	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G; Class III, Div 1 and Div 2; Enclosure Type 3, 4 and 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, Div 1 and Div 2; Enclosure Type 4X IP66; Ex d IIC, Ex e IIC, 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 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-GA4B0-0257X	CCOE / PESO (INDIA) CERTIFICATE	P444949
NEPSI CERTIFICATE	GYJ18.1251X	INMETRO APPROVAL	TÜV 12.0618X
RETIE APPROVAL NUMBER	03866		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS:20-LD1948801-PDA, BV: 43180 A1 BV		



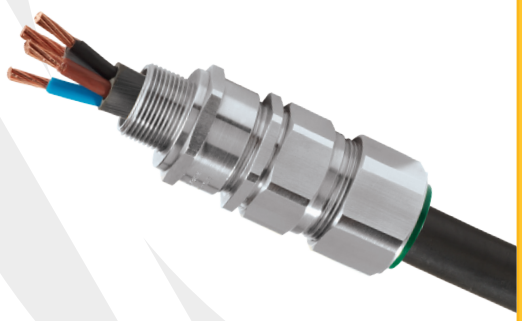
COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
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	3.15	4.0	152.4	167.6	174.0	LSF35	8.34

Dimensions are displayed in millimetres unless otherwise stated

E1FX

E1FX GLOBALLY 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
- Unique OSTG prevents overtightening
- -60˚C to +130˚C
- Globally marked, IECEx, ATEX and cCSAus
- Superior EMC performance
- Long thread option available

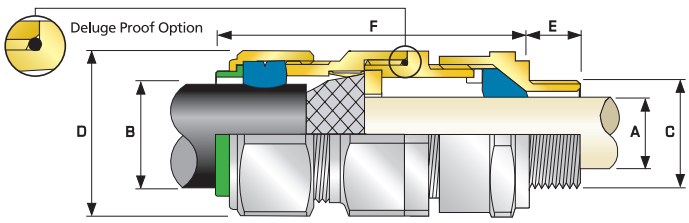
IP66 IP67 IP68 EMC +130˚C -60˚C

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 = Class B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass only
ELECTRICAL CLASSIFICATION*	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	Electroless Nickel Plated Brass
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 & Jacketed
ARMOUR CLAMPING	Detachable Armour Cone & AnyWay Universal Clamping Ring
SEALING TECHNIQUE	CMP Inner Displacement Seal and Outer Load Retention Seal
SEALING AREA(S)	Cable Inner Bedding & 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	CML 18ATEX1324X CML 18ATEX4316X	IECEx CERTIFICATE	IECEx CML 18.0181X
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	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G; Class III, Div 1 and Div 2; Enclosure Type 3, 4 and 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, Div 1 and Div 2; Enclosure Type 4X; IP66; Ex d IIC, Ex e IIC, 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 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-GA4B0-0257X	CCOE / PESO (INDIA) CERTIFICATE	P444949
NEPSI CERTIFICATE	GYJ18.1251X	INMETRO APPROVAL	TÜV 12.0618X
RETIE APPROVAL NUMBER	03866		
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180 A1 BV		

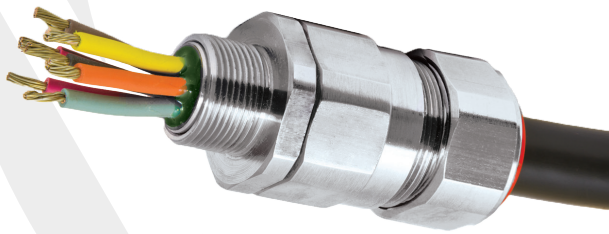


COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		CABLE BEDDING DIAMETER 'A'		OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE GROOVED CONE (X)		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	E1FX	1RA5	M20	15.0	3.1	8.6	6.1	13.1	0.3	1.0	24.0	26.4	72.5	PVC04	0.16
20S	E1FX	1RA5	M20	15.0	6.1	11.6	9.5	15.9	0.3	1.0	24.0	26.4	70.0	PVC04	0.15
20	E1FX	1RA5	M20	15.0	6.5	13.9	12.5	20.9	0.4	1.0	30.5	33.6	73.0	PVC06	0.21
25S	E1FX	1RA5	M25	15.0	11.1	19.9	14.0	22.0	0.4	1.2	37.5	41.3	89.0	PVC09	0.33
25	E1FX	1RA5	M25	15.0	11.1	19.9	18.2	26.2	0.4	1.2	37.5	41.3	89.0	PVC09	0.33
32	E1FX	1RA5	M32	15.0	17.0	26.2	23.7	33.9	0.4	1.2	46.0	50.6	86.0	PVC11	0.43
40	E1FX	1RA5	M40	15.0	22.0	32.1	27.9	40.4	0.4	1.6	55.0	60.5	90.0	PVC15	0.62
50S	E1FX	1RA5	M50	15.0	29.5	38.1	35.2	46.7	0.4	1.6	60.0	66.0	91.0	PVC18	0.75
50	E1FX	1RA5	M50	15.0	35.6	44.0	40.4	53.0	0.6	1.6	70.1	77.1	95.0	PVC21	0.95
63S	E1FX	1RA5	M63	15.0	40.1	49.9	45.6	59.4	0.6	1.6	75.0	82.5	102.0	PVC23	1.34
63	E1FX	1RA5	M63	15.0	47.2	55.9	54.6	65.8	0.6	1.6	80.0	88.0	104.0	PVC25	1.34
75S	E1FX	1RA5	M75	15.0	52.8	61.9	59.0	72.0	0.6	1.6	90.0	99.0	115.0	PVC28	2.11
75	E1FX	1RA5	M75	15.0	59.1	67.9	66.7	78.4	0.6	1.6	100.0	110.0	117.0	PVC30	2.42
90	E1FX	1RA5	M90	24.0	66.6	78.6	76.2	90.3	0.8	1.6	114.3	125.4	147.0	PVC32	4.21
100	E1FX	1RA5	M100	24.0	76.0	90.9	86.1	101.4	0.8	1.6	123.0	135.3	140.0	LSF33	4.45
115	E1FX	1RA5	M115	24.0	86.0	97.9	101.5	110.2	0.8	1.6	133.4	146.7	162.0	LSF34	6.19
130	E1FX	1RA5	M130	24.0	97.0	114.9	110.2	123.2	0.8	1.6	152.4	167.6	174.0	LSF35	8.34

Dimensions are displayed in millimetres unless otherwise stated

PX2KREX

RAPID Ex



PX2KREX GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE RAPIDEX BARRIER CABLE GLAND

FOR ALL TYPES OF 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, cCSAus, 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

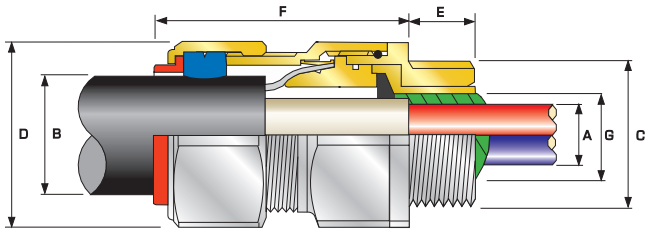
Ex db Ex eb Ex ta Ex nR

TECHNICAL CLASSIFICATION	
DESIGN SPECIFICATION	BS 6121: Part 1:1989, IEC 62444, EN 62444
MECHANICAL CLASSIFICATION*	Impact = Level 8, Cable Anchorage = 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	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	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%) 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. ***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	CML 18ATEX1325X CML 18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
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	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 Resistant 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 Resistant II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
COMPLIANCE STANDARDS	CSA-C22.2 No 0,18,25,30,94,174, CSA C22.2 No 60079-0,1,7,15,31; CAN/CSA-E61241-1-1 Part 11; ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4; UL60079-0,1,7,15,31		
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	UkrSEPRO CERTIFICATE	СЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
NEPSI CERTIFICATE	GYJ18.1252X	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180/A1 BV		

