



# INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPE PXRC-REX

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]

## CABLE GLAND TYPE PXRC-REX



Cable Gland Selection Table

**TECHNICAL DATA**  
CABLE GLAND TYPE : PXRC-REX  
INGRESS PROTECTION : IP66  
PROCESS CONTROL SYSTEM : BS EN ISO 9001  
: ISO/IEC 80079-34:2011

### EXPLOSIVE ATMOSPHERES CLASSIFICATION

AR CERTIFICATION No : SIRAT3ATEX1072X  
ATEX CERTIFICATION CODE : II 2G 1D Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da  
IECEx CERTIFICATION No : IECEx SIR.13.0027X  
IECEx CERTIFICATION CODE : Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da

### 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.

### SPECIAL CONDITIONS FOR SAFE USE

1. When assembled to flexible conduit, the conduit must be effectively clamped to prevent twisting and pulling.

### 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 \*

Cable Gland Size	Available Entry Threads (Alternate Metric Thread Lengths Available)						Max Number Of Cores	Standard Female Connection Thread	Diameter Over Conductors	Cable Bedding Diameter	Overall Cable Diameter	Across Flats	Across Corners	Protusion Length	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Standard				Option														
	Metric	Thread Length (Metric)	NPT	Thread Length (NPT)	NPT														
20	M20	15.0	1/2"	19.9	3/4"	11	M20	12.6	12.9	13.9	30.0	33.0	45.9	20	PXRCREX	1RA	PVC06	0.170	
25	M25	15.0	3/4"	20.2	1"	21	M25	17.5	17.9	19.9	41.0	45.1	53.6	25	PXRCREX	1RA	PVC09	0.330	
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	PXRCREX	1RA	PVC10	0.320	
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	PXRCREX	1RA	PVC13	0.420	
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	PXRCREX	1RA	PVC15	0.570	
50	M50	15.0	2"	26.9	2 1/2"	89	M50	41.0	41.3	44.2	60.0	66.0	64.0	50	PXRCREX	1RA	PVC18	0.610	
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	PXRCREX	1RA	PVC21	0.940	
63	M63	15.0	2 1/2"	39.9	3"	115	M63	53.7	54.0	58.0	75.0	82.5	64.6	63	PXRCREX	1RA	PVC23	0.890	
75S	M75	15.0	2 1/2"	39.9	3"	140	M75	59.9	60.2	62.4	84.0	92.4	71.7	75S	PXRCREX	1RA	PVC27	1.290	
75	M75	15.0	3"	41.5	3 1/2"	140	M75	64.3	64.2	68.1	85.0	93.5	71.2	75	PXRCREX	1RA	PVC27	1.160	
90	M90	24.0	3 1/2"	42.8	4"	200	M90	75.3	75.6	80.1	108.0	118.8	87.3	90	PXRCREX	1RA	PVC31	2.630	
*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 male and/or female options please add the following digits to the thread options table above; 12" = 31, 34" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39, 4" = 310 (Brass requires prefix "0") When NPT male & Metric female product option is required, please add the following digits to the material and NPT male suffix (see Thread Options table above); M20 = 01, M25 = 02, M32 = 03, M40 = 04, M50 = 05, M63 = 06, M75 = 07, M90 = 08 (Brass requires prefix "0")																			
Examples: 32PXRCREX1RA53 = Nickel Plated Brass M32 male x 1" NPT female, 20S16PXRCREX1RA031 = Brass M20 male x 1/2" NPT female, 25PXRCREX1RA43202 = Stainless Steel "4" NPT male x M25 female, 20PXRCREX1RA5 = Nickel Plated Brass M20 male & female																			
Dimensions are displayed in millimetres unless otherwise stated																			

\*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass "S"; 316 Grade Stainless Steel "4"; Copper Free Aluminium "1"

For NPT male and/or female options please add the following digits to the material suffix (See Thread Options table above); 1/2" = 31, 3/4" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39, 4" = 310 (Brass requires prefix "0")

When NPT male & Metric female product option is required, please add the following digits to the material and NPT male suffix (See Thread Options table above); M20 = 01, M25 = 02, M32 = 03, M40 = 04, M50 = 05, M63 = 06, M75 = 07, M90 = 08 (Brass requires prefix "0")

Examples: 32PXRCREX1RA53 = Nickel Plated Brass M32 male x 1" NPT female; 20S16PXRCREX1RA031 = Brass M20 male x 1/2" NPT female; 25PXRCREX1RA43202 = Stainless Steel 3/4" NPT male x M25 female; 20PXRCREX1RA5 = Nickel Plated Brass M20 male & female

Dimensions are displayed in millimetres unless otherwise stated

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 the following standards:-

EN60079-0:2012, EN60079-1:2007, EN60079-7:2007, EN60079-15:2010, EN60079-31:2009, BS6121:1989, EN62444:2013, EN61241-0:2004, EN61241-1:2004.

