Installation Manual for E1FWRF Cable Gland

E1FWRF Flameproof Ex d Cable Gland suitable for Armoured Cables with Double Compression and Rigid Conduit fitting

Please read all instructions carefully before beginning the installation

CABTEK E1FWRF type Cable Glands are for Indoor and Outdoor use in the appropriate Hazardous Areas with armoured cable. They provide flameproof seal on the cable inner sheath and environmental seal on the cable outer sheath with environmental protection to IP66. They are suitable for normal industrial $environmental\ of\ temperature, humidity\ and\ vibration.$

Cable Glands are made of Brass CW614N and SS 316L assembled with VMQ Silicone Rubber and Nylon Substrate.

Material Compatibility under chemical corrosion or attack by aggressive substance must be considered before installation.

Cable Gland confirm to following Standards for Group II and III, Category 2 for Zone 1, 2 and category 2 for 21 & 22 for ambient temperature range -60 $^{\circ}$ C \leq Ta \leq +125 $^{\circ}$ C

Standards Applied: EN 60079-0: 2012+A11:2013,

EN 60079-1: 2014 & EN 60079-31: 2014

Ex marking on E1FWRF type Cable Glands:



Installation Guide:

- 1. Installation must be carried out by a competent electrician, skilled in cable gland installation.
- Installation should not be carried out under live conditions.
- Once installed do not dismantle except for occasional inspection. If necessary, dismantle by reverting the installation instruction. The gland is not serviceable and spare parts are not supplied separately.
- 4. Parts of glands are not interchangeable with any other design. If manufacturer's parts are mixed, certification will be invalidated.
- The female thread in the enclosure must comply with relevant standard and do not damage threads on assemblies.
- 6. The glands should only be used with substantially round and compact cables with correct tools.
- 7. Installation should only be performed by a competent person using the correct torque tools. Spanners should be used for tightening. Read all instructions before beginning installation.
- Any modification which differs from the condition as delivered is not permitted.

CABLE GLAND ORDERING DETAILS:

sealing agent.

8.

/Sealing Washer, Shroud.

Special Condition of Safe Use of Cable Glands:

the rated torque with Torque wrenches.

1. The Cable Entries are only suitable for fixed installations.

5. Install in accordance with requirements of EN60079-14.

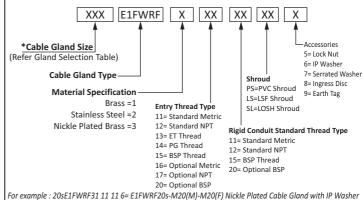
entries are attached to the pressure-resistant enclosure.

Installation should not be carried out under live conditions.

Cable must be effectively clamped from pulling and twisting.

point of entry/mounting are outside the range of -60°C to + 125°C.

Product Code For Ordering Purpose



9. Accessories are available from CABTEK, as optional extras, to assist with fixing,

3. Cable Glands shall not be used in enclosure where the temperatures at the

4. The glands should only be used with substantially round cables and tightened to

6. The cable glands are provided with a sealing ring with an axial sealing height of

at least 5 mm. With reference to the clearance groove, the end-user should

ensure that at least five complete turns of the connector thread are made. In

order to guarantee a screw depth of 8 mm, the enclosure should have a wall

thickness of min. 10 mm ; if <10 mm, then if necessary, use a washer when cable

necessary IP protection is guaranteed; this can be done using a suitable thread

7. In the case of NPT connecting threads, the end-user must ensure that the

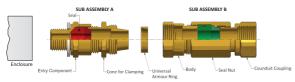
sealing and earthing, Locknut, Earth Tag, Serrated Washer, Entry Thread (I.P.)

IM / Cable Gland E1FWRF Series/Rev. 00/12.04.2016

For cable gland technical details like Cable Gland Size, Cable diameter, thread and torque details given as below.

