

**TECHNICAL DATA**

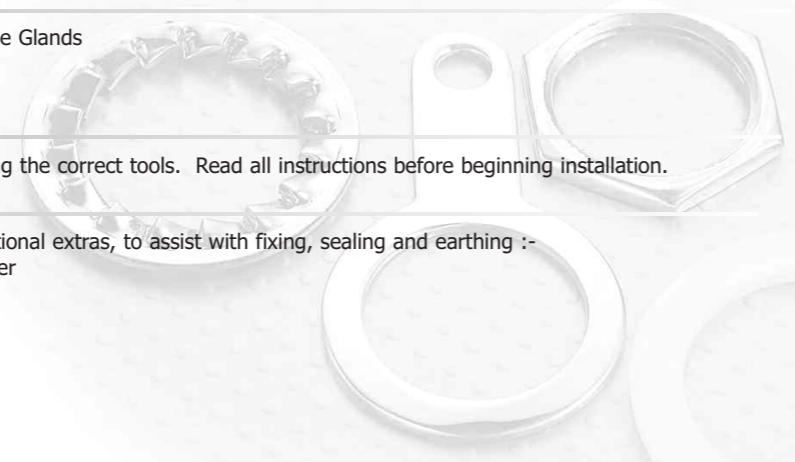
CABLE GLAND TYPE : E\*\* Family of CIEL Cable Glands  
 INGRESS PROTECTION : IP66, IP67, IP68  
 PROCESS CONTROL SYSTEM : BS EN ISO 9001

**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 | Serrated Washer | Entry Thread (I.P.) Sealing Washer



Cable Gland Size	Available Entry Threads 'C'			Minimum Thread Length 'E'	Cable Bedding Diameter 'A'		Overall Cable Diameter 'B'		Armour Range †		Nominal Across Flats 'D'	Nominal Across Corners 'D'	Nominal Protrusion Length 'F'	Nominal Radius Dimension		CIEL Earth Bolt Size	Earth Fault Current Rating (kA)	Ordering Reference (Brass Metric)	Cable Gland Weight (Kgs)
	Standard	Option			Min	Max	Min	Max	Min	Max	Max	Max	Max	'H'	'G'				
	Metric	NPT	NPT																
20S	M20	1/2"	3/4"	10.0	6.1	11.6	9.5	15.9	0.9	1.25	24.0	25.9	58.5	28.6	38.6	M8	26.0	20SE1WC1RA	0.142
20	M20	1/2"	3/4"	10.0	6.5	13.9	12.5	20.9	0.9	1.25	30.5	32.9	60.5	31.8	41.8	M8	26.0	20E1WC1RA	0.230
25S	M25	3/4"	1"	10.0	11.1	19.9	14.0	22.0	1.25	1.6	37.5	40.5	67.5	31.8	50.8	M8	26.0	25SE1WC1RA	0.328
25	M25	3/4"	1"	10.0	11.1	19.9	18.2	26.2	1.25	1.6	37.5	40.5	67.5	38.1	50.8	M8	26.0	25E1WC1RA	0.328
32	M32	1"	1-1/4"	15.0	17.0	26.2	23.7	33.9	1.6	2.0	46.0	49.7	69.5	41.3	54.0	M10	26.0	32E1WC1RA	0.470
40	M40	1-1/4"	1-1/2"	15.0	22.0	32.1	27.9	40.4	1.6	2.0	55.0	59.4	78.0	50.8	69.0	M12	26.0	40E1WC1RA	0.780
50S	M50	1-1/2"	2"	15.0	29.5	38.1	35.2	46.7	2.0	2.5	60.0	64.8	75.5	57.2	75.0	M12	43.0	50SE1WC1RA	0.960
50	M50	2"	2-1/2"	15.0	35.6	44.0	40.4	53.1	2.0	2.5	70.0	75.6	80.5	60.3	80.0	M12	43.0	50E1WC1RA	1.150
63S	M63	2"	2-1/2"	15.0	40.1	49.9	45.6	59.4	2.0	2.5	75.0	81.0	91.5	70.0	90.0	M12	43.0	63SE1WC1RA	1.700
63	M63	2-1/2"	3"	15.0	47.2	55.9	54.6	65.9	2.0	2.5	80.0	86.4	92.0	69.9	90.0	M12	43.0	63E1WC1RA	1.650
75S	M75	2-1/2"	3"	15.0	52.8	61.9	59.0	72.1	2.0	2.5	89.0	96.1	99.0	76.2	97.0	M12	43.0	75SE1WC1RA	2.600
75	M75	3"	3-1/2"	15.0	59.1	67.9	66.7	78.5	2.0	3.0	99.0	106.9	102.0	88.9	108.0	M12	43.0	75E1WC1RA	3.300
90	M90	3"	3-1/2"	15.0	66.6	79.9	76.2	90.4	3.0	3.5	114.0	123.1	120.0	95.3	112.0	M12	43.0	90E1WC1RA	4.850
100	M100	4"	-	15.0	76.0	90.9	86.1	101.5	3.15	4.0	123.0	132.8	138.0	95.3	112.0	M12	43.0	100E1WC1RA	5.950
115	M115	-	-	15.0	86.0	97.9	101.3	110.3	3.15	4.0	133.4	133.4	147.6	95.3	112.0	M12	43.0	115E1WC1RA	6.050
130	M130	-	-	15.0	97.0	114.9	114.0	123.3	3.15	4.0	146.1	146.1	161.9	95.3	112.0	M12	43.0	130E1WC1RA	7.150

