Date Printed:

SCAN FOR INSTALLATION VIDEOS

TECHNICAL DATA

CABLE GLAND TYPE : PX2KW/M, PX2KW/MF, PX2KX/M, PX2KX/MF
INGRESS PROTECTION : IP66, IP67, IP68, Type 4X; Oil Resistant II
PROCESS CONTROL SYSTEM : BS EN ISO 9001
: ISO/IEC 80079-34:2011

EXPLOSIVE ATMOSPHERES CLASSIFICATION

ATEX CERTIFICATION No : SIRA 13ATEX1072X
ATEX CERTIFICATION CODE : Ex IM2 Ex d I Mb / Ex e I Mb
IECEx CERTIFICATION No : IEC Ex SIR.13.0027X
IECEx CERTIFICATION CODE : Ex d I Mb / Ex e I Mb
MA/FT
ATEX CERTIFICATION No : SIRA 09ATEX1034U
ATEX CERTIFICATION CODE : IM2 Ex d I Mb
IEC Ex CERTIFICATION No : IEC Ex SIR.09.0024U
IEC Ex CERTIFICATION CODE : Ex d I Mb

INSTALLATION INSTRUCTIONS

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

SPECIAL CONDITIONS FOR SAFE USE

1. The cable glands cable, when used for terminating braided cables, are only suitable for fixed installations. Cables must be effectively clamped to prevent twisting and pulling.
2. Glands with entry threads smaller than M25 (or equivalent) shall not be used in 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

Number of turns to tighten	Outer Seal Tightening Guide												
	GLAND SIZE												
	20S16	20S	20	25S	25	32	40	50S	50	63S	63	75S	75
	CABLE DIAMETER												
0.5	13.2	15.9	20.9	22.0	26.2	33.9							
1	12.5	15.3	20.0	21.2	25.4	32.9	40.4	46.7	52.8	59.2	65.9	72.1	78.5
1.5	11.9	14.7	19.0	20.4	24.6	31.9	39.0	45.4	51.4	57.7	64.6	70.6	77.2
2	11.2	14.2	18.1	19.6	23.8	30.8	37.6	44.1	50.0	56.2	63.4	69.2	75.9
2.5	10.5	13.6	17.2	18.8	23.0	29.8	36.2	42.9	48.7	54.7	62.1	67.7	74.6
3	9.8	13.0	16.2	18.0	22.2	28.8	34.8	41.6	47.3	53.2	60.9	66.3	73.3
3.5	9.2	12.4	15.3	17.2	21.4	27.8	33.5	40.3	45.9	51.6	59.6	64.8	71.9
4	8.5	11.8	14.4	16.4	20.6	26.8	32.1	39.0	44.5	50.1	58.4	63.4	70.6
4.5	7.8	11.2	13.4	15.6	19.8	25.7	30.7	37.8	43.2	48.6	57.1	61.9	69.3
5	7.1	10.7	12.5	14.8	19.0	24.7	29.3	36.5	41.8	47.1	55.9	60.5	68.0
5.5	6.5	10.1	12.0	14.0	18.2	23.7	27.9	35.2	40.4	45.6	54.6	59.0	66.7
6	5.8	9.5											