* Per ATEX CML 18ATEX1325X and IECEx CML 18.0182X, aluminium alloys are not permitted in Group I mining applications.** Where the cable is permitted by code (NEC and/or CEC)

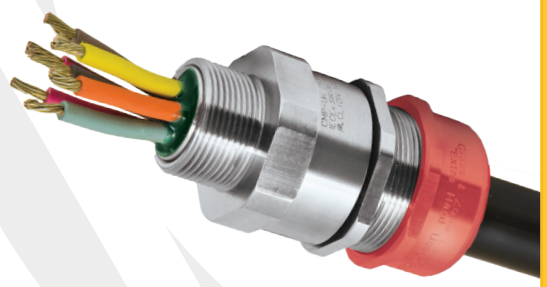


COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		NUMBER OF CORES	DIAMETER OVER CONDUCTORS 'A'	CABLE BEDDING DIAMETER 'G'	OVERALL CABLE DIAMETER 'B'		ARMOUR RANGE				ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
										GROOVED CONE (X)		STEPPED CONE (W)						
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MAX	MAX	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	PX2KREX	1RA5	M20	15.0	21	11.7	11.7	6.1	13.1	0.3	1.0	0.8	1.25	30.5	33.6	60.2	PVC06	0.24
20S	PX2KREX	1RA5	M20	15.0	21	11.7	11.7	9.5	15.9	0.3	1.0	0.8	1.25	30.5	33.6	60.2	PVC06	0.23
20	PX2KREX	1RA5	M20	15.0	21	12.6	12.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	60.36	PVC06	0.24
25S	PX2KREX	1RA5	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	1RA5	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	1RA5	M32	15.0	50	23.6	23.9	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.5	75.0	PVC11	0.57
40	PX2KREX	1RA5	M40	15.0	59	30.0	30.3	27.9	40.4	0.4	1.6	2.0	2.0	55.0	60.5	75.0	PVC15	0.80
50S	PX2KREX	1RA5	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	1RA5	M50	15.0	115	41.0	41.3	40.4	53.0	0.6	1.6	2.0	2.5	70.0	77.5	77.0	PVC21	1.19
63S	PX2KREX	1RA5	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	1RA5	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	1RA5	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	1RA5	M75	15.0	140	64.3	64.6	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	88.3	PVC30	2.54
90	PX2KREX	1RA5	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	1RA5	M100	20.0	200	83.6	83.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	114.0	LSF33	4.81

Dimensions are displayed in millimetres unless otherwise stated

PXSS2KREX

RAPID Ex



PXSS2KREX GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE RAPIDEX BARRIER CABLE GLAND

FOR ALL TYPES OF UNARMOURED CABLES

- RapidEx liquid pour sealing system reduces installation time
- Direct and remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- -60°C to +85°C
- Globally marked, cCSAus, 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 IP67 IP68

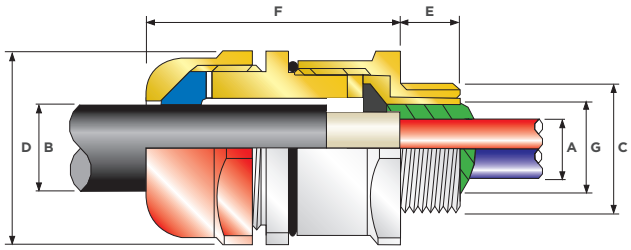
DELUGE PROTECTED

+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 = Class 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***
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 & Cable Outer Sheath
CABLE GLAND MATERIAL	Electroless Nickel Plated Brass, Copper Free (<0.4%) 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. ***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	CML 18ATEX1325X CML 18ATEX4317X	IECEx CERTIFICATE	IECEx CML 18.0182X
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 d IIC Gb, Ex e IIC Gb, Ex nR IIC, Ex ta IIIC Da
COMPLIANCE STANDARDS	EN 60079-0,1,7,15,31	COMPLIANCE STANDARDS	IEC 60079-0,1,7,15,31
cCSA CERTIFICATE	2288626		
cCSA CODE OF PROTECTION**	Class I, Div 1 and Div 2, Groups A, B, C, and D; Class II, Div 1 and DIv 2, Groups E, F, and G; Class III, Div 1 and Div 2; Enclosure Type 4X; Oil Resistant II: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da		
CSAus CODE OF PROTECTION	Class I, Div 1 and Div 2, Groups A, B, C, and D; Class II, Div 1 and Div 2, Groups E, F, and G; Class III, Div 1 and Div 2; Enclosure Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, Ex e IIC Gb; Class I, Zone 2, AEx nR IIC Gc; Class I, Zone 20, AEx ta IIIC Da		
COMPLIANCE STANDARDS	CSA-C22.2 No 0,18,25,30,174,94, CSA C22.2 No 60079-0,1,7,15,31; CSA C22.2 No 61241-1-1 Part 11; ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079		
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	UkrSEPRO CERTIFICATE	СЦ 19.0371X
RETIE APPROVAL NUMBER	03866	CCOE / PESO (INDIA) CERTIFICATE	P444949
NEPSI CERTIFICATE	GYJ18.1252X	INMETRO APPROVAL	TÜV 12.2073X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180 A1 BV		

* Per ATEX CML 18ATEX1325X and IECEx CML 18.0182X, 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'		ACROSS FLATS 'D'	ACROSS CORNERS 'D'	PROTRUSION LENGTH 'F'	SHROUD	CABLE GLAND WEIGHT (kg)
SIZE	TYPE	ORDERING SUFFIX	METRIC	THREAD LENGTH 'E'	MAX	MAX	MAX	MIN	MAX	MAX	MAX			
20S16	PXSS2KREX	1RA5	M20	15.0	21	8.6	8.6	3.1	8.6	30.0	33.0	53.1	PVC06	0.20
20S	PXSS2KREX	1RA5	M20	15.0	21	11.7	11.7	6.1	11.7	30.0	33.0	53.1	PVC06	0.20
20	PXSS2KREX	1RA5	M20	15.0	21	12.6	12.9	6.5	14.0	30.0	33.0	54.2	PVC06	0.20
20L	PXSS2KREX	1RA5	M20	15.0	21	12.6	12.9	10.0	15.9	30.0	33.0	54.2	PVC06	0.20
25	PXSS2KREX	1RA5	M25	15.0	30	17.5	17.9	11.1	20.0	36.0	39.6	60.0	PVC09	0.33
32	PXSS2KREX	1RA5	M32	15.0	50	23.6	23.9	17.0	26.3	41.0	45.1	61.1	PVC10	0.59
32L	PXSS2KREX	1RA5	M32	15.0	50	23.6	23.9	20.0	27.4	41.0	45.1	61.1	PVC10	0.59
40	PXSS2KREX	1RA5	M40	15.0	59	30.0	30.3	22.0	32.1	50.0	55.0	62.4	PVC13	0.56
50S	PXSS2KREX	1RA5	M50	15.0	89	36.6	36.9	29.5	38.2	55.0	60.5	65.2	PVC15	0.66
50	PXSS2KREX	1RA5	M50	15.0	115	41.0	41.3	35.6	44.0	60.0	66.0	67.6	PVC18	0.73
63S	PXSS2KREX	1RA5	M63	15.0	115	47.9	48.4	40.1	49.9	70.0	77.0	71.1	PVC21	1.07
63	PXSS2KREX	1RA5	M63	15.0	115	53.7	54.0	47.2	55.9	75.0	82.5	70.4	PVC23	1.06
75S	PXSS2KREX	1RA5	M75	15.0	140	59.9	60.2	52.8	61.9	80.0	88.0	75.3	PVC25	1.30
75	PXSS2KREX	1RA5	M75	15.0	140	64.3	64.2	59.1	67.9	85.0	93.5	74.9	PVC27	1.30
90	PXSS2KREX	1RA5	M90	20.0	140	75.3	75.6	66.6	79.4	108.0	118.8	94.8	PVC31	3.02
100	PXSS2KREX	1RA5	M100	20.0	200	85.6	85.9	76.0	90.9	123.0	135.3	86.3	LSF33	4.00

