



A2F-HTF

Ex db I/IIC, Ex eb I/IIC, Ex ta IIIC, Ex nR IIC **COMPRESSION GLAND 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.)

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







Technical Data

A2F-HTF

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

Stainless Steel 316/316L

Seal Material: Standard Thermoset Elastomer or Extreme Temperature Seals

Sealing Gasket Material: HDPE, Nylon 66 or PTFE Heat Trace Cable Type: Outer Sheath Sealing Area:

Optional Accessories: Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud

The installer should ensure that the materials are suitable for the

Standards and Certifications

Continuous Operating Temp:

IECEx: Ex db I/Ex eb I Mb, Ex db IIC / Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da ATEX/UKEX: ऒ M2 Ex db I / Ex eb I Mb, ऒ II 2/3 G 1D, Ex db IIC, Ex eb IIC **Equipment Protection Levels:**

Gb, Ex nR IIC Gc, Ex ta IIIC Da

CML 15Y728

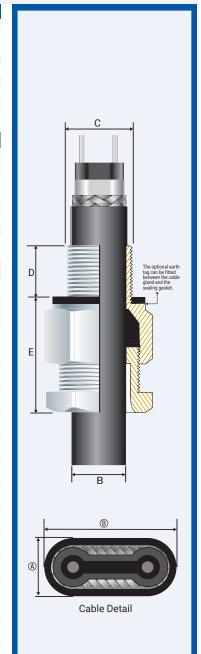
Standard Seals:-60°C to +95°C /100°C (HDPE/ Nylon Sealing Gasket)

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

Conformance: IEC/BS EN Standard: Certificate: IEC/BS EN 62444 CMI 14CA364 **IECEx** 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

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

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





Conditions for Safe Use - X

Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread						Maximum			Installation
		,C,	Min 'D'	,C,	Min 'D'	Min 'A'	Max 'A'	Min 'B'	Max 'B'	Length 'E'	Max 'Flats'	Max 'Crns'	Torque Value Nm
0450-0	0-20s	M20x1.5	15	1/2/3/4	15	4.2	6.4	8.8	11.0	30.5	24.0	27.0	32.5
045001	1-20	M20x1.5	15	1/2/3/4	15	4.2	8.0	10.9	14.0	36.0	27.0	30.0	32.5
045002	2-25	M25x1.5	15	3/4/1	15/19	4.8	7.0	13.7	16.0	36.0	35.0	39.0	47.5

FITTING INSTRUCTIONS

Metric Illustration



A2F-HTF COMPRESSION GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

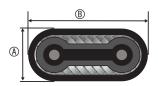
- Must be made from materials which are compatible with the cable gland materials.
 Have a sealing area around the cable gland entry point with a surface roughness
- Have a sealing area around the cable gland entry point with a surface roughness
 Ra 6.3 µm.
- Have entries that are perpendicular to the 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 20.7mm)
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)

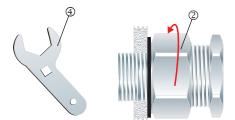


1. Measure the cable across its widest (B) and narrowest (A) dimensions to check for the correct fit.



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

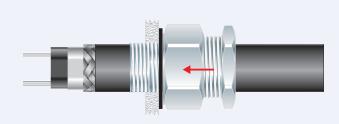
If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.



 Screw the inner ② into the apparatus. Tighten the inner ② to the installation torque using a CCG Spanner ④.



If the apparatus is untapped use a locknut.



4. Pass the cable end through the gland assembly.



5. Tighten the outer nut ③ to the installation torque using a CCG Spanner ④ to produce a seal and grip on the cable.