



TECHNICAL DATA

CABLE GLAND TYPE : PXRC
INGRESS PROTECTION : IP66
PROCESS CONTROL SYSTEM : ISO 9001
 : ISO/IEC 80079-34:2011

EXPLOSIVE ATMOSPHERES CLASSIFICATION

ATEX CERTIFICATION No : CML 18ATEX1325X, CML 18ATEX4317X
ATEX CERTIFICATION CODE : Ⓔ II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔ II 3G Ex nR IIC Gc
UKEX CERTIFICATION No : CML 21UKEX1214X, CML 21UKEX4215X
UKEX CERTIFICATION CODE : Ⓔ II 2G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da Ⓔ II 3G Ex nR IIC Gc
IECEX CERTIFICATION No : IECEX CML 18.0182X
IECEX CERTIFICATION CODE : Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc

INSTALLATION INSTRUCTIONS

- Installation should only be performed by a competent person using the correct tools. Spanners should be used for tightening. Read all instructions before beginning installation.
- The interface between a cable entry device and its associated enclosure / cable entry will require additional sealing to achieve ingress protection (IP) ratings higher than IP54. The minimum protection level is IP54 for explosive gas atmospheres and IP6X for explosive dust atmospheres. Parallel threads (and tapered threads when using a non-threaded entry) require a CMP sealing washer or integral O-ring face seal (where available) to maintain IP66, 67 and 68 (when applicable). It is the installer's responsibility to ensure the IP rating is maintained at the interface.
 Note: When fitted to a threaded entry, all tapered threads will automatically provide an ingress protection rating of IP66.
- A CMP earth tag should be used when it is necessary to provide an earth bond connection. CMP earth tags have been independently tested to comply with Category B rating specified in IEC 62444 (there are no ratings stated in IEC 60079-0). Ratings are shown in the associated table. CMP earth tags slip over the cable gland or accessory entry thread from inside/outside the enclosure and must be secured with a locknut (if fitted internally).
- Metric entry threads comply with ISO 965-1 and ISO 965-3 with a 6g tolerance as required by IEC 60079-1:2014. The CMP standard metric thread pitch is 1.5mm for threads up to M75, and 2.0mm from M90 and above. Special thread pitches between 0.7 – 2.0mm are available on all products on request. See certificate for details of other thread types. NPT threads are in accordance with ASME B1.20.1-2013 gauging to Cl 3.2 for external threads. For details of other thread types refer to IECEx certificate.
- Enclosures must be strong enough to support the cable and cable gland assembly. The enclosure surface finish must be smooth and flat to facilitate sealing with an O-ring or Entry Thread Sealing Washer for the required IP rating.
- Enclosure walls must be sufficiently strong enough to support the cable and cable gland assembly. Enclosure entries shall be perpendicular. Any draft angles from the casting/moulding process should have a perpendicular flat spot machined to facilitate sealing with an O-ring or Entry Thread Sealing Washer.
- CMP Products recommends that when using the cable gland with a through-hole, the hole must be circular, free of burrs and the diameter no larger than 0.7mm above the thread major diameter. A suitable CMP Products locknut shall be used to secure the product. See CMP Products catalogue for locknut options
- Cable glands do not have any serviceable parts and are therefore not intended to be repaired.



INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPE PXRC

BARRIER CABLE GLAND FOR USE IN EXPLOSIVE ATMOSPHERES WITH BRAID, UNARMoured CABLE OR INDIVIDUAL CORES HOUSED IN CONDUIT.

INCORPORATING EU DECLARATION OF CONFORMITY TO DIRECTIVE 2014/34/EU AND UK STATUTORY REQUIREMENTS SI 2016 No. 1107 (AS AMENDED)



CMP Earth Tag Size	Short Circuit Ratings Symmetrical Fault Current (kA) for 1 second
20	3.06
25	4.06
32	5.40
40	7.20
50	10.40
63	10.40
75	10.40

SPECIFIC CONDITIONS OF USE

- When assembled to flexible conduit, the conduit must be effectively clamped to prevent twisting and pulling.
- The PX range of cable glands with entry threads smaller than a M25 (or equivalent) size shall not be used for Group I, EPL Mb applications where there is a 'high' risk of mechanical damage.

