

## A2F-HTF-FC

### Ex db I/IIC, Ex eb I/IIC, Ex ta IIIC, Ex nR IIC

# **COMPRESSION GLAND WITH CONDUIT CONNECTION for Heat Trace Cable**

#### Features and Benefits

- Passes the IECEx / ATEX / UKEX 100% pull test, so no additional cable clamping is required.
- For indoor, outdoor, Group I, II, III, Zone 1, 2, 20, 21 and 22 hazardous areas
- Fitted with a specially formulated elastomeric displacement seal, giving superior cable retention, explosion protection, and an IP rating.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™) available in aluminium or stainless steel 316/316L on request. (Note: Aluminium is not suitable for Group I applications.)
- With an M25 female thread to allow the attachment of flexible conduits. Alternative thread sizes can be provided on request.

Supplied with a thread-sealing gasket with parallel threads only.







#### **Technical Data**

A2F-HTF-FC

Gland Material: Brass (Marine Grade Electroless Nickel Plated™), Aluminium,

Stainless Steel 316/316L

Seal Material: Standard Thermoset Elastomer or Extreme Temperature Seals

Sealing Gasket Material: HDPE, Nylon 66 or PTFE Cable Type: Heat Trace Housed in Conduit

Sealing Area: Outer Sheath

**Optional Accessories:** Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer

Note: The installer should ensure that the materials are suitable for the installation

environment

#### Standards and Certifications

IECEx: Ex db I/Ex eb I Mb, Ex db IIC / Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da Equipment Protection Levels

ATEX/UKEX: (a) I M2 Ex db I / Ex eb I Mb, (b) II 2/3 G, 1D, Ex db IIC, Ex eb IIC

CML 15Y728

Gb, Ex ta IIIC Da, Ex nR IIC Gc

Standard Seals:-60°C to +95°C /100°C (HDPE/ Nylon Sealing Gasket) Continuous Operating Temp:

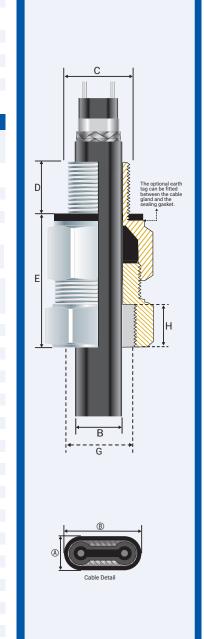
Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket)

Conformance: Certificate:

IEC/BS EN 62444 IEC/BS EN CML 14CA364 **IECE**x IEC 60079 Part 0, 1, 7, 15, 31 IECEx CML 20.0011 **ATEX** EN 60079 Part 0, 1, 7, 31 CML 20ATEX1026 EN 60079 Part 15 CML 22 ATEX 4116 **UKEX** BS EN 60079 Part 0, 1, 7, 31 CML 21UKEX1013 BS EN 60079 Part 15 CML 22UKEX4117 SANS/IEC 60079 Part 0, 1, 7, 15, 31 MASC S/20-9022 SANS

IP66/68 850m - Parallel IFC 60529 IEC 60529 IP65/66 - Tapered

IECEx CML 20.0011 IP68 - Tapered and approved grease IEC 60529 CML 14CA370-2 Deluge Protection DTS-01 ASTM B117-11, BS EN ISO 3231 EXOVA N968667 Corrosion Protection



PATENTED



#### Conditions for Safe Use - X

None.



All dimensions except NPT are in mm. Male Entry Thread 'C' and Female Entry Thread 'B' can only be any combination of either NPT or Metric threads. Intermediate thread sizes are available on request. NPT threads should be tightened 'wrench tight'.

#### FITTING INSTRUCTIONS

#### **Metric Illustration**

#### **A2F-HTF-FC GLAND**

#### ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

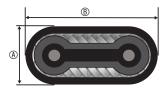
- Must be made from materials which are compatible with the cable gland materials. Have a sealing area around the cable gland entry point with a surface roughness
- < Ra 6.3 μm.
- Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- Are sealed using the supplied sealing gasket (parallel threads) or by fully tightening into a threaded entry (tapered threads). Note that for tapered threads the IP rating can be improved to IP68 with the use of a suitable thread sealant.

#### MUST HAVE THREADED ENTRIES

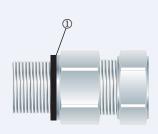
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

#### OR CLEARANCE HOLES (not Ex d)

- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)

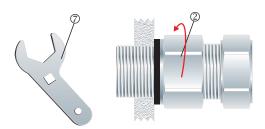


Measure the cable across its widest (B) and narrowest (A) dimensions to check for the correct fit.



To maintain IP66/68, ensure the gasket ① is in place.

If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.



Screw the gland unit into the apparatus. Tighten the inner until hand tight ② using a CCG Spanner 7 with 1/4 turn.



If the apparatus is untapped use a locknut.



Pass the cable end through the conduit assembly and the gland assembly. Tighten the outer ③ to the installation torque using a CCG Spanner ⑦ to produce a seal and grip on the cable.



5. Fit the threaded conduit end 6 into the conduit threads 5 as indicated.