



INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES BWL & BWL CIEL

FOR TERMINATION OF CABLES WITH SINGLE WIRE ARMOUR (SWA) FOR INDOOR USE

CABLE GLAND TYPES BWL & BWL CIEL

TECHNICAL DATA

CABLE GLAND TYPE : BWL, BWL CIEL
DESIGN STANDARDS : BS6121:1989
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 | Shroud *

Cable Gland Size	Available Entry Threads (Alternate Metric Thread Lengths Available)		Cable Bedding Diameter	Overall Cable Diameter	Armour Range		Across Flats	Across Corners	Protrusion Length	Combined Ordering Reference (*Brass Metric)			Shroud	Cable Gland Weight (Kgs)
	Metric	Thread Length (Metric)			Min	Max				Size	Type	Ordering Suffix		
20S16	M20	10.0	8.7	13.2	0.8	1.25	24.0	26.4	35.2	20S16	BWL	1RA	PVC04	0.084
20S	M20	10.0	11.7	15.9	0.8	1.25	24.0	26.4	32.2	20S	BWL	1RA	PVC04	0.076
20	M20	10.0	14.0	20.9	0.8	1.25	30.5	33.6	30.6	20	BWL	1RA	PVC06	0.117
25	M25	10.0	20.0	26.2	1.25	1.6	36.0	39.6	36.4	25	BWL	1RA	PVC09	0.155
32	M32	10.0	26.3	33.9	1.6	2.0	46.0	50.6	32.6	32	BWL	1RA	PVC11	0.220
40	M40	15.0	32.2	40.4	1.6	2.0	55.0	60.5	36.6	40	BWL	1RA	PVC15	0.370
50S	M50	15.0	38.2	46.7	2.0	2.5	60.0	66.0	39.6	50S	BWL	1RA	PVC18	0.468
50	M50	15.0	44.1	53.1	2.0	2.5	70.1	77.1	39.1	50	BWL	1RA	PVC21	0.434
63S	M63	15.0	50.0	59.4	2.0	2.5	75.0	82.5	52.0	63S	BWL	1RA	PVC23	0.846
63	M63	15.0	56.0	65.9	2.0	2.5	80.0	88.0	49.8	63	BWL	1RA	PVC25	0.818
75S	M75	15.0	62.0	72.1	2.0	2.5	90.0	99.0	63.7	75S	BWL	1RA	PVC28	1.486
75	M75	15.0	68.0	78.5	2.5	3.0	100.0	110.0	57.3	75	BWL	1RA	PVC30	1.662
90	M90	24.0	80.0	90.4	3.15	4.0	114.3	125.7	66.6	90	BWL	1RA	PVC32	2.460

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass 'S'

Example: 32BWL1RA5 = Nickel Plated Brass

Dimensions are displayed in millimetres unless otherwise stated

Cable Gland Size	Available Entry Threads (Alternate Metric Thread Lengths Available) Standard		Cable Bedding Diameter	Overall Cable Diameter	Armour Range		Across Flats	Across Corners "D"	Protrusion Length "F"	Nominal Radius Dimension		CIEL Earth Bolt Size	Earth Fault Current Rating (kA)	Combined Ordering Reference (*Brass Metric)			Cable Gland Weight (Kgs)
	Metric	Thread Length (Metric)			Min	Max				"H"	"G"			Size	Type	Ordering Suffix	
	20S	M20	10.0	11.7	15.9	0.8	1.25	24.0	26.4	32.2	28.6	38.6	M8	26.0	20S	BWLC	1RA
20	M20	10.0	14.0	20.9	0.8	1.25	30.5	33.6	30.6	31.8	41.8	M8	26.0	20	BWLC	1RA	0.158
25	M25	10.0	20.0	26.2	1.25	1.6	37.5	41.3	36.4	38.1	50.8	M8	26.0	25	BWLC	1RA	0.224
32	M32	10.0	26.2	33.9	1.6	2.0	46.0	50.6	32.6	41.3	54.0	M8	26.0	32	BWLC	1RA	0.244
40	M40	15.0	32.2	40.4	1.6	2.0	55.0	60.5	36.9	50.8	68.3	M10	26.0	40	BWLC	1RA	0.538
50S	M50	15.0	38.2	46.7	2.0	2.5	60.0	66.0	39.6	57.2	74.6	M12	43.0	50S	BWLC	1RA	0.670
50	M50	15.0	44.1	53.1	2.0	2.5	70.1	77.1	39.1	60.3	79.4	M12	43.0	50	BWLC	1RA	0.718
63S	M63	15.0	50.0	59.4	2.0	2.5	75.0	82.5	52.0	70.0	90.5	M12	43.0	63S	BWLC	1RA	1.226
63	M63	15.0	56.0	65.9	2.0	2.5	80.0	88.0	49.8	70.0	90.5	M12	43.0	63	BWLC	1RA	1.178
75S	M75	15.0	62.0	72.1	2.0	2.5	90.0	99.0	63.7	76.2	98.5	M12	43.0	75S	BWLC	1RA	1.859
75	M75	15.0	68.0	78.5	2.5	3.0	100.0	110.0	57.3	82.6	108.0	M12	43.0	75	BWLC	1RA	2.054
90	M90	24.0	79.0	90.4	3.15	4.0	114.3	125.7	66.0	95.3	108.0	M12	43.0	90	BWLC	1RA	2.926
100	M100	24.0	90.0	101.5	3.15	4.0	123.0	135.3	80.0	101.6	139.7	M12	43.0	100	BWLC	1RA	3.032
115	M115	24.0	98.0	110.3	3.15	4.0	133.4	146.7	98.0	112.0	138.5	M12	43.0	115	BWLC	1RA	4.066
130	M130	24.0	115.0	123.3	3.15	4.0	152.4	167.6	110.0	112.0	138.5	M12	43.0	130	BWLC	1RA	5.245

