

A2F-FHC QuickStop-Ex[®]

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

BARRIER GLAND for Unfilled Unarmoured Cable Housed In Conduit

Features and Benefits

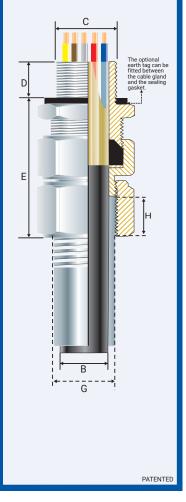
- For indoors, outdoors, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas.
- For use with all types of unarmoured cable housed in rigid or flexible conduit.
- Fitted with a rotating female conduit coupler.
- Outer seal grips the cable, giving superior cable retention and IP rating.
- Instantly mixed and injected Resin forms a 100% barrier seal around the individual cores of the cable.
- Prevents explosive gases and/or liquids transmitting down the cable.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated[™]) available in
- stainless steel 316/316L on request.
- Complete with thread sealing gasket.

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Technical Data							
Туре:	A2F-FHC QuickStop-Ex®						
Gland Material:	Brass (Marine Grade Electroless Nickel F Aluminium	Plated™) Stainless steel 316/316L,					
Seal Material:	Standard Thermoset Elastomer or Extrer Quick setting Injection Resin Barrier Seal	· · · · · ·					
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE						
Cable Type:	Unarmoured Housed in Conduit						
Sealing Area:	Outer Sheath and QuickStop [®] Resin around Cable Conductors						
Optional Accessories:	Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer						
Note:	The installer should ensure that the materials are suitable for the ins environment						
Standards and Certifications							
Equipment Protection Levels:	IECEX: EX db IIC Gb, EX eb IIC Gb, EX ta IIIC ATEX/UKEX: 🐼 II 2/3G 1D, EX db IIC Gb, EX						
Continuous Operating Temp:	-50°C to +95°C						
Conformance:	Standard:	Certificate:					

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Conformance:	Standard:	Certificate:
IEC/BS EN	IEC/BS EN 62444	CML 14CA364
IECEx	EN 60079 Part 0, 1, 7, 31	IECEx CML 20.0011
ATEX	EN 60079 Part 0, 1, 7, 31 EN 60079 Part 0, 15	CML 20ATEX1026 CML 22ATEX4116
UKEX	BS EN 60079 Part 0, 1, 7, 31 BS EN 60079 Part 0, 15	CML 22UKEX4117 CML 21UKEX4006X
TR CU (Russia)	ГОСТ 31610-0, 15, ГОСТ IEC 60079-1 ГОСТ Р МЭК 60079-7, 31	EAЭC RU C-ZA.HA91
SANS	SANS/IEC 60079 Part 0, 1, 7, 15, 31	MASC MS/22-9001X
IP66/68 100m - Parallel IP65/66 - Tapered IP68 - Tapered and approved grea	IEC 60529 IEC 60529 ase IEC 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

The cable glands shall only be used where the temperature, at the point of entry, is between -50°C to +95°C. The option of glands supplied with the metal sleeve may only be used with the cementing and metal sleeve, the sleeve may not be omitted.

Only Resin supplied by CCG may be used in the glands.

