



TECHNICAL DATA

CABLE GLAND TYPE : PXSS2K-HC
INGRESS PROTECTION : IP66, IP67, IP68
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, I M2 Ex db I Mb, Ex eb I Mb
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, I M2 Ex db I Mb, Ex eb I Mb

IECEx CERTIFICATION No : IECEx CML 18.0182X
IECEx CERTIFICATION CODE : Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb, Ex eb I Mb
cCSAus CERTIFICATION No. : 2288626
cCSAus CERTIFICATION CODE : Class I, Div 1&2, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III, Div. 2; Type 4X; Oil Resistance II
 : Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIIC Da



INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPE PXSS2K-HC

FOR TERMINATION OF UNARMoured, BRAIDED CABLES AND EXTRA HARD CORD USAGE CABLES, INCORPORATING A FLEXIBLE HOSE CONNECTION. FOR USE IN EXPLOSIVE ATMOSPHERES.

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



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.

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

SPECIAL CONDITIONS FOR SAFE USE

- The cable glands used for terminating braid cable are only suitable for fixed installations. Cables must be effectively clamped to prevent twisting and pulling.
- According to the CEC wiring code, connectors with metric threads are only suitable for Areas Classified in ZONES unless fitted with an approved Metric to NPT thread conversion adaptor.
- Wiring method for type of cables that can be used in Class I, Div. 1, 2, and Class I, Zone 1, 2, Classified Areas according to 60079-14 installation wiring method restrictions.
- Shipboard Cables are for use on Marine Platform or shipboards only and are subject to local authorities having jurisdiction on the installation.
- CAUTION - To reduce risk of flame propagation, fittings with ISO metric threads require:-
 a) 5 full threads engaged for gas groups C and D
 b) 10 full threads engaged for gas groups A and B
- When the gland is supplied with metric entry threads, a CMP Entry Thread Washer should be fitted between the connector and the enclosure to prevent the ingress of moisture or dust into the enclosure. Thread tape must not be applied to the threads.
- Before installing the gland, ensure that the gland thread forms and the enclosure thread form are compatible.
- Entry Threads smaller than M25 (or equivalent) shall not be used for Group I, Category M2 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

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 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	Minimum Entry Thread (Metric)	Minimum Thread Length	Diameter Over Conductors	Max Number Of Cores	Overall Cable Diameter		Nominal Hose Bore Ø	Across Flats	Across Corners	Nominal Protusion Length Without Hose Connection	Hose Connection Length	Overall Length	Combined Ordering Reference (Brass Metric)			Shroud	Cable Gland Weight (Kgs)
					Min	Max							Size	Type	Ordering Suffix		
20S16	M20	15.0	8.6	21	3.1	8.6	13.0	30.0	33.0	51.1	16.0	82.5	20S16	PXSS2KHCl3	1RA	PVC06	0.220
20S16	M20	15.0	8.6	21	3.1	8.6	16.0	30.0	33.0	51.1	16.0	82.5	20S16	PXSS2KHCl6	1RA	PVC06	0.220
20S	M20	15.0	11.7	21	6.1	11.7	16.0	30.0	33.0	49.3	16.0	82.5	20S	PXSS2KHCl6	1RA	PVC06	0.220
20	M20	15.0	12.6	21	6.5	14.0	19.0	30.0	33.0	50.0	20.0	86.9	20	PXSS2KHCl9	1RA	PVC06	0.220
25	M25	15.0	17.5	30	11.1	20.0	25.0	36.0	39.6	55.3	27.0	98.8	25	PXSS2KHCl25	1RA	PVC09	0.360
32	M32	15.0	23.6	38	17.0	26.3	32.0	41.0	45.1	55.6	33.0	105.2	32	PXSS2KHCl32	1RA	PVC10	0.450
40	M40	15.0	30.0	59	22.0	32.1	38.0	50.0	55.0	56.3	41.0	114.1	40	PXSS2KHCl38	1RA	PVC13	0.650
50S	M50	15.0	36.6	89	29.5	38.2	51.0	60.0	66.0	57.3	54.0	128.5	50S	PXSS2KHCl51	1RA	PVC18	1.070
50	M50	15.0	41.0	115	35.6	44.0	51.0	60.0	66.0	62.2	54.0	132.1	50	PXSS2KHCl51	1RA	PVC18	0.950
63S	M63	15.0	47.9	115	40.1	49.9	63.0	70.1	77.1	63.0	70.0	150.1	63S	PXSS2KHCl63	1RA	PVC21	1.730
63	M63	15.0	53.7	115	47.2	55.9	63.0	75.0	82.5	65.0	70.0	152.6	63	PXSS2KHCl63	1RA	PVC23	1.430
75S	M75	15.0	59.9	140	52.8	61.9	76.0	80.0	88.0	65.6	91.5	174.6	75S	PXSS2KHCl76	1RA	PVC26	2.500
75	M75	15.0	64.3	140	59.1	67.9	76.0	85.0	93.5	63.7	91.5	177.4	75	PXSS2KHCl76	1RA	PVC27	1.960

Dimensions are displayed in millimetres unless otherwise stated

FI459		
Certificate	Revision	Date
UKEX	0	04/21
IFS	6	03/23
ATEX / IECEx	5	-
CSA	7	-

