



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 CIEL & CX CIEL



CW CIEL = SWA Armour
CX CIEL = Braid, Tape, etc armour



TECHNICAL DATA

CABLE GLAND TYPE	: CW, CX
INGRESS PROTECTION	: IP66
DESIGN STANDARDS	: BS 6121:1989, EN 62444:2013
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	Entry Thread	Thread Length	Cable Bedding Diameter	Overall Cable Diameter		Armour Range		Across Flats	Across Corners	Protursion Length	Nominal Radius Dimension		CIEL Earth Bolt Size	Earth Fault Current Rating (kA)	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)
				Max	Min	Max	Min				Max	Max			"H"	"G"	Size	
20S	M20	10.0	11.7	9.5	15.9	0.8	1.25	24.0	26.4	48.0	28.6	38.6	M8	26.0	20S	CWC	1RA	0.195
20	M20	10.0	14.0	12.5	20.9	0.8	1.25	30.5	33.6	48.0	31.8	41.3	M8	26.0	20	CWC	1RA	0.276
25S	M25	10.0	20.0	14.0	22.0	1.25	1.6	37.5	41.3	56.0	38.1	50.8	M8	26.0	25S	CWC	1RA	0.436
25	M25	10.0	20.0	18.2	26.2	1.25	1.6	37.5	41.3	56.0	38.1	50.8	M8	26.0	25	CWC	1RA	0.435
32	M32	10.0	26.2	23.7	33.9	1.6	2.0	46.0	50.6	54.0	41.3	54.0	M8	26.0	32	CWC	1RA	0.506
40	M40	15.0	32.2	27.9	40.4	1.6	2.0	55.0	60.5	58.0	50.8	68.3	M10	26.0	40	CWC	1RA	0.802
50S	M50	15.0	38.2	35.2	46.7	2.0	2.5	60.0	66.0	61.0	57.2	74.6	M12	43.0	50S	CWC	1RA	0.883
50	M50	15.0	44.1	40.4	53.0	2.0	2.5	70.1	77.1	60.0	60.3	79.4	M12	43.0	50	CWC	1RA	1.088
63S	M63	15.0	50.0	45.6	59.4	2.0	2.5	75.0	82.5	74.0	70.0	90.5	M12	43.0	63S	CWC	1RA	1.636
63	M63	15.0	56.0	54.6	65.8	2.0	2.5	80.0	88.0	71.0	70.0	90.5	M12	43.0	63	CWC	1RA	1.597
75S	M75	15.0	62.0	59.0	72.0	2.0	2.5	90.0	99.0	86.0	76.2	98.5	M12	43.0	75S	CWC	1RA	2.310
75	M75	15.0	68.0	66.7	78.4	2.5	3.0	100.0	110.0	82.0	82.6	108.0	M12	43.0	75	CWC	1RA	2.717
90	M90	24.0	79.0	76.2	90.3	3.15	4.0	114.3	125.7	95.0	95.3	107.1	M12	43.0	90	CWC	1RA	4.417
100	M100	24.0	90.0	86.1	101.4	3.15	4.0	123.0	135.3	95.0	101.6	139.7	M12	43.0	100	CWC	1RA	4.820
115	M115	24.0	98.0	101.5	110.2	3.15	4.0	133.4	146.7	107.5	112.0	138.5	M12	43.0	115	CWC	1RA	6.191
130	M130	24.0	115.0	110.2	123.2	3.15	4.0	152.4	167.6	110.0	112.0	138.5	M12	43.0	130	CWC	1RA	8.388

*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 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: 32CWC1RA534 = Nickel Plated Brass 1-1/4" NPT, 50SCWC1RA035 = Brass 1-1/2" NPT, 25CWC1RA432 = Stainless Steel 3/4" NPT, 20CWC1RA5 = 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.