ACCESSORIES

The following accessories are available from CMP Products, as optional extras, to assist with fixing, sealing and earthing :-
 Locknut | Earth Tag | Serrated Washer | Entry Thread (I.P.) Sealing Washer | Shroud *

CMP Products Limited on its sole responsibility declares that the equipment referred to herein conforms to the requirements of the ATEX Directive 2014/34/EU and UK statutory requirements SI 2016 No. 1107 (as amended). This is shown in the following harmonised/designated standards;

EN IEC 60079-0: 2018, EN 60079-1: 2014, EN IEC 60079-7: 2015 + A1: 2018, EN IEC 60079-15: 2019, EN 60079-31: 2014

Malcolm Webber - Product Engineering Manager - (Authorised Person)
 CMP Products Limited, Cramlington, NE23 1WH, UK

EU Economic Operator: CMP Products Germany GmbH. Address: Lukasstraße 25a, 52070 Aachen
 17th March 2020



Notified Body: CML B.V., Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands

Approved Body: Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ

Cable Gland Size	Available Entry Threads (Alternate Metric Thread Lengths Available)					Number of Cores	Standard Female Connection Thread	Diameter Over Conductors	Cable Bedding Diameter	Overall Cable Diameter	Across Flats	Across Corners	Protrusion Length	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)							
	Standard		Option											Max	Max	Max		Max	Max	Max	Max	Size	Type	Ordering Suffix
	Metric	Thread Length (Metric)	NPT	Thread Length (NPT)	NPT																			
20	M20	15.0	1/2"	19.9	3/4"	21	M20	12.6	12.9	13.9	30.0	33.0	48.1	20	PXRC	1RA	0.17							
25	M25	15.0	3/4"	20.2	1"	30	M25	17.5	17.9	19.9	36.0	39.6	47.5	25	PXRC	1RA	0.33							
32	M32	15.0	1"	25.0	1 1/4"	38	M32	23.6	23.9	26.2	41.0	45.1	51.8	32	PXRC	1RA	0.32							
40	M40	15.0	1 1/4"	25.6	1 1/2"	59	M40	30.0	30.3	32.3	50.0	55.0	48.6	40	PXRC	1RA	0.41							
50S	M50	15.0	1 1/2"	26.1	2"	89	M50	36.6	36.9	38.9	55.0	60.5	59.1	50S	PXRC	1RA	0.57							
50	M50	15.0	2"	26.9	2 1/2"	115	M50	41.0	41.3	44.2	60.0	66.0	63.6	50	PXRC	1RA	0.61							
63S	M63	15.0	2"	26.9	2 1/2"	115	M63	47.9	48.4	50.0	70.1	77.1	62.6	63S	PXRC	1RA	0.94							
63	M63	15.0	2 1/2"	39.9	3"	115	M63	53.7	54.0	56.0	75.0	82.5	64.6	63	PXRC	1RA	0.89							
75S	M75	15.0	2 1/2"	39.9	3"	140	M75	59.9	60.2	62.4	80.0	88.0	71.7	75S	PXRC	1RA	1.29							
75	M75	15.0	3"	41.5	3 1/2"	140	M75	64.2	64.2	68.1	85.0	93.5	71.2	75	PXRC	1RA	1.16							
90	M90	20.0	3 1/2"	42.8	4"	140	M90	75.3	75.6	80.1	108.0	118.8	87.3	90	PXRC	1RA	2.63							
100	M100	20.0	3 1/2"	42.8	4"	200	M100	83.6	85.9	84.9	123	135.3	110.0	100	PXRC	1RA	5.54							

Dimensions are displayed in millimetres unless otherwise stated

FI414		
Certificate	Revision	Date
UKEX	0	04/21
IFS	18	03/24
ATEX / IECEx	10	04/19

