



INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES CWe & CXe

FOR TERMINATION OF CABLES WITH WIRE BRAID USING GLAND TYPE CXe OR SINGLE WIRE ARMOUR (SWA) USING GLAND TYPE CWe FOR USE IN EXPLOSIVE ATMOSPHERES.

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

CABLE GLAND TYPES CWe & CXe



CWe = SWA, AWA
CXe = Braid, Tape, etc armour



CMP Document No. F1438 Issue 8, IEC Issue 7

TECHNICAL DATA

CABLE GLAND TYPE : CWe, CXe
INGRESS PROTECTION : IP66
DESIGN STANDARDS : BS 6121:1989, EN 62444, IEC 62444
PROCESS CONTROL SYSTEM : BS EN ISO 9001
: ISO/IEC 80079-34:2011

EXPLOSIVE ATMOSPHERES CLASSIFICATION

ATEX CERTIFICATION No : SIRA13ATEX1070X
ATEX CERTIFICATION CODE : II 2G TD / Ex e IIC Gb / Ex ta IIIC Da
IECEx CERTIFICATION No : IECEx SIR.13.0025X
IECEx CERTIFICATION CODE : Ex e IIC Gb / Ex ta IIIC Da

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 glands when used for terminating braided cables are only suitable for fixed installations. Cables must be efficiently clamped to prevent pulling or twisting.

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	Metric	Thread Length (Metric)	Cable Bedding Diameter	Overall Cable Diameter		Armour Range				Across Flats	Across Corners	Protusion Length	CW Ordering Reference (Brass Metric)	CX Ordering Reference (Brass Metric)	Shroud	Cable Gland Weight (Kgs)
				Grooved Cone (X)		Stepped Cone (W)										
				Min	Max	Min	Max									
20s16	M20	15.0	8.7	6.1	13.1	0.8	1.25	0.3	1.0	24.0	26.4	48.0	20S16CWE1RA	20S16CXE1RA	PVC04	0.10
20S	M20	15.0	11.7	9.5	15.9	0.8	1.25	0.3	1.0	24.0	26.4	48.0	20SCWE1RA	20SCXE1RA	PVC04	0.10
20	M20	15.0	14.0	12.5	20.9	0.8	1.25	0.4	1.0	30.5	33.6	48.0	20CWE1RA	20CXE1RA	PVC06	0.15
25S	M25	15.0	20.0	14.0	22.0	1.25	1.6	0.4	1.2	37.5	41.3	56.0	25SCWE1RA	25SCWE1RA	PVC09	0.22
25	M25	15.0	20.0	18.2	26.2	1.25	1.6	0.4	1.2	37.5	41.3	56.0	25CWE1RA	25CWE1RA	PVC09	0.22
32	M32	15.0	26.0	23.7	33.9	1.6	2.0	0.4	1.2	46.0	50.6	54.0	32CWE1RA	32CWE1RA	PVC11	0.31
40	M40	15.0	32.2	27.9	40.4	1.6	2.0	0.4	1.6	55.0	60.5	58.0	40CWE1RA	40CWE1RA	PVC15	0.45
50S	M50	15.0	38.2	35.2	46.7	2.0	2.5	0.4	1.6	60.0	66.0	61.0	50SCWE1RA	50SCWE1RA	PVC18	0.57
50	M50	15.0	44.1	40.4	53.0	2.0	2.5	0.6	1.6	70.1	77.1	60.0	50CWE1RA	50CWE1RA	PVC21	0.75
63S	M63	15.0	50.0	45.6	59.4	2.0	2.5	0.6	1.6	75.0	82.5	74.0	63SCWE1RA	63SCWE1RA	PVC23	1.04
63	M63	15.0	56.0	54.6	65.8	2.0	2.5	0.6	1.6	80.0	88.0	71.0	63CWE1RA	63CWE1RA	PVC25	1.02
75S	M75	15.0	62.0	59.0	72.0	2.0	2.5	0.6	1.6	90.0	99.0	86.0	75SCWE1RA	75SCWE1RA	PVC28	1.79
75	M75	15.0	64.2	66.7	78.4	2.5	3.0	0.6	1.6	100.0	110.0	82.0	75CWE1RA	75CWE1RA	PVC30	2.09
90	M90	24.0	78.6	76.2	90.3	3.15	4.0	0.8	1.6	114.3	125.7	95.0	90CWE1RA	90CWE1RA	PVC32	3.04
100	M100	24.0	91.0	86.1	101.4	3.15	4.0	0.8	1.6	123.0	135.3	95.0	100CWE1RA	100CWE1RA	LSF33	3.13
115	M115	24.0	98.0	101.5	110.2	3.15	4.0	0.8	1.6	133.4	146.7	107.5	115CWE1RA	115CWE1RA	LSF34	4.48
130	M130	24.0	115.0	110.2	123.2	3.15	4.0	0.8	1.6	152.4	167.6	110.0	130CWE1RA	130CWE1RA	LSF35	5.76