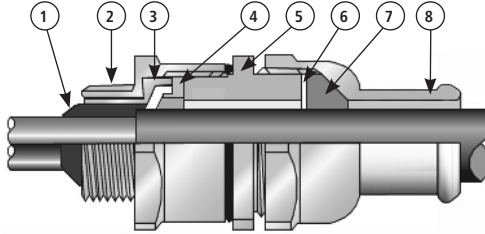


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INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES PXSS2K-HC

CABLE GLAND COMPONENTS

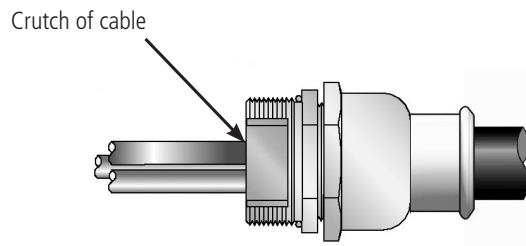
1. Resin
2. Entry Component
3. Compound Tube
4. Spacer
5. Main Item
6. Skid Washer
7. Outer Seal
8. Outer Seal Nut Hose Connection



PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

1. Separate the gland components by removing the main item (6) and outer seal nut assembly (7, 8, 9). Slacken the outer seal nut slightly to relax the seal and pass the main item/outer seal nut assembly over the cable, nut end first.

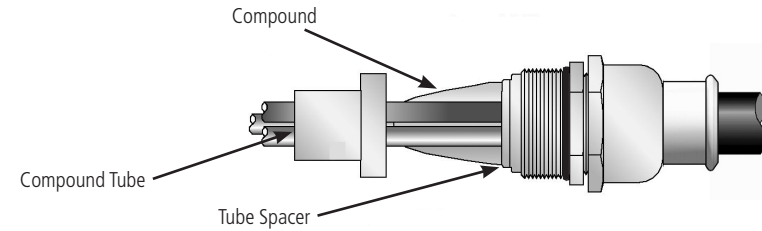
2. Strip the cable sheath by a length to suit the equipment. Position the end of the sheath in line with the main item (6) as shown below and tighten the outer seal nut enough to hold the cable in position.



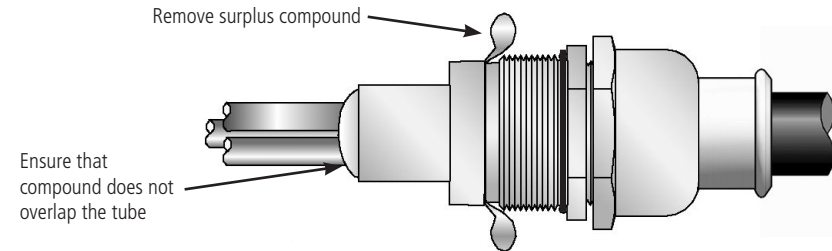
3. Remove any bedding or fillers from around the cable cores. If the cable cores have screens, these should be unravelled and then twisted together to form a single core. Wearing the protective gloves supplied, mix all of the two-part epoxy compound until it is pliable and an even colour is achieved.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

4. Fit the tube spacer (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 a drain wire is present then it should be sleeved using some heat shrink tubing which is pushed into the compound before shrinking with the application of some heat. If screens have been twisted together at stage 3, then they should be treated like a drain wire.

5. Bring the cores together again and pack more compound around them to a length and diameter sufficient to fill the compound tube, ending in a taper.



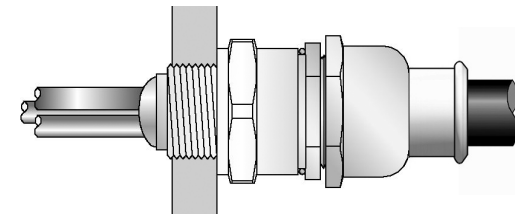
6. Pass the compound tube (3) over the conductors until the stepped end is fully located with the tube spacer (5). Pack more compound into place until the compound tube is fully filled.



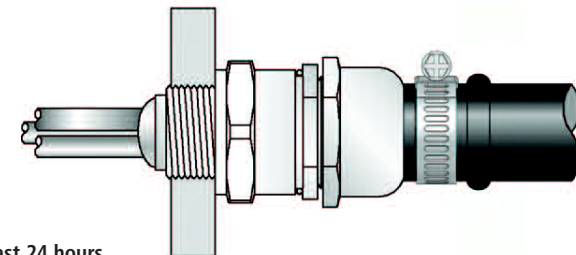
7. Slightly slacken the outer seal nut. Re-install the cable assembly into the entry item making sure the compound is not disturbed and fully tighten the main item (6) onto the entry item (2). Tighten the outer seal nut (9) until it comes to an effective stop.

This will occur when:

- A) The outer seal nut (9) has clearly engaged the cable and cannot be further tightened without the use of excessive force by the installer.
- B) The outer seal nut (9) is metal to metal with the main item (6).



8. Fit a jubilee clip over the hose, attach the hose to the hose connection and tighten the jubilee clip to secure



Do not disturb for at least 24 hours