Dimensions are displayed in millimetres unless otherwise stated

A2F STAINLESS STEEL

A2F STAINLESS STEEL GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF UNARMOURED CABLE

- 316L stainless steel
- Displacement type flameproof seal
- Deluge protected
- -60˚C to +130˚C (standard), -20˚C to +200˚C (ThermEx option)
- Globally marked, IECEx, ATEX and CSA

IP66 IP67 IP68

DELUGE PROTECTED

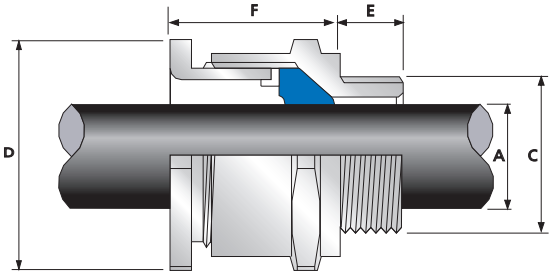
+130˚C ↑ -60˚C

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 = Class B
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules)
INGRESS PROTECTION RATING**	IP66, IP67 & IP68***
DELUGE PROTECTION COMPLIANCE	DTS01 : 91
CABLE GLAND MATERIAL	316L Stainless Steel
SEAL MATERIAL	CMP SOLO LSF Halogen Free Thermoset Elastomer
CABLE TYPE	Unarmoured & Braided (Braid 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
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 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	CSA C22.2 No 0,0.4,94,174; CSA C22.2 No 60079-0,1,7,15		
EAC CERTIFICATE	TC RU C-GB.AA87.B.00487	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
NEPSI CERTIFICATE	GYJ18.1249X	INMETRO APPROVAL	TÜV 12.0619X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180 A1 BV		



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	A2F	1RA4	M16	15.0	3.2	8.7	24.0	26.4	29.9	PVC04	0.06
20S16	A2F	1RA4	M20	15.0	3.2	8.7	24.0	26.4	26.0	PVC04	0.07
20S	A2F	1RA4	M20	15.0	6.1	11.7	24.0	26.4	26.0	PVC04	0.06
20	A2F	1RA4	M20	15.0	6.5	14.0	27.0	29.7	27.7	PVC05	0.07
25	A2F	1RA4	M25	15.0	11.1	20.0	36.0	39.6	35.5	PVC09	0.13
32	A2F	1RA4	M32	15.0	17.0	26.3	41.0	45.1	35.1	PVC10	0.15
40	A2F	1RA4	M40	15.0	23.5	32.2	50.0	55.0	35.1	PVC13	0.20
50S	A2F	1RA4	M50	15.0	31.0	38.2	55.0	60.5	33.0	PVC15	0.26
50	A2F	1RA4	M50	15.0	35.6	44.0	60.0	66.0	37.3	PVC18	0.27
63S	A2F	1RA4	M63	15.0	41.5	49.9	70.5	77.6	33.5	PVC21	0.43
63	A2F	1RA4	M63	15.0	47.2	55.9	75.0	82.5	36.2	PVC23	0.40
75S	A2F	1RA4	M75	15.0	54.0	61.9	84.0	92.4	34.1	PVC24	0.52
75	A2F	1RA4	M75	15.0	61.1	67.9	84.0	92.4	40.9	PVC24	0.50
90	A2F	1RA4	M90	24.0	66.6	79.9	108.0	118.8	60.3	PVC31	1.60
100	A2F	1RA4	M100	24.0	76.0	91.0	123.0	135.3	57.2	LSF33	1.78
115	A2F	1RA4	M115	24.0	86.0	97.9	133.4	146.7	67.3	LSF34	2.67
130	A2F	1RA4	M130	24.0	97.0	114.9	152.4	167.6	74.7	LSF35	3.80

Dimensions are displayed in millimetres unless otherwise stated

TE1FU STAINLESS STEEL

TE1FU GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

FOR ALL TYPES OF ARMOURED CABLES

- 316L stainless steel
- 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 armour clamping
- -60˚C to +130˚C
- Integral protected deluge seal
- Controlled outer load retention seal
- Unique OSTG prevents overtightening
- Globally marked, IECEx, ATEX and cCSAus
- Superior EMC performance

IP66 IP67 IP68

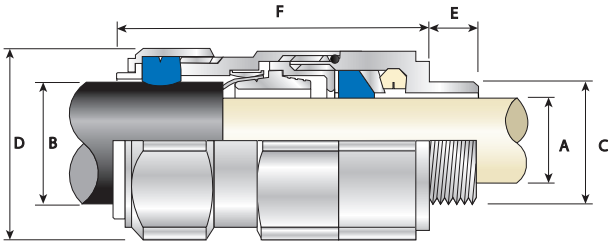
DELUGE PROTECTED EMC +130˚C ↑ -60˚C

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 = 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	316L Stainless Steel
ARMOUR CLAMPING	Reversible Armour Cone & AnyWay Universal Clamping Ring
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 & 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 18ATEX1326X CML 18ATEX4318X	IECEx CERTIFICATE	IECEx CML 18.0183X
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	1310517		
CSAus CODE OF PROTECTION	Class II, Div 2, Groups E,F and G; Class III, Div 1 and Div 2; 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, Div 1 and Div 2; Enclosure Type 3, 4 and 4X; Ex d IIC, Ex e IIC, Ex nR II		
COMPLIANCE STANDARDS	CSA-C22.2 No 0, 18, 25, 30, 94, 174; CSA C22.2 No 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 CERTIFICATE (INDIA)	P444949
NEPSI CERTIFICATE	GYJ18.1253X	INMETRO APPROVAL	TÜV 11.0374X
RETIE APPROVAL NUMBER	03866	UkrSEPRO CERTIFICATE	СЦ 19.0371X
MARINE APPROVALS	LRS: 01/00172, DNV: TAE000000Y, ABS: 20-LD1948801-PDA, BV: 43180 A1 BV		



