E1W & E1X

INSTALLATION GUIDE – E1W & E1X CABLE GLANDS

CW cable glands are designed for use with Single Wire Armour (SWA) and Aluminium Wire Armour (AWA) cables.

CX cable glands are suitable for cables with Wire Braid Armour, Strip Armour, Pliable Wire Armour, and Steel Tape Armour.

INSTALLATION NOTES.

1. Only qualified personnel should carry out the installation using appropriate tools.
2. Confirm that the cable gland is fully suitable for the type of cable being used.
3. The installer must verify that the materials are compatible with both the enclosure and the environmental conditions.
4. To retain IP66 protection, use a perfect sealing washer or an approved alternative sealing solution.
5. Entry threads comply with ISO Metric standards (ISO 965-1 & ISO 965-3) or NPT standard ASME B1.20.1.

INSTALLATION INSTRUCTION
CABLE GLAND E1W & E1X

Technical Specifications.

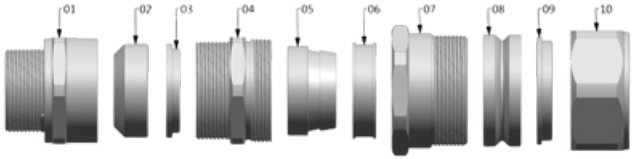
Type	E1W Industrial Cable Gland.
Size	20MM TO 90MM
Applications	Provide Mechanical Cable Retention & Electrical continunity via Armoured Wire termination In indoor area. It is Easy to Install.
Operating Temp	-60°C To +180°C.
Material	Brass (BS EN 12164/ Grade CuZn39Pb3).
Seal Material	Thermoset Elastomer.
Standard Thread	ISO Metric.
Cable Type	Unarmoured & Braided.
Sealing Technique	Inner Displacement Seal.
Sealing Area	Cable Outer Sheath.
Optional Gland Material.	Brass Nickel Plated, Aluminium
Optional Accessories.	Adaptor, Reducer, Earth Tag, Lock Nut, Serrated Washer, Shroud.
Cable Gland Kit	1 Cable Gland, 1 Lock Nut 1 Earth Tag, 1 PVC Shroud

E1W INDUSTRIAL CABLE GLAND SELECTION TABLE

CABLE GLAND SIZE	GLAND DIMENSIONS: ENTRY THREAD E STANDARD METRIC	ENTRY THREAD E STANDARD NPT*	ENTRY THREAD E OPTION NPT*	MINIMUM THREAD LENGTH L1 METRIC	MAXIMUM LENGTH L MAX	ACROSS FLATS AF MAX	ACROSS CORNES AC MAX	CABLE BEDDING DIAMETER B MIN	CABLE BEDDING DIAMETER B MAX	OVERALL CABLE DIAMETER A MIN	OVERALL CABLE DIAMETER A MAX	ARMOUR RANGE MIN	ARMOUR RANGE MAX
20S/16	M20	1/2*	3/4*	12	65	24	26.4	3.1	8.8	6.1	13	0.8	1.25
20S	M20	1/2*	3/4*	12	65	24	26.4	6.1	11.8	9.5	16	0.8	1.25
20	M20	1/2*	3/4*	12	69	30.5	33.5	8.5	14.2	13	20.9	0.8	1.25
25S	M25	3/4*	1*	12	84	41.25	41.25	10	20	14	22	1.25	1.6
25	M25	3/4*	1*	12	84	41.25	41.25	14	20	18.2	26.2	1.25	1.6
32	M32	1*	1-1/4*	12	80	50.6	50.6	17	26.3	23.7	33.9	1.6	2
40	M40	1-1/4*	1-1/2*	15	85	60.5	60.5	23.5	32.2	27.9	40.4	1.6	2
50S	M50	1-1/2*	2*	15	80	66	66	31	38.2	35.2	46.7	2	2.5
50	M50	2*	2-1/2*	15	88	77	77	35.5	44	40.4	53	2	2.5
63S	M63	2*	2-1/2*	15	94	82.5	82.5	41.4	50	45.6	59	2	2.5
63	M63	2-1/2*	3*	15	96	88	88	47	56	54.6	65.5	2	2.5
75S	M75	2-1/2*	3*	15	105	99	99	54	62	59	72.4	2	2.5
75	M75	3*	3-1/2*	15	108	100	110	60	68	66.7	78.5	2.5	3.15
90	M90	3-1/2*	4*	20	138	125.5	125.4	66.5	80	76.2	90.2	3.15	4

