2 Installation Manual for A2FMHRF Cable Gland 8. Any modification which differs from the condition as delivered is not permitted. A2FMHRF Flameproof Cable Gland for Unarmoured Cables with Rigid 9. Accessories are available from CABTEK, as optional extras, to assist with fixing, sealing and earthing, Locknut, Earth Tag, Serrated Washer, Entry Thread seal (IP), Shroud. conduit fitting Special Condition of Safe Use of Cable Glands: Please read all instructions carefully before beginning the installation Cable Glands are only suitable for fixed installations. CABTEK A2FMHRF type Cable Glands are for Indoor and Outdoor use in the 2. Cable must be effectively clamped from pulling and twisting. appropriate Hazardous areas with unarmored cable. The seal on the outer jacket 3. Cable Glands shall not be used in enclosure where the temperatures at the point of entry and give environmental protection to IP66/67. Glands are suitable for normal /mounting are outside the range of ambient temperatures as detailed in general industrial environmental of temperature, humidity and vibration. description. Cable Glands are made of Brass CW614N/SS 316L assembled with VMQ Silicone The glands should only be used with substantially round cables and tightened to the rated Rubber and Nylon Substrate. torque with torque wrenches. 5. Install in accordance with requirements of EN60079-14. Material Compatibility under chemical corrosion or attack by aggressive The cable glands are provided with a sealing ring with an axial sealing height of at least 5 6. substance must be considered before installation. mm. With reference to the clearance groove, the end-user should ensure that at least five Cable Gland confirm to following Standards for Group II, Category-2 for Zone 1, 2, complete turns of the connector thread are made. In order to guarantee a screw depth of 21 & 22 for ambient temperature range -60°C to +135°C. 8 mm, the enclosure should have a wall thickness of min. 10mm; if <10 mm, then if Standards Applied: EN IEC 60079-0:2018 necessary, use a washer when cable entries are attached to the pressure-resistant EN/IEC 60079-1:2014 enclosure. EN/IEC 60079-31:2014/2013 In the case of NPT connecting threads, the end-user must ensure that the necessary IP protection is guaranteed; this can be done using a suitable thread sealing agent. Ex marking on A2FMHRF type Cable Glands: 8. Installation should not be carried out under live conditions. CABTEK 20A2FMHRF-M20(M) -M20(F) (Ø2.5x7) (X) II 2 GD C C 2903 CABLE GLAND ORDERING DETAILS: Product Code for Ordering Purpose XXX A2FMHRF X XX XX XX Ex db IIC Gb, Ex eb IIC Gb X *Cable Gland Size Ex tb IIIC Db IP66/67..... -60°C to +135°C (Refer Gland Selection Table) ETL22ATEX0109X, IECEx ITS 16.0041X, P568411/1 Specify Number Cable Gland Type Installation Guide: of holes* Between 1 to 7 1. Installation must be carried out by a competent electrician, skilled in cable gland Material Specification (Respectively) installation. Brass =1 Stainless Steel (SS) =2 2. Installation should not be carried out under live conditions. Brass Nickle Plated (BNP) =3 3. Once installed do not dismantle except for occasional inspection. If necessary, dismantle Ordering suffix for Seal Entry Thread Type — 11= Standard Metric by reverting the installation instruction. The gland is not serviceable and spare parts are A, B, C, D, E Conduit Thread not supplied separately. 11= Standard Metric 12= Standard NPT 4. Parts of glands are not interchangeable with any other design. If manufacturer's parts 12= Standard NPT 13= ET Thread Accessories 13= FT Thread Shroud Type _ are mixed, certification will be invalidated. 14= PG Thread 5 = Lock Nut 14= PG Thread The female thread in the enclosure must comply with relevant standard and do not 15= BSP Thread PS= PVC Shroud 6 = IP Washer 16= Optional Metric 15= BSP Thread LS= LSF Shroud damage threads on assemblies. 7 = Serrated Washer 16= Optional Metric 17= Optional NPT SI = I SOH Shroud The glands should only be used with substantially round and compact cables with correct 8 = Ingress Disc 17= Optional NPT 20= Optional BSP PC = PCP Shroud tools 9 = Earth Tag 20= Optional BSP For example 7. Installation should only be performed by a competent person using the correct torque 20A2FMHRF 3 11 11 PS 6 A 7 = A2FMHRF-20-M20(M)-M20(F) Nickle Plated Cable Gland with PVC Shroud, IP tools. Spanners should be used for tightening. Read all instructions before beginning Washer & Seal A with 7 holes installation. 20A2FMHRF 3 11 11 PS569A7 = A2FMHRF-20-M20(M)-M20(F) Nickle Plated Cable Gland Kit* with Seal A with 7 holes (*Kit includes PVC Shroud(PS), Lock Nut(5), IP Washer(6) & Tag(9) 3 4 For cable gland technical details like Cable Gland Size, Cable diameter, thread and torque 4 Determine the conductor length required to suite the equipment and prepare details given as below the cable accordingly. Remove the Outer sheath of cable as per requirement Cable Gland Selection Table for Fig 1 to 4 to see the insulated conductors and pass through cable gland. Introduct Entry Thread "C" M Length Optional Seal Hole "D" Metric NPT/BSP Cable Ø (X) ric NPT/BSP ET PG 0x1.5 1/2" 1.5 5/8* M20x1.5 205* M20x1.5 1/2" 3/4" PG13.5 15 M25x1.5 3/4" 3.7 1 to 2 24.0 26.20 19.50 5 Tighten the seal nut by hand until resistance is felt and then tighten further 15 M25x1.5 3/4" 2.5 A 1 to 7 27.0 29.50 15 M25x1.5 3/4" 3.0 B 1 to 7 27.0 29.50 15 M25x1.5 3/4" 3.0 B 1 to 7 27.0 29.50 15 M25x1.5 3/4" 3.6 C 1 to 7 27.0 29.50 one full turn with spanner as instructed torque. 1 to 7 36.0 39.20 27.90 1 to 7 36.0 39.20 25.80 1 to 7 36.0 39.20 27.90 ..5 1%" 2.5 ..5 1%" 3.0 ..5 1%" 3.6 A 1 to 7 41.0 50.0 57.00 27.90 B 1 to 7 41.0 45.00 27.90 C 1 to 7 41.0 45.00 27.90 C 1 to 7 41.0 45.00 27.90 6 Attach the conduit to the conduit coupler and fully tighten. Ensure that the seal nut does not come loose during this process by holding it with a spanner. INSTALLATION INSTRUCTIONS FOR CABLE GLAND TYPES A2FMHRF Rigid Co It is not necessary to separate components of the cable gland any further 1. than illustrated below.

Warning:

Customer Care:

telephone number

Tel.: + 91-76006 16887, 94277 71205

CABTEK

Please study carefully these instructions before installation. These glands

should not be used in any application other than those mentioned here, unless

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.

For any more information regarding please send your query to us by mail or

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IM / Cable Gland A2FMHRF Series/Rev. 01, 11.01.2024



2. Check the seal in the entry component and it is in a relaxed state by loosening the outer seal nut.



3. Fit the complete cable glands 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 by the outer seal nut.