COMBINED ORDERING REFERENCE			AVAILABLE ENTRY THREADS 'C'		OVERALL 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 'E'	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX			
20S16	TE1FU	1RA4	M20	15.0	3.1	8.6	6.1	13.1	0.3	1.0	0.8	1.25	24.0	26.4	24.0	PVC04	0.15
20S	TE1FU	1RA4	M20	15.0	6.1	11.6	9.5	15.9	0.3	1.0	0.8	1.25	24.0	26.4	24.0	PVC04	0.15
20	TE1FU	1RA4	M20	15.0	6.5	13.9	12.5	20.9	0.4	1.0	0.8	1.25	30.5	33.6	30.5	PVC06	0.23
25S	TE1FU	1RA4	M25	15.0	11.1	19.9	14.0	22.0	0.4	1.2	1.25	1.6	37.5	41.3	37.5	PVC09	0.34
25	TE1FU	1RA4	M25	15.0	11.1	19.9	18.2	26.2	0.4	1.2	1.25	1.6	37.5	41.3	37.5	PVC09	0.34
32	TE1FU	1RA4	M32	15.0	17.0	26.2	23.7	33.9	0.4	1.2	1.6	2.0	46.0	50.6	46.0	PVC11	0.55
40	TE1FU	1RA4	M40	15.0	22.0	32.1	27.9	40.4	0.4	1.6	1.6	2.0	55.0	60.5	55.0	PVC15	0.79
50S	TE1FU	1RA4	M50	15.0	29.5	38.1	35.2	46.7	0.4	1.6	2.0	2.5	60.0	66.0	60.0	PVC18	1.00
50	TE1FU	1RA4	M50	15.0	35.6	44.0	40.4	53.0	0.6	1.6	2.0	2.5	70.1	77.1	70.1	PVC21	1.37
63S	TE1FU	1RA4	M63	15.0	40.1	49.9	45.6	59.4	0.6	1.6	2.0	2.5	75.0	82.4	75.0	PVC23	1.50
63	TE1FU	1RA4	M63	15.0	47.2	55.9	54.6	65.8	0.6	1.6	2.0	2.5	80.0	88.0	80.0	PVC25	1.56
75S	TE1FU	1RA4	M75	15.0	52.8	61.9	59.0	72.0	0.6	1.6	2.0	2.5	90.0	99.0	90.0	PVC28	2.45
75	TE1FU	1RA4	M75	15.0	59.1	67.9	66.7	78.4	0.6	1.6	2.5	3.0	100.0	110.0	100.0	PVC30	3.15
90	TE1FU	1RA4	M90	24.0	66.6	78.6	76.2	90.3	0.8	1.6	3.15	4.0	115.0	126.5	115.0	PVC32	4.62
100	TE1FU	1RA4	M100	24.0	76.0	90.9	86.1	101.4	0.8	1.6	3.15	4.0	127.0	139.7	127.0	LSF33	4.95
115	TE1FU	1RA4	M115	24.0	86.0	97.9	101.5	110.2	0.8	1.6	3.15	4.0	138.0	151.8	138.0	LSF34	7.60
130	TE1FU	1RA4	M130	24.0	97.0	114.9	110.2	123.2	0.8	1.6	3.15	4.0	157.0	172.7	157.0	LSF35	8.73

Dimensions are displayed in millimetres unless otherwise stated

ORDERING ACCESSORIES

When selecting and installing certified electrical equipment and components in potentially Explosive Atmospheres, it is the users responsibility to ensure that the local industry codes of practice are observed and followed, for example **AS/NZS 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.

737DM3M25
737 Adaptor - Globally Certified - M25 (M) x M20 (F) - Nickel Plated Brass

PRODUCT TYPE	FORM OF PROTECTION	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 B Below	From Table C Below	From Table D Below
737	D	M	3	M	2	5

EXAMPLE 2.

767DM25
767 Stopper Plug - Globally Certified - M20 - Nickel Plated Brass

PRODUCT TYPE	FORM OF PROTECTION	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
767	D	M	2	5

TABLE A

CODE	FORM OF PROTECTION
D	Group I and Group II Globally Certified Ex d & Ex e

TABLE B

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 C

CODE	THREAD SIZE						
	METRIC 'M'	NPSM 'N'	NPT 'T'	PG 'P'	BSPP 'B'	IMPERIAL 'I'	BSPT'S'
1A	-	-	-	7	-	-	-
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 thread sizes available upon request

TABLE D

CODE	MATERIAL
4	Stainless Steel 316L
5	Nickel Plated Brass

Nominal dimensions shown in this catalogue 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.

737
SIZING TABLE

MALE THREAD			FEMALE THREAD																																									
SIZE	ORDERING CODE DEFINITION (**)		M1	M2	M3	M4	M5	M6	M7	M8	P1A	P1	P2	P3	P4	P5	P6	P7	P8	P9	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	B1	B2	B3	B4	B5	B6	B7	B8
			M16	M20	M25	M32	M40	M50	M63	M75	PG7	PG9	PG11	PG13.5	PG16	PG21	PG29	PG36	PG42	PG48	½" NPT	¾" NPT	1" NPT	1 ¼" NPT	1 ½" NPT	2" NPT	2 ½" NPT	3" NPT	3 ½" NPT	4" NPT	½" BSPP	¾" BSPP	1" BSPP	1 ¼" BSPP	1 ½" BSPP	2" BSPP	2 ½" BSPP	3" BSPP
M16	M1																																					
M20	M2																																					
M25	M3																																					
M32	M4																																					
M40	M5																																					
M50	M6																																					
M63	M7																																					
M75	M8																																					
PG7	P1A																																					
PG9	P1																																					
PG11	P2																																					
PG13.5	P3																																					
PG16	P4																																					
PG21	P5																																					
PG29	P6																																					
PG36	P7																																					
PG42	P8																																					
PG48	P9																																					
½" NPT	T1																																					
¾" NPT	T2																																					
1" NPT	T3																																					
1 ¼" NPT	T4																																					
1 ½" NPT	T5																																					
2" NPT	T6																																					
2 ½" NPT	T7																																					
3" NPT	T8																																					
3 ½" NPT	T9																																					
4" NPT	T10																																					
½" BSPP	B1																																					
¾" BSPP	B2																																					
1" BSPP	B3																																					
1 ¼" BSPP	B4																																					
1 ½" BSPP	B5																																					
2" BSPP	B6																																					
2 ½" BSPP	B7																																					
3" BSPP	B8																																					

Additional sizes available upon request
For specific certification information please contact CMP Products

Key: IECEx certified reducer IECEx certified adaptor Industrial adaptor / reducer

HOW TO COMPILE ORDERING CODES

Type - Protection - Male Size (**) - Female Size (**) - Material

Letter D following type 737 = Dual Certified Ex d and Ex e
Suffix 5 = Nickel Plated Brass
Suffix 4 = Stainless Steel 316L

Examples:

737-D-M2-M3-5 = M20 x M25 Adaptor, Nickel Plated Brass

737-D-B2-M3-4 = ¾" BSPP x M25 Adaptor, Stainless Steel

737-D-M3-M2-4 = M25 x M20 Adaptor, Stainless Steel

737 Simtars

Ex db | Ex eb | Ex ta

IP66 | IP67 | IP68

ADAPTORS & REDUCERS

- Used for thread conversion
- Refer to page 27 for available configurations
- Wide range of thread types and sizes available
- Equipment interface o-ring seal available
- -60˚C to +200˚C (metallic versions)
- Globally marked, IECEx, ATEX, UL and cCSAus

Reducer

Adaptor

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX CERTIFICATE	CML 18ATEX1320X
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da; Ex I M2, Ex db I Mb, Ex eb I Mb (Ex II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da, only on Nylon version)
IECEx CERTIFICATE	IECEx CML 18.0177X, IECEx SIM 15.0002X
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)

EXAMPLE ORDERING REFERENCE	MALE THREAD SIZE	FEMALE THREAD SIZE
737DM2M35	M20 X 1.5	M25 X 1.5
737DM3M45	M25 X 1.5	M32 X 1.5
737DM3M25	M25 X 1.5	M20 X 1.5
737DM4M35	M32 X 1.5	M25 X 1.5
737DT1M25	NPT ½"	M20 X 1.5
737DT2M35	NPT ¾"	M25 X 1.5
737DM2T15	M20 X 1.5	NPT ½"
737DT1T25	NPT ½"	NPT ¾"

For material options please replace suffix "5" with "4" for 316 Grade Stainless Steel to the ordering reference

Dimensions are displayed in millimetres unless otherwise stated.