*All Dimensions are in millimetres(Except*where dimensions are in inches)*

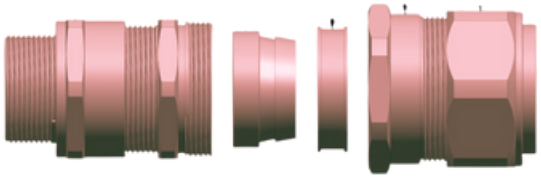
INSTALLATION INSTRUCTION
CABLE GLAND E1W & E1X



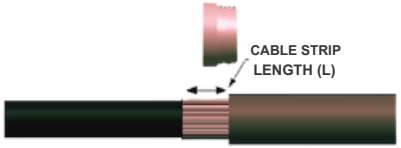
01 Entry Component (Sub-Assembly A)
02 Entry Thermoset Inner Seal (Sub-Assembly A)
03 Entry Skid Washer (Sub-Assembly A)
04 Compression Body (Sub-Assembly A)
05 Detachable Armour Cone
06 Clamping Ring
07 Middle Body (Sub-Assembly B)
08 Thermoset Seal (Sub-Assembly B)
09 Skid Washer (Sub-Assembly B)
10 Compression Cap (Sub-Assembly B)

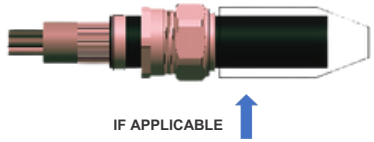
READ ALL INSTRUCTION CAREFULLY BEFORE INSTALLATION

Step 1 : It it not required to dismantle the Gland any further than shown.

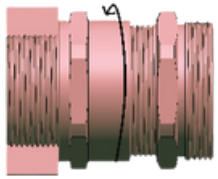


Step 2 : Separate components Sub-Assembly A from Sub-Assembly B. Now pass the Sub-Assembly B (All 4 components 07, 08, 09, 10 assembled as it is) & Clamping Ring over the cable. Use a suitable tool to remove the outher sheath of the
cable to suit the geometry of the equipment. Remove a further 23mm(max) of outer sheath to expose the armour to a length that matches the size of the Gland.



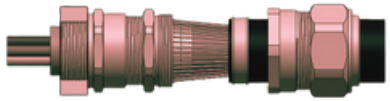


Step 3 : Ensure that Entry Thermoset Seal (02) is relaxed by loosening the Compression Body-04 (Sub-Assembly A). Now fit Sub-Assembly A into the threaded equipment by screwing the Entry Component-01 or by securing it in a clearance hole using a lock nut as applicable.

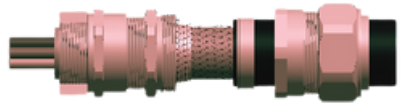


INSTALLATION INSTRUCTION
CABLE GLAND E1W & E1X

Step 4 : Insert the Detachable Armour Cone-05 in the Compression Body-04. Pass the cable through Sub-Assembly A until the armour engaged with the the Detachable Armour Cone-05. Spread the armour evenly around the Detachable
Armour Cone-05.

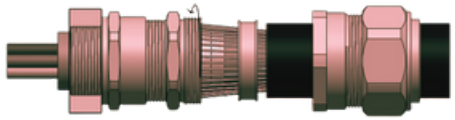


E1W (SWA & AWA)

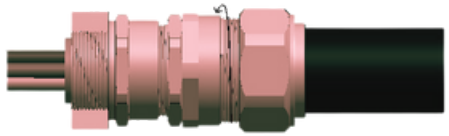


E1X (All Other Armour)

Step 5 : Gently push the cable forward to maintain contact between the Braid / Armour and the Detachable Armour Cone-05, tighten the Compression Body-04 by hand until the Entry Thermoset Seal (02) makes contact with the cable inner sheath till heavier resistance is felt. Tighten a further full turn with a spanner.



Step 6 : Hold the Compression Body-04 with one spanner and tighten Sub-Assembly B onto Sub-Assembly A using second spanner until heavy resistance is felt.



Step 7 : Tighten the outer seal Comprssion Cap-10 with hand untill the seal is formed around the cable. Now hold Middle Body-07 with one Spanner and tighten Compression Cap-10 one further turn with second Spanner.