GLAND SELECTION CHART															
Size	Standard Thread Size "C"			Thread	Optional Thread "C"		Armoured Wire Diameter for W type		Beddin:	Cabl		g Dia."B"	Standard Connection Thread "F"		Toque
	Metric	NPT/BSP	ET	Length "D"	Metric	NPT	Min.	Max.	Min.	Max.	Min.	мах.	Metric	NPT/BSP (G)	(Nm)
16	M16	76*	56"	15.00	-	-	0.90	0.90	3.10	8.60	6.10	13.10	M2O	1/2"	35
20s16	20	1/2"	3%"	15.00	M25	34."	0.90	0.90	3.10	8.60	6.10	13.10	M2O	1/2"	35
205	M20	1/2"	34"	15.00	M25	34,*	0.90	1.25	6.20	11.70	9.50	15.90	M2O	1/2"	35
20	M20	1/2"	36"	15.00	M25	34."	0.90	1.25	6.50	13.90	12.50	20.90	M25	36"	35
25	M25	34,"	1"	15.00	M32	1"	1.25	1.60	11.30	19.90	19.90	26.20	M32	1'	45
32	M32	1"	11/4"	15.00	M40	11/4"	1.60	2.00	17.00	26.20	23.70	33.90	M40	11/4"	55
40	M40	11/4"	11/2"	15.00	M50	11/2"	1.60	2.00	23.60	32.10	27.90	40.40	M50	11/2"	65
5OS	M50	11/2"	2"	15.00	M63	2"	2.00	2.50	31.50	38.20	35.20	46.70	M63	2"	80
50	M50	2*	2"	15.00	M63	2 1/2"	2.00	2.50	35.80	44.00	40.40	53.00	M63	2"	80
635	M63	2*	21/2"	15.00	M75	21/2"	2.00	2.50	41.70	50.00	45.60	59.40	M75	21/2"	95
63	M63	21/2"	21/2"	15.00	M75	3"	2.00	2.50	47.50	56.00	54.60	65.80	M75	21/2"	95
755	M75	21/2"	3"	15.00	M90	3*	2.00	2.50	55.00	62.00	59.00	72.00	M90	3"	110
75	M75	3*	3"	15.00	M90	31/2"	2.50	3.00	62.00	68.00	66.70	78.40	M90	3"	110
90	M90	31/2"	31/2"	18.00	M100	4"	3.00	3.50	67.00	79.00	76.20	90.30	M100	31/2"	150

1. Separate the cable gland part as shown in below picture. Please do not separate subassembly in shown picture.



2. Determine the conductor length required to suite the equipment and prepare the cable accordingly. Remove the Outer sheath of cable as per requirement to see the insulated conductors and armor.



3. Fit the shroud over the outer sheath of cable.



4. Check the seal in the entry component and it is in a relaxed state by loosening the outer seal nut and inner seal. Fit the subassembly "A" part to the enclosure. Use the thread seals to maintain the IP rating of equipment and cable glands. Hand-tighten then use wrench to tighten a further. DO NOT EXCEED MAX TORQUE FOR ENCLOSURE. The surface of the $enclosure\ should\ be\ sufficiently\ flat\ and\ rigid\ to\ make\ both\ the\ IP\ joint\ and\ a\ suitable\ earth$ connection (if required). In the case of painted enclosures, serrated washer should be fitted to break through the paint and make satisfactory earth contact. Secure the complete gland into the enclosure

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5. Then tighten the outer seal nut and Body assemblies B by hand into the subassemblies "A" of Entry Component and cone for clamping until heavy resistance is felt or seal grip the outer sheath Of cable. Then tighten the body with torque wrench or spanner.



6. Tighten the assemblies of Outer Seal Nut and Body until the outer seal nut makes metal to metal contact or seal nut clearly engaged the cable and cannot be further tightened without the use of excessive force by installer.



7. Bring conduit pipe to cable gland for fitting over the conduit anchorage.



Warning:

Please study carefully these instructions before installation. These glands should not be $used in any application other than those mentioned here, unless {\tt CABTEK} states in writing that$ the product is suitable for such application. CABTEK will not take any responsibility for any damage, injury or other consequential loss caused where the glands are not installed or used according to installation instructions. This leaflet is not intended to advice on the selection of cable glands. Installation must be carried out by a competent electrician, skilled in cable gland installation. Installation should not be carried out under live conditions

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