

INSTALLATION INSTRUCTION CABLE GLAND E1W & E1X



Technical Data	
Type	E1W & E1X
Design Standard	BS 6121: Part 1:1989, IEC/EN 62444
Ingress Protection Rating	IP 66 / IP 68
Process Control System	ISO 9001:2015
Operating Temperature	-40° C to + 110° C* / -60° C to + 185° C** (HT)
CE Certification No	
Optional Accessories	Earth Tag, Lock Nut, Serrated Washer, Entry Thread Sealing Washer, Shroud
Special Condition for Safe Use	None

* For this Temperature range : Standard Seal (Black Colour)

** For this Temperature range : High Temperature Seal (Red Colour)

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CABLE GLAND FOR USE WITH SINGLE WIRE ARMOUR (SWA) & ALUMINIUM WIRE ARMOUR (AWA) CABLES FOR E1W AND WIRE BRAID ARMOUR, STRIP ARMOUR, PILABLE WIRE ARMOUR & STEEL TAPE ARMOUR CABLES FOR E1X.



INSTALLATION NOTES

1. Installation should only be performed by a competent person using the correct tools.
2. Ensure your gland is fully compatible with the cables you plan to attach it.
3. Installer must check material compatibility with enclosure & environment.
4. To maintain IP66/IP67/IP68, CABEX certified sealing washer or other approved sealing method must be used.
5. Entry threads are in accordance with Metric ISO 965-1 & ISO-965-3 or NPT ASME B1.20.1

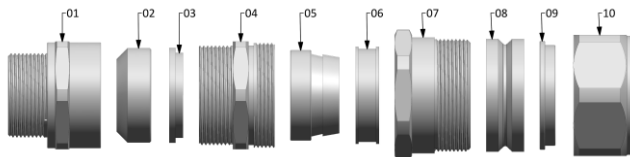
E1W & E1X Industrial Cable Gland Selection Table															
Cable Gland Size	Gland Dimensions							Cable Dimensions							
	Entry Thread			Minimum Thread Length	Maximum Length	Across Flats	Across Corners	Cable Bedding Diameter		Overall Cable Diameter		Armour Range (E1W)		Armour Range (E1X)	
	Standard		Option					Metric	Max	Max	Max	Min	Max	Min	Max
	Metric	NPT*	NPT*												
20S/16	M20	1/2"	3/4"	12.00	65.00	24.00	26.40	3.10	8.80	6.10	11.80	0.80	1.25	0.30	1.00
20S	M20	1/2"	3/4"	12.00	65.00	24.00	26.40	6.10	11.80	9.50	16.00	0.80	1.25	0.30	1.00
20	M20	1/2"	3/4"	12.00	69.00	30.50	33.55	8.50	14.00	13.00	20.90	0.80	1.25	0.30	1.00
25S	M25	3/4"	1"	12.00	84.00	37.50	41.25	10.00	16.00	14.00	22.00	1.25	1.60	0.40	1.20
25	M25	3/4"	1"	12.00	84.00	37.50	41.25	14.00	20.00	18.20	26.20	1.25	1.60	0.40	1.20
32	M32	1"	1-1/4"	12.00	80.00	46.00	50.60	17.00	26.40	23.70	33.90	1.60	2.00	0.40	1.20
40	M40	1-1/4"	1-1/2"	15.00	85.00	55.00	60.50	23.50	32.30	27.90	40.40	1.60	2.50	0.40	1.60
50S	M50	1-1/2"	2"	15.00	80.00	60.00	66.00	31.00	38.50	35.20	46.70	2.00	2.50	0.40	1.60
50	M50	2"	2-1/2"	15.00	88.00	70.00	77.00	35.50	44.00	40.40	53.00	2.00	2.50	0.50	1.60
63S	M63	2"	2-1/2"	15.00	94.00	75.00	82.50	41.40	50.00	45.60	59.00	2.00	2.50	0.50	1.60
63	M63	2-1/2"	3"	15.00	96.00	80.00	88.00	47.00	56.20	54.60	65.50	2.00	2.50	0.50	1.60
75S	M75	2-1/2"	3"	15.00	105.00	90.00	99.00	54.00	62.10	59.00	72.40	2.00	2.50	0.50	1.60
75	M75	3"	3-1/2"	15.00	108.00	100.00	110.00	60.00	68.30	66.70	78.50	2.50	3.15	0.50	1.60
90	M90	3-1/2"	4"	20.00	138.00	114.00	125.40	66.60	80.00	76.20	90.20	2.50	3.15	0.80	1.60

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

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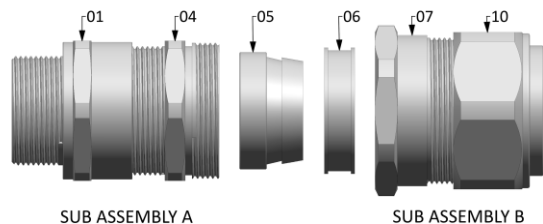
CABLE GLAND COMPONENTS



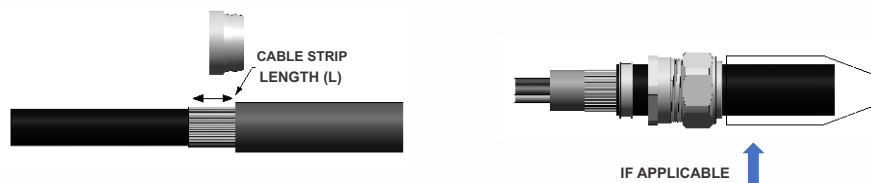
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|--|-------------------------------------|
| 01 Entry Component (Sub-Assembly A) | 06 Clamping Ring |
| 02 Entry Thermoset Inner Seal (Sub-Assembly A) | 07 Middle Body (Sub-Assembly B) |
| 03 Entry Skid Washer (Sub-Assembly A) | 08 Thermoset Seal (Sub-Assembly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

READ ALL INSTRUCTION CAREFULLY BEFORE INSTALLATION

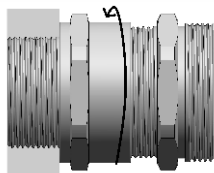
Step 1 : It is not required to dismantle the Gland any further than shown.



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 outer 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.



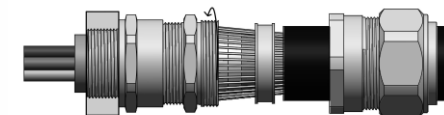
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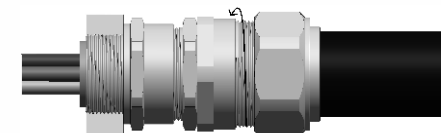
Step 4 : Insert the Detachable Armour Cone-05 in the Compression Body-04. Pass the cable through Sub-Assembly A until the armour engaged with the the Detachable Armour Cone-05. Spread the armour evenly around the Detachable Armour Cone-05.



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 Compression Cap-10 with hand until 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.

