

A2F-HTF

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

COMPRESSION GLAND for Single or Multi-Core Unarmored 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

Brass (Marine Grade Electroless Nickel Plated™), Aluminium or Stainless Steel 316/316L Gland Material:

Seal Material: Standard Thermoset Elastomer or Extreme Temperature Seals

Sealing Gasket Material: HDPE, Nylon 66 or PTFE

Single or Multi-Core Unarmoured Heat Trace Cable Type:

Sealing Area: Outer Sheath

Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud **Optional Accessories:** The installer should ensure that the materials are suitable for the

installation environment.

Standards and Certifications

IECEX/INMETRO: Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, **Equipment Protection Levels:**

Ex nR IIC Gc, Ex ta IIIC Da

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

Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da

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

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

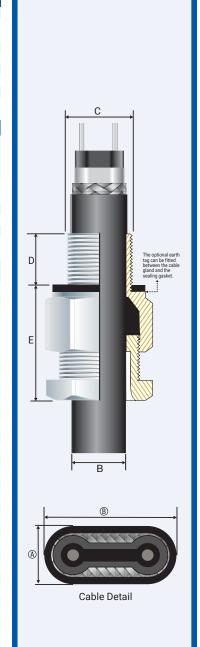
Conformance: Standard: Certificate:

IEC/BS EN IEC/BS EN 62444 CML 14CA364 IEC 60079 Part 0, 1, 7, 15, 31 IECEx TSA 23.0026 **IECEx** EN 60079 Part 0, 1, 7, 31 EN 60079 Part 15 CML 20ATEX1026 CML 22 ATEX 4116 **ATEX** BS EN 60079 Part 0, 1, 7, 31 **UKEX** CML 21UKEX1013 BS EN 60079 Part 15 CML 22UKEX4117 INMETRO (Brazil) ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31 TÜV 24.0267

MASC S/20-9022 SANS/IEC 60079 Part 0, 1, 7, 15, 31 SANS IP66/68 850m - Parallel IEC 60529 CML 15Y728

IP65/66 - Tapered IEC 60529

IP68 - Tapered and approved grease IEC 60529 IECEx TSA 23.0026 **Deluge Protection** DTS-01 CML 14CA370-2 ASTM B117-11, BS EN ISO 3231 Corrosion Protection EXOVA N968667





Conditions for Safe Use - X

None.

Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Detail				Maximum	Hexagonal Detail		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

All dimensions except NPT are in mm. Intermediate thread sizes are available on request. NPT threads should be tightened 'wrench tight'.

FITTING INSTRUCTIONS

Metric Illustration

A2F-HTF COMPRESSION GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

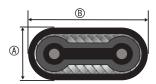
- Must be made from materials which are compatible with the cable gland materials. Have a sealing area around the cable gland entry point with a surface roughness < Ra 6.3 μm.
- Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- Are 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.)

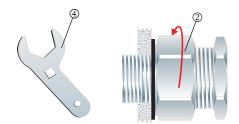


1. Measure the cable across its widest (B) and narrowest (A) dimensions to check for the correct fit.



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

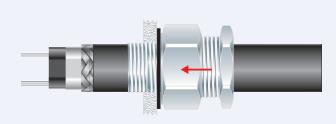
If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.



3. Screw the inner ${\mathbin{@}}$ into the apparatus. Tighten the inner ${\mathbin{@}}$ 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.