Cable Gland Selection Table

All dimensions in millimetres

Order codes shown are for E1WC glands

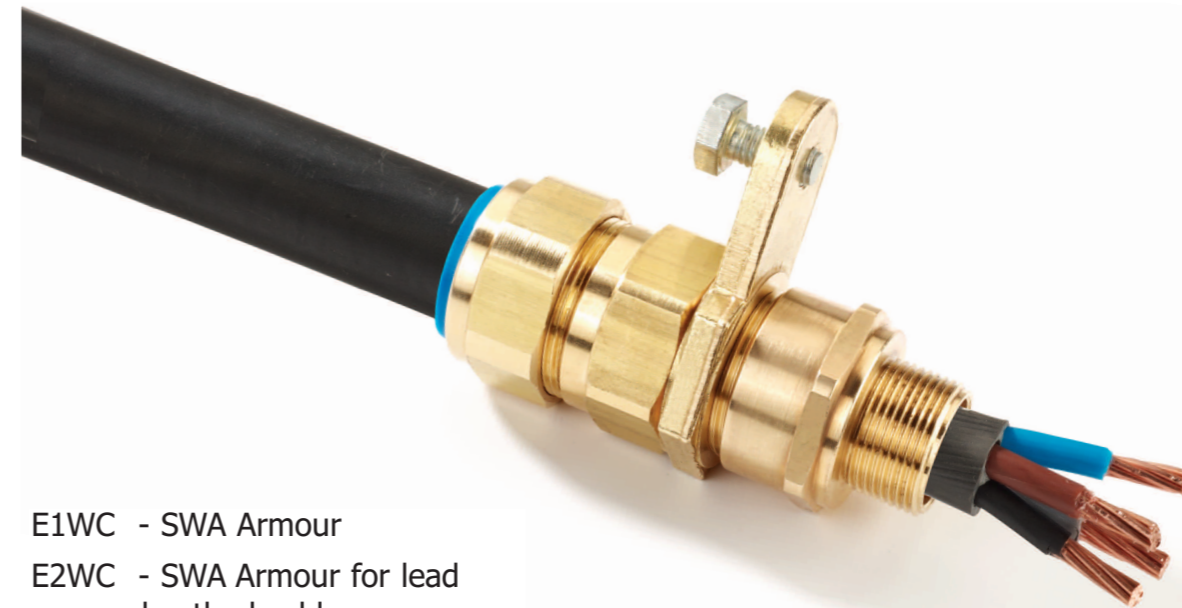
For e.g. E1XC glands substitute E1WC for E1XC - e.g. 20E1XC1RA

Please note that the overall maximum cable bedding diameter for "E2" variants should be reduced by 1mm to allow for the inner lead sheath.

# ASSEMBLY FITTING INSTRUCTIONS FOR INSTALLATION OF CMP CABLE GLAND TYPE "E" WITH CAST INTEGRAL EARTH LUG

FOR TERMINATION OF CABLES WITH WIRE BRAID, TAPE ARMOUR (STA/DSTA), STRIP ARMOUR & SINGLE WIRE ARMOUR (SWA) (WITH LEAD INNER SHEATH ON "E2" VARIANT). INCORPORATING A CAST INTEGRAL EARTH LUG.

## CABLE GLAND TYPES E1WC, E2WC, E1XC, E2XC, E1UC & E2UC



- E1WC - SWA Armour
- E2WC - SWA Armour for lead sheathed cable
- E1XC - Braid, Tape, etc Armour
- E2XC - Braid, Tape, etc Armour for lead sheathed cable
- E1UC - Universal Gland for all Armour Types
- E2UC - Universal Gland for all Armour Types with lead sheathed cable



**CMP PRODUCTS**



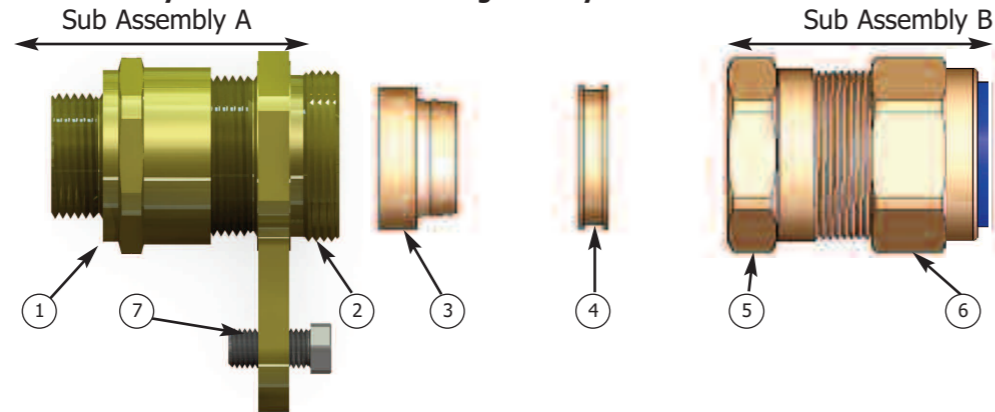
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## INSTALLATION INSTRUCTIONS FOR CMP CABLE GLAND TYPE "E"