Cable Gland Size	Available Entry Threads (Alternate Metric Thread Lengths Available)					Maximum Number Of Cores	Diameter Over Conductors	Cable Bedding Diameter	Overall Cable Diameter		Pliable Wire or Tape Armour Range Diameter		Armour Wire Diameter		Across Flats	Across Corners	Protrusion Length	Ordering Reference PX2KX/M (Brass Metric)**		Ordering Reference PX2KW/M (Brass Metric)**	Shroud	Cable Gland Weight (Kgs)
	Standard				Option																	
	Metric	Thread Length (Metric)	NPT	Thread Length (NPT)	NPT				Min	Max	Min	Max	Min	Max	Max	Max						
20S	M20	15.0	1/2"	19.9	3/4"	11	11.7	11.7	9.5	15.9	0.8	7/0.45	0.8	1.25	30.5	33.6	62.0	20S	PX2KW/M	1RA	PVC06	0.230
20	M20	15.0	1/2"	19.9	3/4"	11	12.6	12.9	12.5	20.9	0.8	7/0.45	0.8	1.25	30.5	33.6	63.0	20	PX2KW/M	1RA	PVC06	0.240
25S	M25	15.0	3/4"	20.2	1"	21	17.5	17.9	14.0	22.0	1.25	7/0.45	1.25	1.6	37.5	41.3	69.5	25S	PX2KW/M	1RA	PVC09	0.370
25	M25	15.0	3/4"	20.2	1"	21	17.5	17.9	18.2	26.2	1.25	7/0.45	1.25	1.6	37.5	41.3	69.5	25	PX2KW/M	1RA	PVC09	0.370
32	M32	15.0	1"	25.0	1 1/4"	38	23.6	23.9	23.7	33.9	1.6	7/0.45	1.6	2.0	46.0	50.6	75.0	32	PX2KW/M	1RA	PVC11	0.570
40	M40	15.0	1 1/4"	25.6	1 1/2"	59	30.0	30.3	27.9	40.4	1.6	7/0.71	1.6	2.0	55.0	60.5	75.0	40	PX2KW/M	1RA	PVC15	0.800
50S	M50	15.0	1 1/2"	26.1	2"	89	36.6	36.9	35.2	46.7	2.0	7/0.71	2.0	2.5	60.0	66.0	77.0	50S	PX2KW/M	1RA	PVC18	0.900
50	M50	15.0	2"	26.9	2 1/2"	89	41.0	41.3	40.4	53.0	2.0	7/0.71	2.0	2.5	70.1	77.1	77.0	50	PX2KW/M	1RA	PVC21	1.190
63S	M63	15.0	2"	26.9	2 1/2"	115	47.9	48.4	45.6	59.4	2.0	7/0.71	2.0	2.5	75.0	82.5	79.7	63S	PX2KW/M	1RA	PVC23	1.390
63	M63	15.0	2 1/2"	39.9	3"	115	53.7	54.0	54.6	65.8	2.0	7/0.71	2.0	2.5	80.0	88.0	80.3	63	PX2KW/M	1RA	PVC25	1.410
75S	M75	15.0	2 1/2"	39.9	3"	140	59.9	60.2	59.0	72.0	2.0	7/0.71	2.0	2.5	90.0	99.0	86.8	75S	PX2KW/M	1RA	PVC28	2.090
75	M75	15.0	3"	41.5	3 1/2"	140	64.2	64.2	66.7	78.4	2.5	7/0.71	2.5	3.0	100.0	110.0	88.3	75	PX2KW/M	1RA	PVC30	2.540

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

Examples: 32PX2KWM1RA534 = Nickel Plated Brass 1-1/4" NPT, 50SPX2KWM1RA035 = Brass 1-1/2" NPT, 25PX2KWM1RA432 = Stainless Steel 3/4" NPT,20PX2KWM1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

Cable Gland Selection Table

** Codes shown are for PX2KW/M & PXWKX/M glands, for flange mounted glands amend the ordering references as follows - PX2KW/MF or PX2KX/MF add "F" e.g. 20PX2KW1RA/MF, 20PX2KX1RA/MF

CMP Products Limited hereby declare that the equipment referred to herein conforms to the requirements of the ATEX Directive 2014/34/EU and the following standards:

EN60079-0:2012, EN60079-1:2007, EN60079-7:2007, EN60079-15:2010, EN60079-31:2009, BS 6121:1989, EN62444:2013

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24th June 2015

CE 0518
Notified Body: Sira Certification Servi

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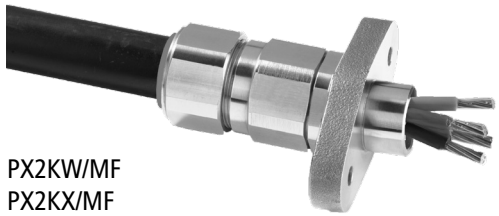
INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES PX2KW/M, PX2KW/MF, & PX2KX/M, PX2KX/MF

FOR TERMINATION OF CABLES WITH WIRE BRAID, TAPE ARMOUR (STA/DSTA), STRIP ARMOUR, PLIABLE WIRE (PX2KX/M & MF) & SINGLE WIRE ARMOUR (SWA) (PX2KW/M & MF). FOR USE IN GROUP I MINING LOCATIONS.

INCORPORATING EU DECLARATION OF CONFORMITY TO DIRECTIVE 2014/34/EU

CABLE GLAND TYPES PX2KW/M & PX2KW/MF PX2KX/M & PX2KX/MF



PX2KW/MF
PX2KX/MF

PX2KW/M
PX2KX/M

PX2KW/M & PX2KX/M
- PX2KW/PX2KX Gland for Mining Applications

PX2KW/MF & PX2KX/MF
- PX2KW/M & PX2KX/M Assembly with Flange Mount Type MA/FT

CMP

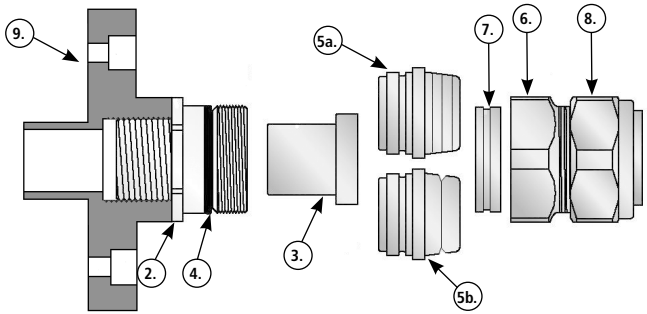
Logo's shown for illustration purposes only. Please check certification for details