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

CE 0518

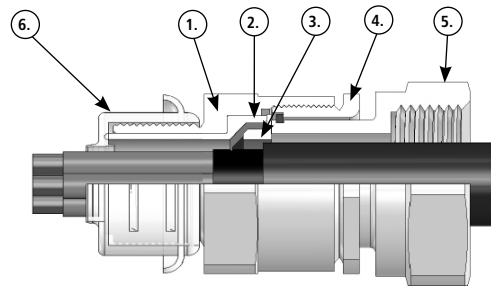
Notified Body: Sira Certification Service, Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, England.

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INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES PXRC-REX

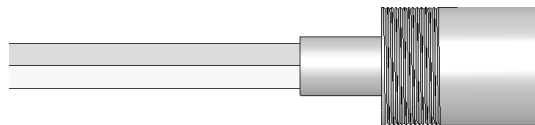
CABLE GLAND COMPONENTS - It is not necessary to dismantled the cable gland any further than illustrated below

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



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. If the installation involves a cable, remove any bedding or fillers from around the cable cores.

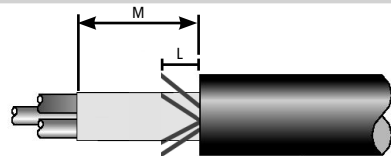
If the cable cores have braid screens, these should be unravelled and then twisted together to form a single core if required.

If the cable has individual and / or overall foil screens, the foils must be removed completely and the drain wire(s) passed through insulation tubing. NOTE: To ensure a proper seal, the drain wire should be exposed for up to 5mm next to the resin dam (so that the resin can bond to the drain wire elements). If heat shrink tubing is used it should be shrunk onto the drain wire.

Electrical tape MUST be wrapped around the tips of the cable cores to prevent damage to the resin dam when the cable is installed.

If the installation uses only cores (i.e. no cable sheath) then tape must be wrapped around the cores at the position at which it will engage the resin dam.

Use the length of the gland as a guide to position the tape as shown above (guide length "L").



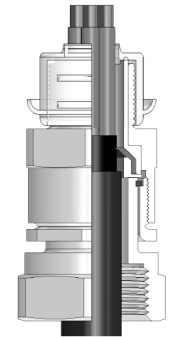
CABLE GLAND SIZE	205/16, 205, 20	255, 25, 32, 40	505, 50, 635, 63	755, 75, 90
CABLE STRIP LENGTH "L"	12 mm (0.472 inches)	15 mm (0.591 inches)	18 mm (0.709 inches)	20 mm (0.787 inches)
CABLE BEDDING "M"	35	40	42	50



3. Pass the cable/cores through the gland so that the cable sheath / the tape around the cores (if a cable is not being used) just passes through the resin dam. (Use guide length "L" to determine how far to push the cable into the gland.)

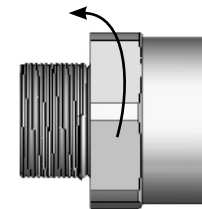
Secure the Entry Item assembly to the Running Coupling (5) by tightening Nut (4).

Fit the Thread Shield (6) and hold the assembly upright.

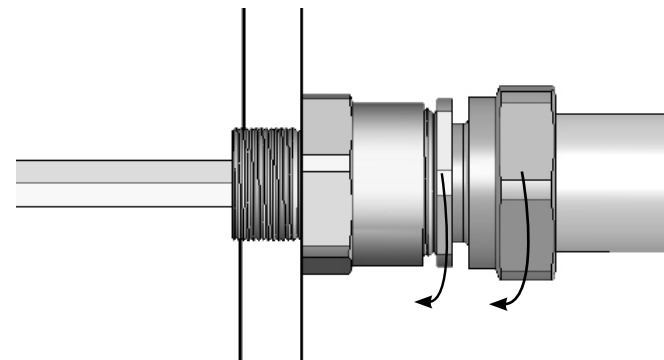


5. Refer to 'RapidEx Resin' assembly instructions to fill the connector Compound Tube with the required amount of resin. The resin should not be mixed or applied at temperatures below 5°C (40°F). If the general ambient temperature is below 5°C (40°F) please follow the instructions on CMP TDS 613 before proceeding. (Available on CMP website)

6. Once the resin has cured, remove the Thread Shield (6) and slacken the nut (4). Fit the Entry Item (1) into the equipment.



7. Attach the conduit to the Running Coupling (5) and fully tighten.



8. Finally, fully tighten the nut (4), into the entry component (1).