787 Simtars

Ex db | Ex eb | Ex ta

IP66 | IP67 | IP68

90° ADAPTORS

- Protects cables from excessive bending stress
- 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, IECEx, ATEX and cCSAus
- Wide range of thread types and sizes available

Machined & cast M20 to M50

Machined M63 and above

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX CERTIFICATE	CML 18ATEX1319U
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ex I M2, Ex db I Mb, Ex eb I Mb
IECEx CERTIFICATE	IECEx CML 18.0176U, IECEx SIM 17.0009U
CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da

EXAMPLE ORDERING REFERENCE	MALE THREAD SIZE	FEMALE THREAD SIZE
787DM2M25	M20 X 1.5	M20 X 1.5
787DM3M35	M25 X 1.5	M25 X 1.5
787DM4M45	M32 X 1.5	M32 X 1.5
787DM5M55	M40 X 1.5	M40 X 1.5
787DT1T15	NPT ½"	NPT ½"
787DT2T25	NPT ¾"	NPT ¾"
787DT1M25	NPT ½"	M20 X 1.5
787DT2M35	NPT ¾"	M25 X 1.5

For material options please replace suffix "5" with "4" for 316 Grade Stainless Steel to the ordering reference

Dimensions are displayed in millimetres unless otherwise stated.

777

Ex db | Ex eb | Ex ta

IP66 | IP67 | IP68

INSULATED ADAPTORS

- Isolates metallic cable glands from equipment
- Essential in areas of high electromagnetic noise
- Particularly relevant in power plants
- Can be supplied with thread conversion
- -60˚C to +130˚C
- Globally marked, IECEx, ATEX and cCSAus
- Wide range of thread types and sizes available

Type A

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX CERTIFICATE	CML 18ATEX1328U
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
IECEx CERTIFICATE	IECEx CML 18.0185U
CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da

EXAMPLE ORDERING REFERENCE	MALE THREAD SIZE	FEMALE THREAD SIZE
777DAM2M25	M20 X 1.5	M20 X1.5
777DAM3M35	M25 X 1.5	M25 X 1.5
777DAM4M45	M32 X 1.5	M32 X 1.5
777DAT1T15	NPT ½"	NPT ½"
777DAT2T25	NPT ¾"	NPT ¾"
777DAT3T35	NPT 1"	NPT 1"
777DAT1M25	NPT ½"	M20 X1.5
777DAT2M35	NPT ¾"	M25 X 1.5

For material options please replace suffix "5" with "4" for 316 Grade Stainless Steel to the ordering reference

Dimensions are displayed in millimetres unless otherwise stated.

797

Ex db | Ex eb | Ex ta

IP66 | IP67 | IP68

MALE-MALE & FEMALE-FEMALE ADAPTORS

- Supplied with male or female threads
- Can be supplied with thread conversion
- -60˚C to +200˚C
- Globally marked, IECEx, ATEX and cCSAus
- Wide range of thread types and sizes available

Female-Female

Male-Male

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX CERTIFICATE	CML 18ATEX1320X
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da; Ex I M2, Ex db I Mb, Ex eb I Mb
IECEx CERTIFICATE	IECEx CML 18.0177X
CODE OF PROTECTION	Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da

EXAMPLE ORDERING REFERENCE	MALE FORWARD THREAD	MALE REAR THREAD
797DM1MM1M5	M16 X 1.5	M16 X 1.5
797DM3MM3M5	M25 X 1.5	M25 X 1.5
797DM4MM4M5	M32 X 1.5	M32 X 1.5
797DT1MT1M5	NPT ½"	NPT ½"
797DT2MT2M5	NPT ¾"	NPT ¾"
797DT3MT3M5	NPT 1"	NPT 1"
797DM2MT1M5	M20 X 1.5	NPT ½"
797DM2MT2M5	M20 X 1.5	NPT ¾"
797DM3MT2M5	M25 X 1.5	NPT ¾"
EXAMPLE ORDERING REFERENCE	**FEMALE FORWARD THREAD**	**FEMALE REAR THREAD**
797DM3FM3F5	M25 X 1.5	M25 X 1.5
797DM4FM4F5	M32 X 1.5	M32 X 1.5
797DT1FM1F5	NPT ½"	NPT ½"
797DT2FM2F5	NPT ¾"	NPT ¾"

For material options please replace suffix "5" with "4" for 316 Grade Stainless Steel to the ordering reference

Dimensions are displayed in millimetres unless otherwise stated.

747 & 757

Ex db | Ex eb | Ex ta

IP66 | IP67 | IP68

STOPPER PLUGS

- Available in hexagon and recessed heads
- Provides means of blanking unused cable entries
- Temporary or permanent
- Tamper-proof version available
- Nylon Ex e only version available on request only
- -60˚C to +200˚C (metallic versions)
- Globally marked, IECEx, ATEX, cCSAus and UL
- Wide range of thread types and sizes available

757

747 (IP66 only)

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX CERTIFICATE	CML 18ATEX1320X
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da; Ex I M2, Ex db I Mb, Ex eb I Mb (Ex II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da, only on Nylon version)
IECEx CERTIFICATE	IECEx CML 18.0177X
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)

747 - THREAD SIZE	747 - RECESSED	757 - THREAD SIZE	757 - HEXAGON
M16	747DAM15	M16	757DM15
M20	747DAM25	M20	757DM25
M25	747DAM35	M25	757DM35
M32	747DAM45	M32	757DM45
M40	747DAM55	M40	757DM55
½"	747DAT15	NPT ½"	757DT15
¾"	747DAT25	NPT ¾"	757DT25
1"	747DAT35	NPT 1"	757DT35
1 ¼"	747DAT45	NPT 1 ¼"	757DT45
1 ½"	747DAT55	NPT 1 ½"	757DT55

For material options please replace suffix "5" with "4" for 316 Grade Stainless Steel to the ordering reference

Dimensions are displayed in millimetres unless otherwise stated.

767 Simtars

Ex db | Ex eb | Ex ta

IP66 | IP67 | IP68

STOPPER PLUGS

- Simtars marked for Queensland coal industry
- Provides means of blanking unused cable entries
- Temporary or permanent
- -60˚C to +200˚C (metallic versions)
- Globally marked, IECEx, ATEX, cCSAus and UL
- Wide range of thread types and sizes available

767

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX CERTIFICATE	CML 18ATEX1320X
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da; Ex I M2, Ex db I Mb, Ex eb I Mb (Ex II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da, only on Nylon version)
IECEx CERTIFICATE	IECEx CML 18.0177X; IECEx SIM 15.0002X
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)

ORDERING REFERENCE (NICKEL PLATED BRASS)	ORDERING REFERENCE (316L STAINLESS STEEL)	THREAD SIZE	MINIMUM THREAD LENGTH	HEAD DIAMETER	PROTRUSION LENGTH	ALLEN KEY SIZE
767DM15	767DM14	M16 X 1.5	15.0	22.0	5.5	M8
767DM25	767DM24	M20 X 1.5	15.0	27.0	5.5	M10
767DM35	767DM34	M25 X 1.5	15.0	30.0	5.5	M10
767DM45	767DM44	M32 X 1.5	15.0	36.0	5.5	M10
767DM55	767DM54	M40 X 1.5	15.0	46.0	5.5	M10
767DM65	767DM64	M50 X 1.5	15.0	55.0	5.5	M10
767DM75	767DM74	M63 X 1.5	15.0	68.0	5.5	M10
767DM85	767DM84	M90 X 2.0	24.0	95.0	5.5	M14
767DM95	767DM94	M100 x 2.0	24.0	108.0	5.5	M14

For material options please replace suffix "5" with "4" for 316 Grade Stainless Steel to the ordering reference

Dimensions are displayed in millimetres unless otherwise stated.