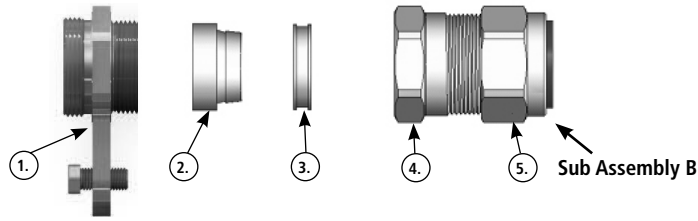
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CABLE GLAND COMPONENTS - It is not necessary to dismantled the cable gland any further than illustrated below

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



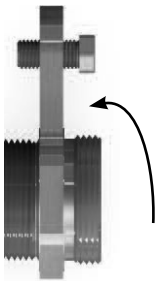
PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

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.

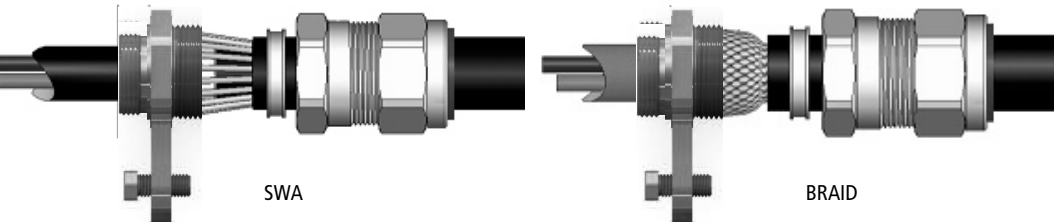
NOTE: On maximum size cables the clamping ring may only pass over the armour.



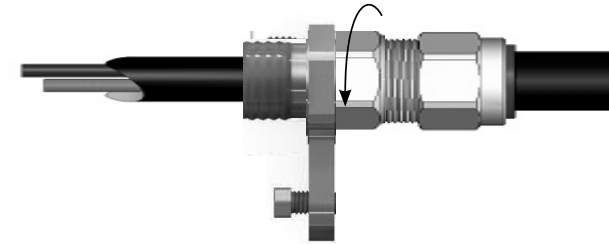
2. Secure the Entry Component (1) into the equipment as indicated.



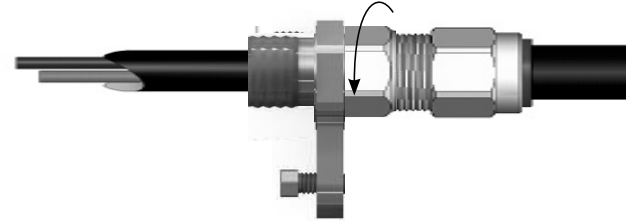
3. Locate the Detachable Armour Cone (2) into the Entry Component. Pass the cable through the entry item and evenly space the braid/armour around the cone.



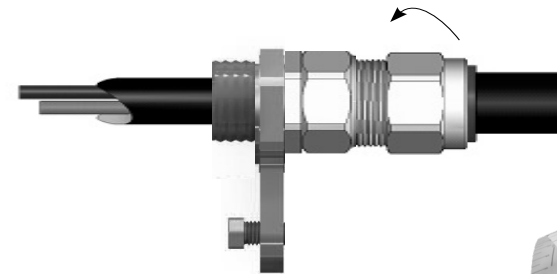
4. While continuing to push the cable forward to maintain contact between the braid armour and the Cone (2), tighten the Body (4) by hand until the AnyWay Clamping Ring (3) is felt to have engaged the braid/armour. Hold the Entry Component (1) with a spanner and tighten the Body (4) using a spanner until all available threads are used.



5. Ensure the Entry Item (1) and Body (4) are fully tightened together



6. Tighten the Outer Seal Nut (5) until it comes to an effective stop. This will occur when:-
 A) The Outer Seal Nut (5) has clearly engaged the cable and cannot be further tightened without the use of excessive force by the installer.
 B) The Outer Seal Nut (5) is metal to metal with the body of the gland (4).



7. Only using finger pressure, Connect the earth cable to the Earth Bolt (6) and tighten. 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.