*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 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; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32CWE1RA534 = Nickel Plated Brass 1-1/4" NPT, 50SCWE1RA035 = Brass 1-1/2" NPT, 25CWE1RA432 = Stainless Steel 3/4" NPT, 20CWE1RAS = Nickel Plated Brass M20
Dimensions are displayed in millimetres unless otherwise stated

NOTE: *CMP SOLO LSF Halogen Free Shrouds also available for the full range on request. + Alternative armour clamping range available for non-standard armour sizes.
Marine Approvals including Lloyds & ABS are also available from CMP Products.

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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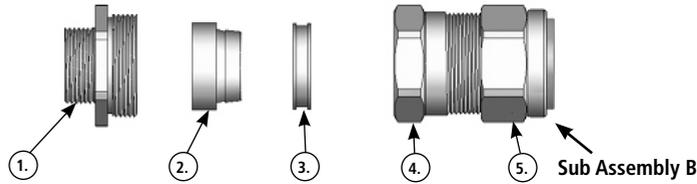


Logo's shown for illustration purposes only. Please check certification for details

INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES CWe & CXe

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

- 1. Entry Component
- 2. Detachable Armour Cone
- 3. AnyWay Clamping Ring
- 4. Body
- 5. Outer Seal Nut



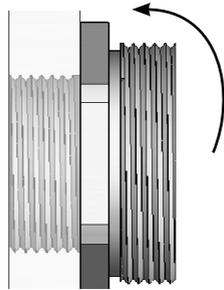
PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

1. Separate components (1), (2) and (3) from Sub-Assembly B. If required, fit a shroud over the cable outer sheath. Prepare the cable by removing the cable outer sheath and the braid/armour to suit the geometry of the equipment. Remove a further 18mm (max) of outer sheath to expose the armour. If applicable remove any tapes or wrappings to expose the inner sheath.

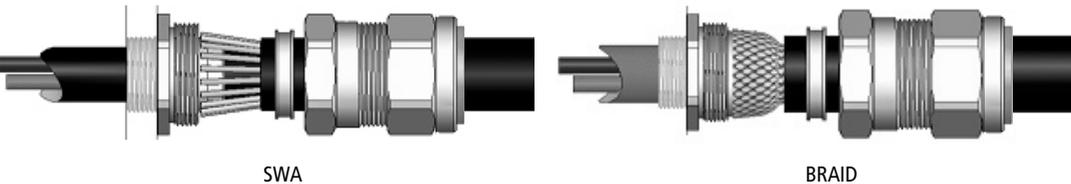
NOTE: On maximum size cables the clamping ring may only pass over the armour.



2. Secure the Entry Component (1) into the equipment as indicated.

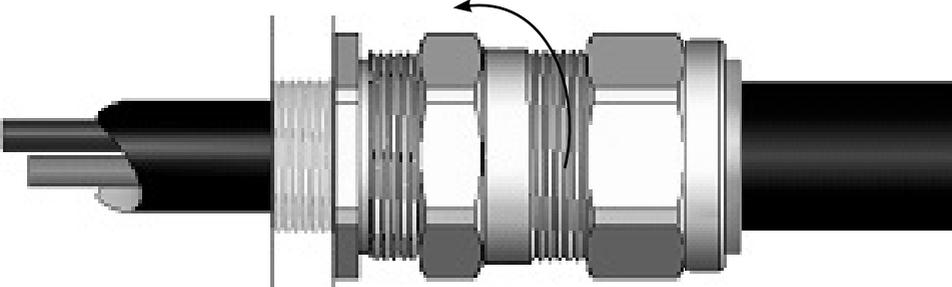


3. Locate the Detachable Armour Cone (2) into the Entry Component. Pass the cable through the entry item and evenly space the braid/armour around the cone.



4. While continuing to push the cable forward to maintain contact between the braid armour and the Cone (2), tighten the Body (4) by hand until the AnyWay Clamping Ring (3) is felt to have engaged the braid/armour.

Hold the Entry Component (1) with a spanner and tighten the Body (4) using a spanner until all available threads are used, the body and entry item are metal to metal and cannot be tightened further.



5. Only using finger pressure, tighten the outer seal nut assembly (5) 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 recommended).

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.