*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: 32BWL1RA5 = Nickel Plated Brass, 25BWL1RA4 = Stainless Steel

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.



BWL



BWL CIEL

BWL = SWA armour

BWL CIEL =BWL with integral earth lug



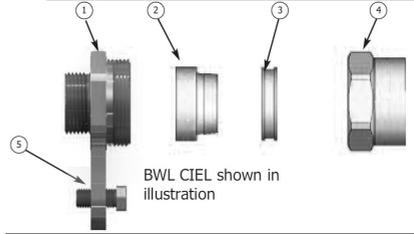
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INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPES BW

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

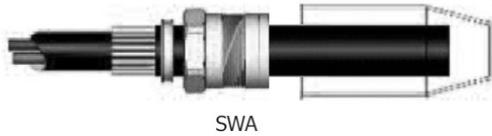
- 1. Entry Component (CIEL Entry on BWL CIEL)
- 2. Detachable Armour Cone
- 3. AnyWay Clamping Ring
- 4. Body
- 5. Earth Bolt



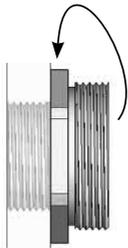
PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION

1. Separate components (1), (2), and (3). 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.

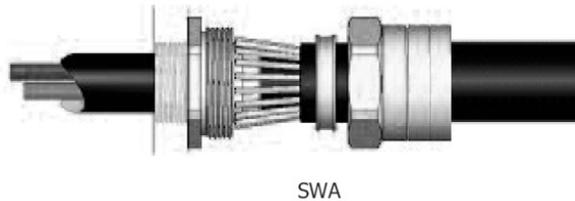
NOTE: On maximum size cables the clamping ring may only pass over the armour.



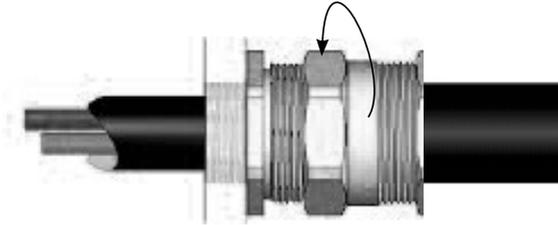
2. Secure the Entry Component (1) into the equipment as indicated.



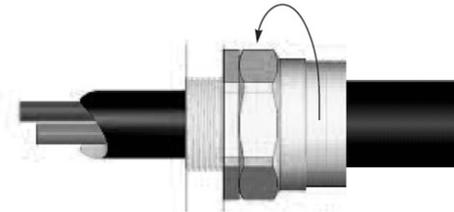
3. Pass the cable through the entry item and evenly space the braid/armour around the cone.



4. While continuing to push the cable forward to maintain contact between the armour and the Cone (2), tighten the Body (4) by hand until the AnyWay Clamping Ring (3) is felt to have engaged the 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. On the BWL CIEL fasten earth cable to the Earth Bolt (5) and tighten.