CMP Document No. F452 Issue 9

INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES: PX2KW/M, PX2KW/MF, & PX2KX/M, PX2KX/MF

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

1. Compound
2. Entry Component
3. Compound Tube
4. "O" Ring
5a. Grooved Armour Cone (XYZ)
5b. Stepped Armour Cone (W)
6. Body
7. AnyWay Clamping Ring
8. Outer Seal Nut Assembly
9. Optional Flanged Adaptor

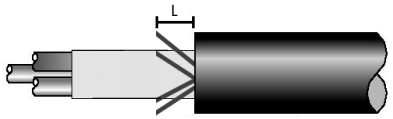


PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

1. The illustration shows two armour cones, the grooved armour cone (5a) is suitable for Strip Armour, Tape Armour and Braided Cables, and the stepped cone (5b) is suitable for Wire Armour (SWA) cables. The PX2KX/M & PX2KX/MF gland only has one cone (5a) and the PX2KW/M & PX2KW/MF only has one cone (5b).

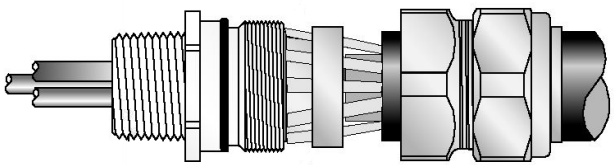
2. Separate the gland components by removing the body and outer seal nut assembly. Pass the body and outer seal nut assembly (6),(8), and the AnyWay clamping ring (7) over the cable, outer seal nut first.

3. Prepare the cable by stripping back the outer sheath and braid / armour to suit the equipment. Expose the braid or armour further so that it can be formed around the armour cone by cutting back the outer sheath by a length "L". This length varies slightly depending upon cable diameter, but typical values are shown below. The inner sheath should be long enough to just pass through the armour cone when installed. On lead sheathed cables, the lead sheath should be long enough to just pass through the armour cone when installed.



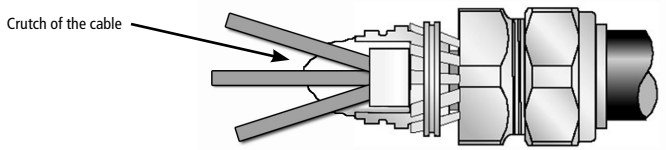
CABLE GLAND SIZE	20S/16, 20S, 20	25S, 25, 32, 40	50S, 50, 63S, 63	75S, 75, 90
CABLE STRIP LENGTH "L"	12 mm (0.472 inches)	15 mm (0.591 inches)	18 mm (0.709 inches)	20 mm (0.787inches)

4. For direct make-off, fit the entry item to the equipment. Insert the armour cone (5a or 5b into the entry item (2) and pass the cable through them until the braid or armour contacts the cone and make sure that it is evenly spaced around it. Tighten the body (6) to lock the braid or armour and then slacken and remove the body again, withdrawing the cable with it. (On PB variants the earthing device automatically makes contact with the lead sheath).

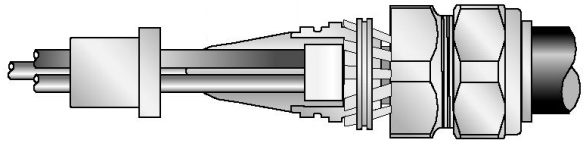


5. Remove any bedding or fillers from around the cable cores. If the cable cores have screens, these should be unravelled and then twisted together to form a single core. Wearing the protective gloves supplied, mix all of the two-part epoxy compound (1) until it is pliable and an even colour is achieved (minimum mixing temperature 10°C).

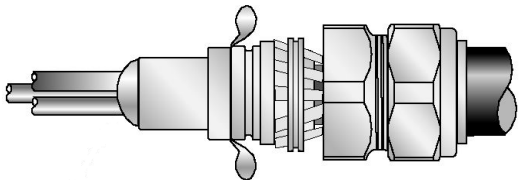
6. Separate the cores and apply the compound to the crutch of the cable for a distance of about 6mm and pack into place.
If a drain wire is present then it should be sleeved using some heat shrink tubing which is pushed into the compound before shrinking with the application of some heat.
If screens have been twisted together at stage 5, also be sleeved using heat shrink sleeving.



7. 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.



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



7. Re-install the cable assembly into the entry item making sure that the compound is not disturbed and fully tighten the body (6) onto the entry item (2).

Only using finger pressure, tighten the outer seal nut assembly (8) until light resistance to tightening is met.

Then either use the outer seal tightening guide tape or table on the rear of the page to determine how much further to tighten the seal using a spanner (using the outer seal tightening guide is recomended).

Wrap the outer seal tightening guide tape around the cable to show the amount of spanner turns needed (as shown here). Make sure the correct side of the outer seal tightening guide tape is used depending on the cable gland size.

Optional flange adaptor