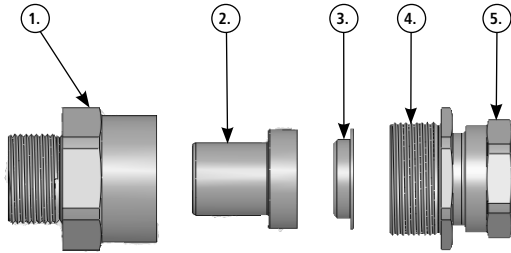


Glasshouse Street • St. Peters • Newcastle upon Tyne • NE6 1BS
 Tel: +44 191 265 7411 • Fax: +44 1670 715 646
 E-Mail: customerservices@cmp-products.co.uk • Web: www.cmp-products.com

INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES PXRC

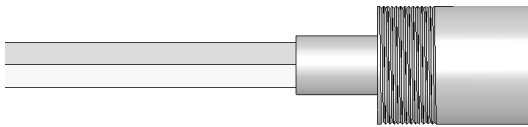
CABLE GLAND COMPONENTS - It is not necessary to dismantle the cable gland any further than illustrated below

1. Entry Component
2. Compound Tube & Resin Dam
3. Washer
4. Nut
5. Running Coupling



PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

1. Prepare the cable (if used) by removing the outer sheath from the cores so that they are exposed within the Compound Tube when finally assembled.



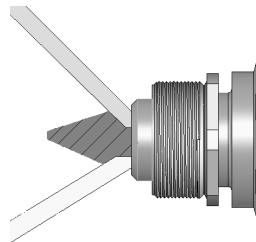
2. Feed the cables/cores through the sections of the conduit gland, then fully tighten the Running Coupling (5) onto the conduit.



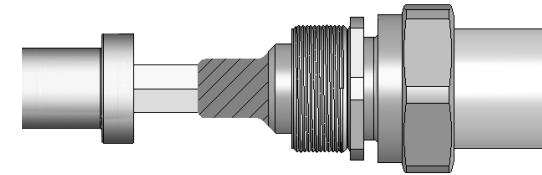
3. If the installation involves a cable, remove any bedding or fillers from around the cable cores. If the cable cores have braid screens, these should be unravelled and then twisted together to form a single core if required. Wearing the protective gloves supplied, mix all of the two-part epoxy compound until it is pliable and an even colour is achieved. (Minimum mixing temperature 10°C / 50°F)

4. Separate the cable cores and apply the compound to the crutch of the cable for a distance of about 6mm and pack into place. If the cable has individual or overall foil screens then these should be removed.

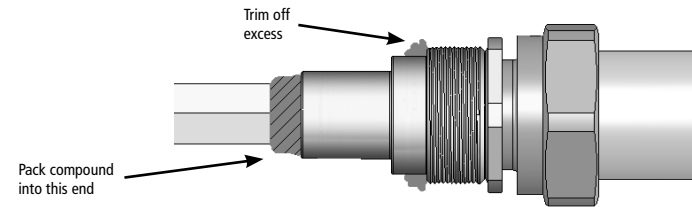
If a drain wire is present then it should be sleeved with some heat shrink tubing which is pushed into the compound before shrinking with the application of some heat. If braid screens have been twisted together they should be treated as a drain wire and sleeved.



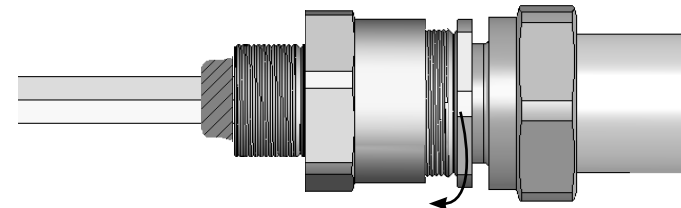
5. Bring the cores together again and pack more compound around them to a length and diameter sufficient to fill the Compound Tube (2), ending in a taper.



6. Pass the Compound Tube (2) over the conductors until the stepped end is fully located with the Washer (3). Pack more compound into place until the Compound Tube is fully filled and trim off any excess.



7. Attach the Entry Item (1) by screwing it into place, making sure the compound is not disturbed, and loosely tightening the Nut (4). Leave until the compound has cured.



8. When the compound has cured the Entry Item (1) should be removed from the assembly and fitted into the apparatus. The gland can then be refitted to it and the Nut (4) fully tightened to complete the installation.