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Product Code	Gland Size Ref	Metric Entry Thread			NPT Entry Thread		Cable Detail		Female Conduit Thread			Max Dia.	Max No.	Hexagonal Detail		Install. Torque	
		'C'	Min 'D'	'C'	Min 'D'	Min 'B'	Max 'B'	Length 'E'	Metric 'G' (6g)	Metric 'H' (mm)	NPT 'G'	NPT 'H' (mm)	Over Cores	of Cores	Max 'Flats'	Max 'Crns'	Value Nm
0468-0	0-20s	M20x1.5	12	1/2	15	3.0	12.0	49.5	M16-M25 x 1.5	12	1/2/3/4	15	10.9	6	24.0	27.0	32.5
046801	1-20	M20x1.5	12	1/2	15	9.0	15.0	47.5	M16-M25 x 1.5	12	1/2/3/4	15	12.5	13	27.0	30.0	32.5
046802	2-25	M25x1.5	12	3⁄4	15	11.0	20.0	46.0	M25 x 1.5	12	3⁄4/1	15/19	15.5	20	35.0	39.0	47.5
046803	3-32	M32x1.5	12	1/1¼	19	16.0	26.5	52.0	M32 x 1.5	12	1¼	19	21.7	40	42.0	47.0	55.0
046804	4-40	M40x1.5	12	11/4/11/2	19/21	22.0	34.0	64.0	M40 x 1.5	12	11/4/11/2	19/21	30.0	60	52.0	59.0	65.0
046805	5-50	M50x1.5	12	2	21	29.0	44.5	65.0	M50 x 1.5	12	1½/2	21	36.3	80	65.0	73.0	82.5
046806	6-63	M63x1.5	12	21/2	30	38.0	56.5	78.0	M63 x 1.5	12	2/21/2	21/30	47.9	100	80.0	90.0	97.5
046807	7-75	M75x1.5	12	3	32	56.0	67.5	79.0	M75 x 1.5	12	21⁄2/3	30/32	58.2	120	96.0	108.0	115.5
046808	8-80	M80x2.0	16	3	32	59.0	69.0	79.0	M80 x 2.0	16	3	32	61.5	140	96.0	108.0	120.0
046809	9-90	M90x2.0	16	31⁄2	33	66.0	81.5	87.0	M90 x 2.0	16	3/31/2	33	70.5	160	111.0	125.0	120.0
046810	10-100	M100x2.0	16	4	34	72.0	92.0	88.0	M100 x 2.0	16	4	34	79.0	180	125.0	141.0	120.0



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

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

FITTING INSTRUCTIONS Metric Illustration



A2F-FHC QuickStop-Ex[®] BARRIER 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
- 1. Strip back the outer sheath to expose the inner cable cores. Using a clean cloth, clean the cable cores insulation.

If the cable cores have screens these should be cut away or twisted together into a single core. This single core should be insulated with heat shrink tubing or coated with insulating varnish. Any drain wires should also be insulated with heat shrink tubing or coated with insulating varnish.

- 2. Using insulation tape, bundle the cores together at the end.
- 3. To maintain IP66/68, ensure the thread gasket ① is in place. Screw the gland unit into the apparatus. Tighten the inner 2 until hand tight using a CCG Spanner 8 with ¼ turn. If the apparatus is untapped use a locknut.

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.

- Pass the bundled cable cores through the outer \Im and female rotating thread 4. Pass the bundled cables cores through the inner O and inner diaphragm seal.
- Tighten the outer ③ onto the inner ② until hand tight, then tighten with a CCG Spanner ⑧ with 34 turn.
- Unscrew the outer ③. Withdraw the barrier pot sub-assembly ⑤ and bundled cable. 6 Remove the insulation tape.
- Remove the cap \circledast from resin applicator and attach the mixing nozzle \circledast (use extension nozzle for small multicore cables). Whilst holding the barrier pot sub-assembly ® upright and holding the diaphragm seal firmly against the cable sheath inject the resin into the resin chamber*. Ensure the resin fills the inspectible resin seal pot 0 all the way to the top of the protective resin pot 0 and wipe any excess resin away.

Wait for the resin to set from a liquid to a gel, this should take:

- 15 minutes at 10°C
- . 7 minutes at 20°C • 6 minutes at 30°C
- 5 minutes at 40°C

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For installations in less than 5°C Ambient, warm the Resin Tube in warm water at ± 50°C. If there is still resin left in the tube, discard the mixing nozzle 9 and replace the cap 8 for use with the next gland.

- * The installation is acceptable if the cable sheath is pushed 2mm or 3mm into the resin seal.
- Pass the cable end through the barrier pot sub-assembly $\$ and through the inner $\$ 8.

Tighten the outer ③ onto the inner ② to the installation torque using a CCG Spanner ⑧.

- 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 +0.7 mm.
- (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.)











