TECHNICAL DATA

CABLE GLAND TYPE : PXSS2K/M, PXSS2K/MF INGRESS PROTECTION : IP66, IP67, IP68,

PROCESS CONTROL SYSTEM : ISO/IEC 80079-34:2011

EXPLOSIVE ATMOSPHERES CLASSIFICATION

GLAND

ATEX CERTIFICATION No. : CMI 18ATEX1325X

ATEX CERTIFICATION CODE : (Ex) I M2 Ex db I Mb, Ex eb I Mb IECEX CERTIFICATION No : IFCFx CMI 18.0182X

IECEX CERTIFICATION CODE : Ex db | Mb, Ex eb | Mb

ATEX CERTIFICATION No : CML 18ATEX1332U ATEX CERTIFICATION CODE : I M2 Ex db I Mb IECEx CERTIFICATION No : IECEx CML 18.0189U

INSTALLATION INSTRUCTIONS

IECEX CERTIFICATION CODE

Installation should only be performed by a competent person using the correct tools. Read all instructions before beginning installation.

installation about 19 per personal type pers level is IPS4 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 IP68.

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 CI 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 glands, when used for terminating braided cables are only suitable for fixed installations.

PX range of cable glands with entry threads smaller than M25 (or equivalent) size shall not be used for Group 1, 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 Ltd. on its sole responsibility declares that the equipment referred to herein conforms to the requirements of the ATEX Directive 2014/34/EU and the following standards:

EN 60079-0: 2018; EN 60079-1: 2014; EN 60079-7: 2015 + A1:2018; EN 60079-31: 2014; EN 62444: 2013; BS 6121: 1989

David Willcock - Certification Engineer (Authorised Person) CMP Products Limited, Cramlington, NE23 1WH, UK

CE 2776



INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPE PXSS2K/M & PXSS2K/MF

FOR TERMINATION OF UNARMOURED, BRAIDED CABLES AND EXTRA HARD CORD USEAGE CABLES FOR USE IN GROUP I HAZARDOUS LOCATIONS.



Cable Gland Size	Available Entry Threads (Alternate Metric Thread Lengths Available)					Number of Cores	Diameter Over Conductors	Cable Bedding Diameter	Overall Cable Diameter		Across Flats	Across Corners	Protrusion	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland
	Standard Option																	
	Metric	Min Thread Length (Metric)	NPT	Thread Length (NPT)	NPT	Max	Max	Max	Min	Max	Max	Max	Length	Size	Туре	Ordering Suffix		Weight (Kgs)
205/16	M20	15.0	1/2"	19.9	3/4"	21	8.6	8.6	3.1	8.6	30.0	33.0	56.3	20516	PXSS2K	1RA/M	PVC06	0.20
205	M20	15.0	1/2"	19.9	3/4"	21	11.7	11.7	6.1	11.7	30.0	33.0	56.3	205	PXSS2K	1RA/M	PVC06	0.20
20	M20	15.0	1/2"	19.9	3/4"	21	12.6	12.9	6.5	14.0	30.0	33.0	57.4	20	PXSS2K	1RA/M	PVC06	0.20
20L	M20	15.0	1/2"	19.9	3/4"	21	12.6	12.9	10.0	15.9	30.0	33.0	57.4	20L	PXSS2K	1RA/M	PVC06	0.20
25	M25	15.0	3/4"	20.2	1"	30	17.5	17.9	11.1	20.0	36.0	39.6	59.0	25	PXSS2K	1RA/M	PVC09	0.33
32	M32	15.0	1"	25.0	1 1/4"	38	23.6	23.9	17.0	26.3	41.0	45.1	61.6	32	PXSS2K	1RA/M	PVC10	0.39
32L	M32	15.0	1"	25.0	1 1/4"	38	23.6	23.9	20.0	27.4	41.0	45.1	61.6	32L	PXSS2K	1RA/M	PVC10	0.39
40	M40	15.0	1 1/4"	25.6	1 1/2"	59	30.0	30.3	22.0	32.1	50.0	55.0	63.4	40	PXSS2K	1RA/M	PVC13	0.56
50S	M50	15.0	1 1/2"	26.1	2"	89	36.6	36.9	29.5	38.2	55.0	60.5	66.7	50S	PXSS2K	1RA/M	PVC15	0.66
50	M50	15.0	2"	26.9	2 1/2"	115	41.0	41.3	35.6	44.0	60.0	66.0	68.7	50	PXSS2K	1RA/M	PVC18	0.73
635	M63	15.0	2"	26.9	2 1/2"	115	47.9	48.4	40.1	49.9	70.1	77.1	72.6	635	PXSS2K	1RA/M	PVC21	1.07
63	M63	15.0	2 1/2"	39.9	3"	115	53.7	54.0	47.2	55.9	75.0	82.5	71.8	63	PXSS2K	1RA/M	PVC23	1.06
755	M75	15.0	2 1/2"	39.9	3"	140	59.9	60.2	52.8	61.9	80.0	88.0	76.8	755	PXSS2K	1RA/M	PVC25	1.30
75	M75	15.0	3"	41.5	3 1/2"	140	64.2	64.2	59.1	67.9	85.0	93.5	76.8	75	PXSS2K	1RA/M	PVC27	1.30
90	M90	24.0	3 1/2"	42.8	4"	140	75.3	75.6	66.6	79.4	108.0	118.8	96.3	90	PXSS2K	1RA/M	PVC31	3.02
100	M100	24.0	4"	44.0	5"	200	83.6	83.9	76.0	90.9	123.0	135.3	88.2	100	PXSS2K	1RA/M	LSF33	4.00
						Dimens	ions are displaye	d in millimet	res unless	otherwis	e stated							

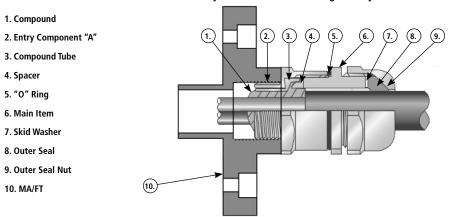


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FI451							
Certificate	Revision	Date					
IFS	10	08/19					
IECEx	6	04/19					
UL	5	=					
CSA	6	=					

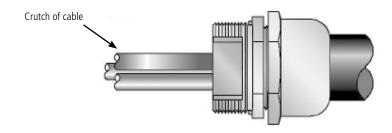
INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES PXSS2K

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



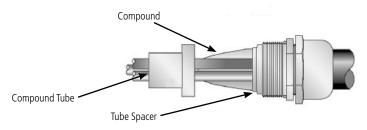
PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

- 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.

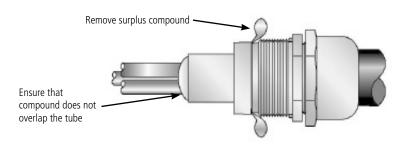


- 3. Remove any bedding or fillers from around the cable cores. If the cable cores have screens, these should be unravelled and then twisted together to form a single core. Wearing the protective gloves supplied, mix all of the two-part expoxy compound until it is pliable and an even colour is achieved. (Minimum mixing temperature 10°C / 50°F)
- 4. Fit the tube spacer (4). Seperate 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 (ensuring compound is packed between each of the cable cores) before 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).

The compound must be left undisturbed until it has cured. (At least 24 hours)