781

Ex db | Ex eb | Ex ta

IP66

BREATHER / DRAINS

- 781E for Ex e use
- 781D for Ex d use
- Drains equipment susceptible to moisture collection
- Enables equipment to breathe
- -60˚C to +130˚C (metallic versions)
- Globally marked, IECEx, ATEX and cCSAus
- NPT threads available

Ex d

Ex e

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel Only
ATEX CERTIFICATE	CML 18ATEX1330U
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
IECEx CERTIFICATE	IECEx CML 18.0187U
CODE OF PROTECTION	781D: Ex db IIC Gb, Ex ta IIIC Da 781E: Ex eb IIC Gb, Ex ta IIIC Da

ORDERING REFERENCE 781D	ORDERING REFERENCE 781E	THREAD SIZE
781DT15	781ET15	NPT ½"
781DT25	781ET25	NPT ¾"
781DM25	781EM25	M20
781DM35	781EM35	M25

For material options please replace suffix "5" with "4" for 316 Grade Stainless Steel to the ordering reference

Dimensions are displayed in millimetres unless otherwise stated.

717e

Ex eb | Ex ta

IP66 | IP67 | IP68 | IP 69K

Ex e NYLON STOPPER PLUGS

- Provides means of blanking unused cable entries
- Cost effective moulded design
- Universal tightening design (hex head, allen key or slotted/flat screw head)
- Temporary or permanent
- Equipment interface seal available
- -60 to +95°C

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	IP66,IP67,IP68*,IP69,IP69K	30 metres for 16 hours**

** Alternate depths / durations can be provided upon request.

ATEX CERTIFICATE	CML20ATEX3054X
CODE OF PROTECTION	Ex II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da
IECEX CERTIFICATE	IECEx CML 20.0038X
CODE OF PROTECTION	Ex eb IIC Gb, Ex ta IIIC Da

COLOUR	SUFFIX	METRIC ORDERING EXAMPLE
BLACK - RAL9011	-	717EM2
BLUE - RAL5015	4	717EM24

ORDERING REFERENCE	THREAD SIZE	MINIMUM THREAD LENGTH	ACROSS FLATS	ACROSS CORNERS DIAMETER	PROTRUSION LENGTH
717EM2	M20	10.0	24.0	26.3	7.0
717EM3	M25	10.0	28.0	30.7	7.0
717EM4	M32	10.0	38.0	41.7	8.0

Dimensions shown are in millimetres unless otherwise stated.

Ordering reference shown for black metric product.
For additional sizes please refer to CMP 767 above.

780 & PX780REX

Ex db Ex eb Ex ta

IN-LINE UNIONS

IP66

- Barrier and non-barrier
- RapidEx liquid pour sealing system reduces installation time
- Allows the connection of conduit or glands to equipment
- Suitable for rigid or flexible conduit
- Eliminates the need to rotate the conduit
- -60˚C to +200˚C (780) and -60˚C to +85˚C (PX780REX)
- Globally marked, IECEx, ATEX and cCSAus

780 Non-barrier

PX780REX Barrier

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX CERTIFICATE	CML 18ATEX1327X
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex I M2, Ex db I Mb, Ex eb I Mb
IECEx CERTIFICATE	IECEx CML 18.0190X
CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da,Ex db I Mb, Ex eb I Mb

ORDERING REFERENCE 780	ORDERING REFERENCE PX780REX	MALE FORWARD THREAD	FEMALE REAR THREAD
780DM2M25	PX780REXDM2M25	M20 X 1.5	M20 X 1.5
780DM3M35	PX780REXDM3M35	M25 X 1.5	M25 X 1.5
780DM4M45	PX780REXDM4M45	M32 X 1.5	M32 X 1.5
780DM5M55	PX780REXDM5M55	M40 X 1.5	M40 X 1.5
780DT1T1S5	PX780REXDT1T15	NPT ½"	NPT ½"
780DT2T25	PX780REXDT2T25	NPT ¾"	NPT ¾"
780DT3T35	PX780REXDT3T35	NPT 1"	NPT 1"
780DT4T45	PX780REXDT4T45	NPT 1¼"	NPT 1¼"
780DT5T55	PX780REXDT5T55	NPT 1½"	NPT 1½"

For material options please replace suffix "5" with "4" for 316 Grade Stainless Steel to the ordering reference

Dimensions are displayed in millimetres unless otherwise stated.

789 & PX789REX

Ex db Ex eb Ex ta

90° SWIVEL UNIONS

IP66

- RapidEx liquid pour sealing system reduces installation time
- Allows the connection of conduit or glands to equipment
- Male / male and female / female threads available
- Suitable for rigid or flexible conduit
- Eliminates the need to rotate the conduit
- -60˚C to +200˚C (789) and -60˚C to +85˚C (PX789REX)
- Globally marked, IECEx, ATEX and cCSAus

789 Non-barrier

PX789REX Barrier

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX CERTIFICATE	CML 18ATEX1329U
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex I M2, Ex db I Mb, Ex eb I Mb
IECEx CERTIFICATE	IECEx CML 18.0186U
CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da; Ex db I Mb, Ex eb I Mb,

ORDERING REFERENCE 789	ORDERING REFERENCE PX789REX	MALE FORWARD THREAD	FEMALE REAR THREAD
789DM2M25	PX789REXDM2M25	M20 X 1.5	M20 X 1.5
789DM3M35	PX789REXDM3M35	M25 X 1.5	M25 X 1.5
789DM4M45	PX789REXDM4M45	M32 X 1.5	M32 X 1.5
789DM5M55	PX789REXDM5M55	M40 X 1.5	M40 X 1.5
789DM6M65	PX789REXDM6M65	M50 X 1.5	M50 X 1.5
789DM7M75	PX789REXDM7M75	M63 X 1.5	M63 X 1.5
789DT1T15	PX789REXDT1T15	NPT ½"	NPT ½"
789DT2T25	PX789REXDT2T25	NPT ¾"	NPT ¾"
789DT3T35	PX789REXDT3T35	NPT 1"	NPT 1"
789DT4T45	PX789REXDT2T25	NPT 1¼"	NPT 1¼"

For material options please replace suffix "5" with "4" for 316 Grade Stainless Steel to the ordering reference

Dimensions are displayed in millimetres unless otherwise stated.

