

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

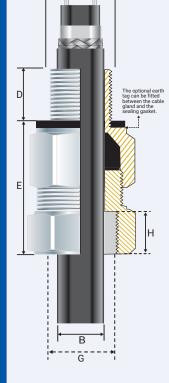
Features and Benefits

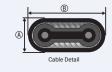
- Passes the IECEx / ATEX / UKEX 100% pull test so no additional cable clamping is required.
- For indoor, outdoor, Group I, II, III, Zone 1, 2, 20, 21 and 22 hazardous areas.
- Fitted with a specially formulated elastomeric displacement seal, giving superior cable retention, explosion protection and 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 not suitable for Group I applications.)
- With an M25 female thread to allow the attachment of flexible conduits. Other thread sizes are available on request. Supplied with a thread sealing gasket parallel threads only.

Technical Data

Туре:	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						

	Equipment Protection Levels:	IECEX: Ex db I/Ex eb I Mb, Ex db IIC / Ex e ATEX/UKEX: (2) I M2 Ex db I / Ex eb I Mb, Gb, Ex ta IIIC Da, Ex nR IIC Gc				
	Continuous Operating Temp:	Standard Seals:-60°C to +95°C /100°C (H Extreme Temp. Seals: -60°C to +160°C (P				
	Conformance:	Standard:	Certificate:			
	IEC/BS EN	IEC/BS EN 62444	CML 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			
	IP66/68 850m – Parallel	IEC 60529	CML 15Y728			
	IP65/66 – Tapered	IEC 60529				
	IP68 – Tapered and approved greas	eIEC 60529	IECEx CML 20.0011			
	Deluge Protection	DTS-01	CML 14CA370-2			
	Corrosion Protection	ASTM B117-11, BS EN ISO 3231	EXOVA N968667			





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Conditions for Safe Use - X

Product	Gland Size Reference	Metric Entry NP Thread		NPT Ent	ry Thread	Conduit Thread		Cable Detail				Max Length	Hexagonal Detail		Install. Torque
Code		'C'	Min 'D'	ʻC'	Min 'D'	'G'	Length 'H'	Min 'A'	Max 'A'	Min 'B'	Max 'B'	É'	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

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'. CCG reserves the right to make alterations to the technical data, dimensions, designs and products available without notice. The illustrations cannot be considered binding. Please contact CCG for assistance



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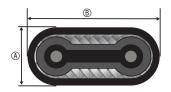
FITTING INSTRUCTIONS Metric Illustration



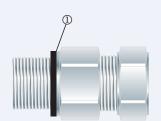
A2F-HTF-FC GLAND

- 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
- 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.

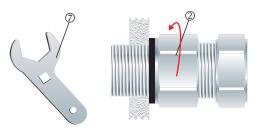
 MUST HAVE THREADED ENTRIES
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications
- OR CLEARANCE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



3. Screw the gland unit into the apparatus. Tighten the inner until hand tight 2 using a CCG Spanner 2 with ¼ turn.

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.

Alternative installation through an unthreaded entry.



If the apparatus is untapped use a locknut.



4. 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.