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

1. Entry Component
2. Main Item with CIEL
3. Detachable Armour Cone
4. AnyWay Clamping Ring
5. Body
6. Outer Seal Nut
7. Earth Bolt



**PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE BEGINNING THE INSTALLATION**

1. Prepare the cable by removing the cable outer sheath and the armour to suit the geometry of the equipment. Remove a further 18mm (maximum) of outer sheath to expose the armour. If applicable remove any tapes or wrappings to expose cable inner sheath. Tape armour should be further prepared by cutting the tape into strips as shown below:

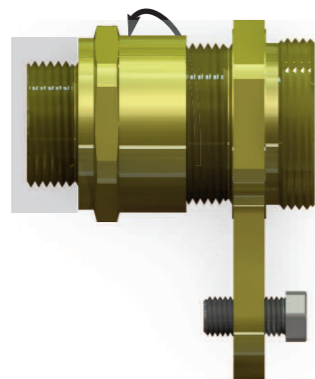


2. Separate the gland into two sub-assemblies "A & B". Ensuring that the Outer Seal Nut (6) is relaxed, pass sub-assembly "B" over the cable outer sheath and armour followed by the "AnyWay" clamping ring (4).

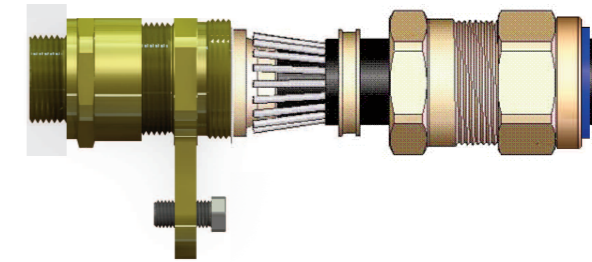
Note: On maximum size cables the clamping ring may only pass over the armour.



3. Ensure that the inner seal is relaxed by slackening the Main Item (2). Secure sub-assembly "A" into the equipment either by screwing the Entry Item (1) into a threaded hole or by securing it in a clearance hole using a locknut as applicable.

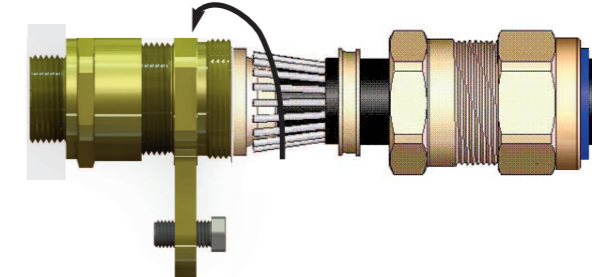


4. Locate the Armour Cone (3) into its recess in the Main Item (2). (N.B. For E1FU and E2FU variants, make sure the correct side of the cone is outermost - grooved for braid/tape armour and stepped for SWA). Pass the cable through sub-assembly "A" until the armour engaged with the cone. Spread the armour evenly around the cone.

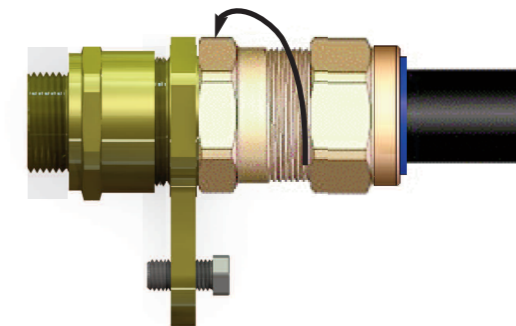


5. While continuing to push the cable forward to maintain contact between the armour and the cone, tighten the Main Item (2) by hand until extra resistance is felt. (This is when the inner seal makes contact with the cable inner sheath). Tighten a further full turn using a spanner.

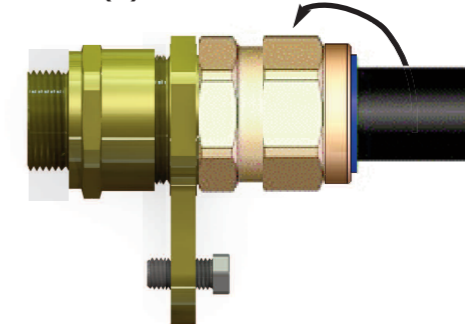
NOTE: The earthing device on E2\* type glands will automatically engage the lead sheath.



6. Hold the Main Item (2) with a spanner and tighten sub-assembly "B" onto sub-assembly "A" using a spanner until all available threads are used.



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



8. Connect the earth cable to the earth bolt.