784 & PX784REX

Ex db Ex eb Ex ta

45° SWIVEL UNIONS

IP66

- RapidEx liquid pour sealing system reduces installation time
- Allows the connection of conduit or glands to equipment
- Male / male and female / female threads available
- Suitable for rigid or flexible conduit
- Eliminates the need to rotate the conduit
- Equipment interface o-ring seal available
- -60˚C to +200˚C (784) and -60˚C to +85˚C (PX784REX)
- Globally marked, IECEx, ATEX and cCSAus

784

PX784REX

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX CERTIFICATE	CML 18ATEX1329U
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da; IP6X Ex I M2, Ex db I Mb, Ex eb I Mb
IECEx CERTIFICATE	IECEx CML 18.0186U
CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb

ORDERING REFERENCE 784	ORDERING REFERENCE PX784REX	FIRST THREAD	SECOND THREAD
784DM2M25	PX784REXDM2M25	M20 X 1.5	M20 X 1.5
784DM3M35	PX784REXDM3M35	M25 X 1.5	M25 X 1.5
784DM4M45	PX784REXDM4M45	M32 X 1.5	M32 X 1.5
784DM5M55	PX784REXDM5M55	M40 X 1.5	M40 X 1.5
784DM6M65	PX784REXDM6M65	M50 X 1.5	M50 X 1.5
784DM7M75	PX784REXDM7M75	M63 X 1.5	M63 X 1.5
784DT1M25	PX784REXDT1M25	NPT ½"	M20 X 1.5
784DT2M35	PX784REXDT2M35	NPT ¾"	M25 X 1.5
784DT1T15	PX784REXDT1T15	NPT ½"	NPT ½"
784DT2T25	PX784REXDT2T25	NPT ¾"	NPT ¾"

Dimensions are displayed in millimetres unless otherwise stated.

PXRCREX

Ex db Ex eb Ex ta

EXPLOSIVE ATMOSPHERE

IP66

- RapidEx liquid pour sealing system reduces installation time
- Designed for rigid and flexible conduits
- Easy to install running coupler design
- Barrier type flameproof seal
- -60˚C to +85˚C
- Globally marked, IECEx and ATEX

DESIGN SPECIFICATION	BS 6121:Part 1:1989
ENCLOSURE PROTECTION	IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only
ATEX CERTIFICATE	CML 18ATEX1325X, CML 18ATEX4317X
CODE OF PROTECTION	Ex II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da
IECEx CERTIFICATE	IECEx CML 18.0182X
CODE OF PROTECTION	Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da

ORDERING REFERENCE PXRCREX	METRIC FEMALE THREAD CONNECTION
20PXRCREX1RA5	M20 X 1.5
25PXRCREX1RA5	M25 X 1.5
32PXRCREX1RA5	M32 X 1.5
40PXRCREX1RA5	M40 X 1.5
50SPXRCREX1RA5	M50 X 1.5
50PXRCREX1RA5	M63 X 1.5
63SPXRCREX1RA5	M63 X 1.5
63PXRCREX1RA5	M63 X 1.5
75SPXRCREX1RA5	M75 X 1.5
75PXRCREX1RA5	M75 X 1.5
90PXRCREX1RA5	M90 X 1.5

Dimensions are displayed in millimetres unless otherwise stated.

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.

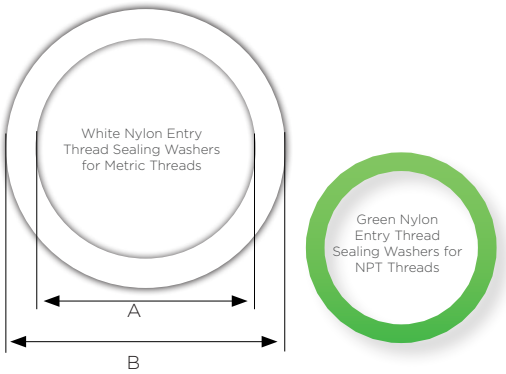
All CMP nylon entry thread sealing washers have an operating temperature range of -60°C to +130°C; for the purpose of installation, this may be restricted by, or exceeded by the operating temperature of the cable gland or cable accessory used, and care should be taken to observe the constraining temperature(s).

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.

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.

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

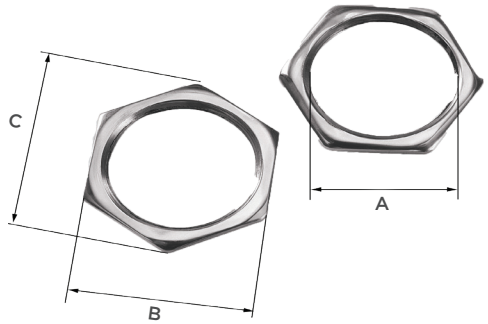


STANDARD LOCKNUTS

Nickel Plated Brass - Recommended in securing brass cable glands and Accessories to a gland plate or into equipment.

Aluminium - Recommended when installing aluminium cable glands to prevent the galvanic corrosion which can occur when dissimilar metals are coupled together.

Please refer to ordering reference numbers (page 26), e.g. 20 LN4 for M20 stainless steel locknut, 050NPTLN4 for ½" NPT stainless steel locknut.



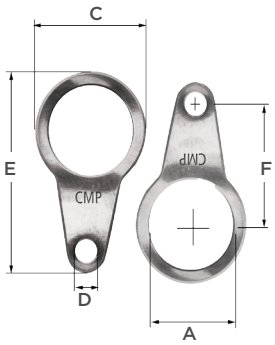
ORDERING REFERENCE (METRIC)	THREAD DIAMETER 'A'	MINIMUM THICKNESS	ACROSS FLATS DIMENSION 'B'	ACROSS CORNERS DIAMETER 'C'
16LN5	M16 X 1.5	3.2	22.0	25.4
16HLN5	M16 X 1.5	5.0	22.0	25.4
20LN5	M20 X 1.5	3.2	24.0	27.7
20HLN5	M20 X 1.5	5.0	24.0	27.7
25LN5	M25 X 1.5	3.2	30.0	34.6
25HLN5	M25 X 1.5	5.0	30.0	34.6
32LN5	M32 X 1.5	3.2	36.0	41.6
32HLN5	M32 X 1.5	5.0	36.0	41.6
40LN5	M40 X 2.0	4.8	46.0	53.1
50LN5	M50 X 2.0	6.3	55.0	63.5
63LN5	M63 X 2.0	6.3	70.0	80.8
75LN5	M75 X 2.0	6.3	84.0	97.0
90LN5	M90 X 2.0	9.5	106.0	122.4
100LN5	M100 X 2.0	9.5	123.0	142.0

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.

EARTH TAGS

CMP slip-on Earth tags, installed between the cable gland and equipment, provide an earth bond connection. 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.

METRIC	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



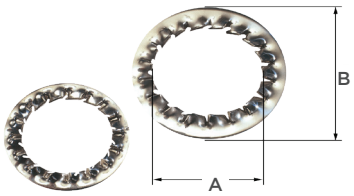
ORDERING REFERENCE (BRASS)	REFERENCE DIAMETER 'A'	MINIMUM THICKNESS	NOMINAL DIAMETER 'C'	HOLE SIZE 'D'	NOMINAL LENGTH 'E'	NOMINAL CENTRES 'F'
16ET	M16	1.3	25.4	M6	50.4	30.2
20ET	M20	1.3	27.1	M6	52.3	33.1
25ET	M25	1.5	35.1	M6	59.2	35.6
32ET	M32	1.5	45.2	M12	77.0	43.1
40ET	M40	1.5	53.7	M13	88.7	45.4
50ET	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

Stainless steel, aluminium and nickel plated brass earth tags are available. Please refer to ordering reference numbers, e.g. 20ET4 for M20 stainless steel earth tag, 050NPTET4 for ½" NPT stainless steel earth tag.

SERRATED WASHERS

Available in stainless steel, these 'shake-proof' serrated washers can be 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.

Please refer to ordering reference numbers (page 26) for NPT options.



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

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.

CABLE GLAND SPANNERS

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.

