

A2F-HTF-FC

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

COMPRESSION GLAND with Conduit Connection* for Single or Multi-Core Unarmoured Heat Trace Cable (*Conduits with a swivel end connector only.)

Features and Benefits

Technical Data

- 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.



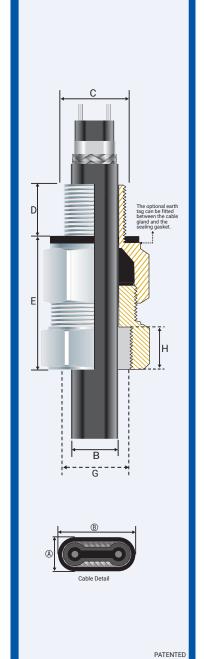




I Common Data							
Type:	A2F-HTF-FC						
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™), Aluminium, Stainless Steel 316/316L Standard Thermoset Elastomer or Extreme Temperature Seals						
Seal Material:							
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE						
Cable Type:	Single or Multi-core Unarmoured Heat Trace Housed in Conduit						
Sealing Area:	Outer Sheath						
Optional Accessories:	Adaptor, Reducer, Earth Tag, Locknut and Serrated Washer						
Note:	The installer should ensure that the materials are suitable for the installation environment						
Standards and Certifications	S						
Equipment Protection Levels:	IECEX/INMETRO: Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da ATEX/UKEX: ऒ M2 Ex db I Mb, Ex eb I Mb, ☐ II 2/3 G 1D Ex db IIC Gb, Ex eb IIC Gb. Ex nR IIC Gc. Ex ta IIIC Da						

		EX ED IIC GD, EX IIK 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					
	IECEx	IEC 60079 Part 0, 1, 7, 15, 31	IECEx TSA 23.0026					
	ATEX	EN 60079 Part 0, 1, 7, 31	CML 20ATEX1026					
		EN 60079 Part 15	CML 22ATEX4116					
	UKEX	BS EN 60079 Part 0, 1, 7, 31	CML 21UKEX1013					
		BS EN 60079 Part 15	CML 22UKEX4117					
	INMETRO (Brazil)	ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31	TÜV 24.0267					
	SANS	SANS/IEC 60079 Part 0, 1, 7, 15, 31	MASC S/20-9022					
	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





Conditions for Safe Use - X

Corrosion Protection

• None.															
Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Conduit Thread		Cable Detail			Max	Hexagonal Detail		Install. Torque	
		,C,	Min 'D'	,C,	Min 'D'	'G'	Length 'H'	Min 'A'	Max 'A'	Min 'B'	Max 'B'	Length 'E'	Max 'Flats'	Max 'Crns'	Value Nm
0451-0	0-20s	M20x1.5	15	1/2/3/4	15	M25x1.5	10	4.2	6.4	8.8	11.0	38.0	25/27	28/30	32.5
045101	1-20	M20x1.5	15	1/2/3/4	15	M25x1.5	10	4.2	8.0	10.9	14.0	42.0	27	30	32.5
045102	2-25	M25x1.5	15	3/4/1	15/19	M25x1.5	10	4.8	7.0	13.7	16.0	43.0	35	39	47.5

EXOVA N968667

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 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°.
- Āre 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

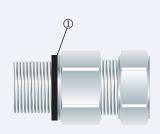
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

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.)

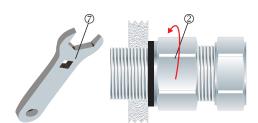


Measure the cable across its widest (B) and narrowest (A) dimensions to check for the correct fit.



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 ${\mathbb Q}$ using a CCG Spanner 7 with 14 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.