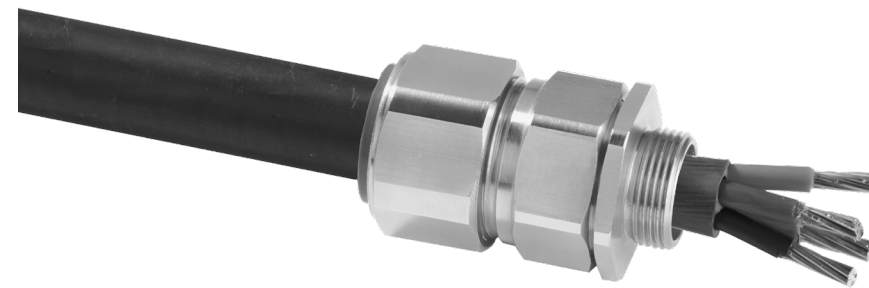




INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES CW & CX

FOR TERMINATION OF CABLES WITH WIRE BRAID, TAPE ARMOUR (STA/DSTA), STRIP ARMOUR USING GLAND TYPE CX OR SINGLE WIRE ARMOUR (SWA) USING GLAND TYPE CW.

CABLE GLAND TYPES CW & CX



CW = SWA, AWA
CX = Braid, Tape, etc armour



TECHNICAL DATA

CABLE GLAND TYPE	: CW, CX
INGRESS PROTECTION	: IP66
DESIGN STANDARDS	: BS 6121:1989, IEC 62444, EN 62444
PROCESS CONTROL SYSTEM	: BS EN ISO 9001

INSTALLATION INSTRUCTIONS

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

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)		Cable Bedding Diameter	Overall Cable Diameter		CW Armour Range		CX Armour Range		Across Flats	Across Corners	Protusion Length	Combined Ordering Reference (*Brass Metric)				Shroud	Cable Gland Weight (Kgs)
	Metric	Thread Length (Metric)		Min	Max	Min	Max	Min	Max				Size	Type (CW)	Type (CX)	Ordering Suffix		
	20S16	M20	10.0	8.7	6.1	13.1	0.8	1.25	0.3	1.0	24.0	26.4	48.0	20S16	CW	CX	1RA	PVC04
20S	M20	10.0	11.7	9.5	15.9	0.8	1.25	0.3	1.0	24.0	26.4	48.0	20S	CW	CX	1RA	PVC04	0.140
20	M20	10.0	14.0	12.5	20.9	0.8	1.25	0.4	1.0	30.5	33.6	48.0	20	CW	CX	1RA	PVC06	0.180
25S	M25	10.0	20.0	14.0	22.0	1.25	1.6	0.4	1.2	37.5	41.3	56.0	25S	CW	CX	1RA	PVC09	0.257
25	M25	10.0	20.0	18.2	26.2	1.25	1.6	0.4	1.2	37.5	41.3	56.0	25	CW	CX	1RA	PVC09	0.257
32	M32	10.0	26.0	23.7	33.9	1.6	2.0	0.4	1.2	46.0	50.6	54.0	32	CW	CX	1RA	PVC11	0.376
40	M40	15.0	32.2	27.9	40.4	1.6	2.0	0.4	1.6	55.0	60.5	58.0	40	CW	CX	1RA	PVC15	0.630
50S	M50	15.0	38.2	35.2	46.7	2.0	2.5	0.4	1.6	60.0	66.0	61.0	50S	CW	CX	1RA	PVC18	0.757
50	M50	15.0	44.1	40.4	53.0	2.0	2.5	0.6	1.6	70.1	77.1	60.0	50	CW	CX	1RA	PVC21	0.862
63S	M63	15.0	50.0	45.6	59.4	2.0	2.5	0.6	1.6	75.0	82.5	74.0	63S	CW	CX	1RA	PVC23	1.390
63	M63	15.0	56.0	54.6	65.8	2.0	2.5	0.6	1.6	80.0	88.0	71.0	63	CW	CX	1RA	PVC25	1.360
75S	M75	15.0	62.0	59.0	72.0	2.0	2.5	0.6	1.6	90.0	99.0	86.0	75S	CW	CX	1RA	PVC28	2.307
75	M75	15.0	64.2	66.7	78.4	2.5	3.0	0.6	1.6	100.0	110.0	82.0	75	CW	CX	1RA	PVC30	2.909
90	M90	24.0	78.6	76.2	90.3	3.15	4.0	0.8	1.6	114.3	125.7	95.0	90	CW	CX	1RA	PVC32	3.858
100	M100	24.0	91.0	86.1	101.4	3.15	4.0	0.8	1.6	123.0	135.3	95.0	100	CW	CX	1RA	LSF33	4.958
115	M115	24.0	98.0	101.5	110.2	3.15	4.0	0.8	1.6	133.4	146.7	107.5	115	CW	CX	1RA	LSF34	5.058
130	M130	24.0	115.0	110.2	123.2	3.15	4.0	0.8	1.6	152.4	167.6	110.0	130	CW	CX	1RA	LSF35	6.158

*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'

Examples: 20CW1RA5 = Nickel Plated Brass M20, 50CW1RA = Brass 50mm, 25CW1RA4 = Stainless Steel 25mm

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.



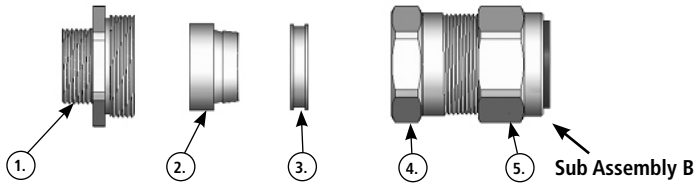
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INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES CW & CX

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



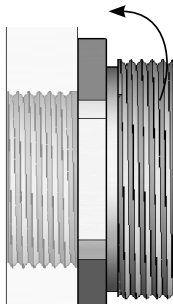
PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

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.

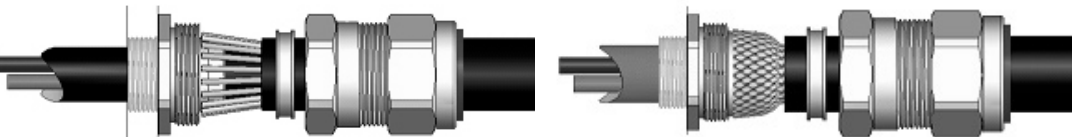
NOTE: On maximum size cables the clamping ring may only pass over the armour.



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.

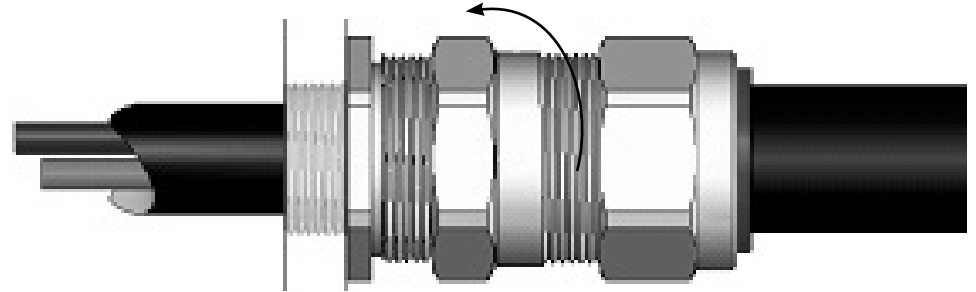


SWA

BRAID

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.