CABLE GLAND SIZE	A**		C**			E**				SS2K			T3CDS/TE1FU				PXSS2K			PX2K*		
	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
16	SP01	SP01	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	-	-
20S16	SP03	SP01	SP03	SP03	SP03	-	-	-	-	SP03	SP03	SP03	SP03	SP01	SP03	SP03	-	-	-	-	-	-
20S	SP03	SP01	SP03	SP03	SP03	SP03	SP03	SP03	SP03	SP03	SP03	SP03	SP03	SP01	SP03	SP03	SP06	SP06	SP03	SP04	SP03	SP03
20	SP06	SP06	SP06	SP06	SP04	SP06	SP06	SP06	SP04	SP06	SP06	SP06	SP04	SP03	SP04	SP04	SP06	SP06	SP06	SP04	SP04	SP04
25 / 25S	SP09	SP09	SP09	SP09	SP07	SP09	SP09	SP09	SP07	SP09	SP09	SP09	SP07	SP07	SP07	SP07	SP09	SP09	SP09	SP07	SP07	SP07
32	SP12	SP12	SP13	SP13	SP13	SP12	SP12	SP13	SP13	SP12	SP12	SP12	SP13	SP07	SP13	SP13	SP12	SP12	SP12	SP13	SP13	SP13
40	SP15	SP13	SP15	SP14	SP14	SP15	SP15	SP14	SP14	SP15	SP15	SP15	SP14	SP13	SP14	SP14	SP15	SP15	SP15	SP14	SP14	SP14
50S	SP14	SP14	SP18	SP18	SP18	SP14	SP18	SP18	SP18	SP14	SP14	SP14	SP18	SP16	SP18	SP18	SP14	SP14	SP14	SP18	SP18	SP18
50	SP18	SP18	SP19	SP20	SP20	SP18	SP19	SP20	SP20	SP18	SP18	SP18	SP20	SP18	SP20	SP20	SP18	SP18	SP18	SP20	SP20	SP20
63S	SP20	SP19	SP20	SP21	SP21	SP20	SP20	SP21	SP21	SP20	SP20	SP20	SP21	SP19	SP21	SP21	SP20	SP20	SP20	SP21	SP21	SP21
63	SP21	SP20	SP22	SP22	SP22	SP21	SP39	SP22	SP22	SP21	SP21	SP21	SP22	SP20	SP22	SP22	SP21	SP21	SP21	SP22	SP22	SP22
75S	SP23	SP22	SP24	SP24	SP24	SP23	SP24	SP24	SP24	SP23	SP22	SP22	SP24	SP22	SP24	SP24	SP22	SP22	SP22	SP24	SP24	SP24
75	SP23	SP23	SP25	SP25	SP25	SP23	SP25	SP25	SP25	SP23	SP23	SP23	SP25	SP23	SP25	SP25	SP23	SP23	SP23	SP25	SP25	SP25
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100	SP36	SP27	SP36	SP36	SP36	SP36	SP36	SP36	SP36	SP36	SP36	SP36	SP29	SP26	SP29	SP36	-	SP36	SP36	SP29	SP29	SP36
115	SP30	SP37	SP30	SP30	SP30	SP30	SP30	SP30	SP30	SP30	SP30	SP30	SP31	SP28	SP31	SP30	-	-	-	-	-	-
130	SP38	SP38	SP38	SP38	SP38	SP38	SP38	SP38	SP38	SP38	SP38	SP38	SP33	SP32	SP38	SP38	-	-	-	-	-	-

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 and 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 COLOUR	SHROUD MATERIAL - ORDERING EXAMPLES		
	LSF	PVC	PCP
Black	LSF06BLACK	PVC06	PCP06BLACK
Blue Grey	LSF06	PVC06GREY	-
Orange	-	PVC06OR	-

OUTER SEAL TIGHTENING GUIDE (OSTG)

When installing cable glands it is vital that the correct tools are used to carry out the installation.

CMP Products' outer sealing tightening guide (OSTG) are available for determining the size of the cable gland needed to suit a particular cable and also the amount of spanner turns needed to close down the sealing ring without damaging the cable. OSTG's can be provided free of charge, please contact 1300 GLANDS.

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 six continents.

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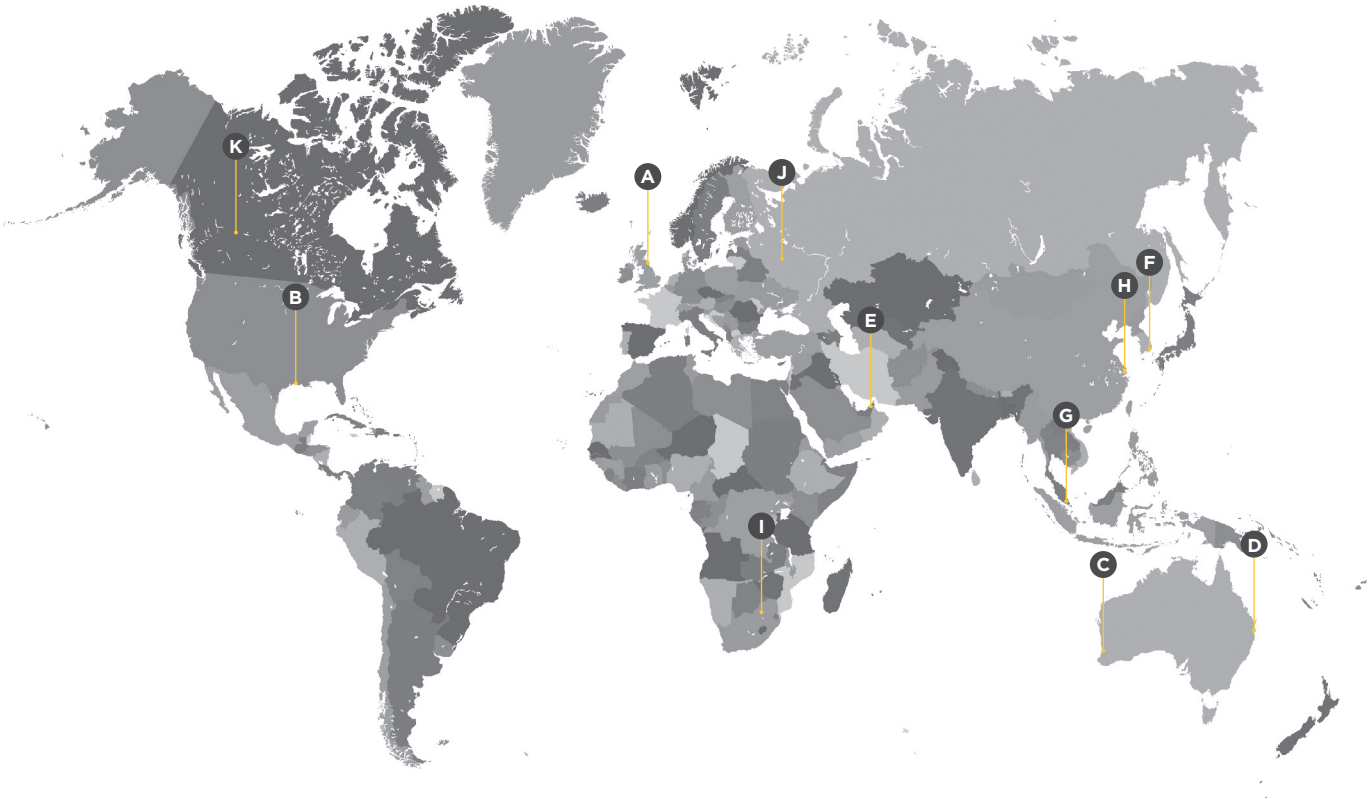

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