

E1EX~QS



Ex d IIC, Ex e IIC, Ex nR IIC, Ex tb IIIC

BARRIER GLAND for Steel and Aluminium Armoured Cable

Features and Benefits

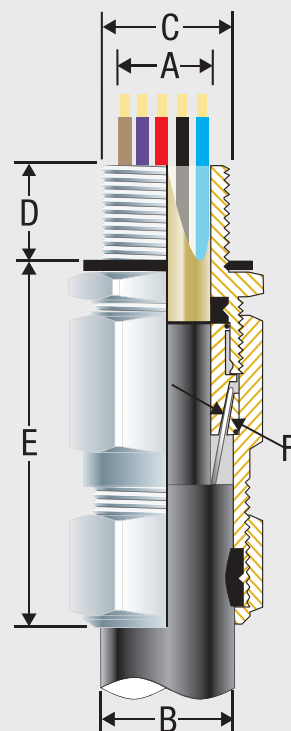
- For use indoors, outdoors and for Group II hazardous areas with unfilled hygroscopic multicore cables.
- Two part handling, no loose parts.
- Captive Cone and Cone Ring provides an armour clamp and earth bond for steel wire armour and aluminium armour.
- Instantly mixed and injected Resin.
- Resin forms a 100% barrier seal around the individual cores of the cable.
- Prevents gas and moisture transmitting down cable.
- Prevents explosive gases transmitting down cable.
- Precision manufactured from high quality brass (marine grade electroless nickel plated) or stainless steel.
- Complete with sealing gasket.

Technical Data

Type:	E1EX~QuickStopEx™
Gland Material:	Brass (Marine Grade Electroless Nickel Plated) or Stainless Steel
Seal Material:	Thermoset Elastomer (Standard) or Extreme Temperature Seals, Quick setting Barrier Resin
Cable Type:	Steel Wire Armour, Aluminium Armour
Armour Clamping:	Captive Cone and Cone Ring
Sealing Area:	Outer Sheath and around Cable Conductors
Optional Accessories:	Adaptor, Earth Tag, Locknut, Reducer, Serrated Washer and Shroud

Standards and Certifications

Equipment Protection Levels:	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex tb IIIC Db, II 2G, II 2D, II 3G	
Operating Temperature:	-20°C to +95°C Standard Seals or -50°C to +120°C Extreme Temp. Seals	
Ingress Protection:	IP66/68 (2m)	IEC 60529
Certification:		Standards:
IEC Ex	IECEx ITA 12.0014X	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31
ATEX	TÜV 13 ATEX 7397X	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31
	TÜV 13 ATEX 7422X	EN 60079-0, EN 60079-15
INMETRO	TÜV 15.0483X	ABNT NBR IEC 60079 Parts 0, 1, 7, 15 and 31
SANS/IEC	MASC MS/13-028X	SANS/IEC 60079-0, SANS/IEC 60079-1, SANS/IEC 60079-7, SANS/IEC 60079-15, SANS/IEC 60079-31
Marine	14-SG1216922-PDA	
Deluge Protection DTS-01	CML 14CA370-2	
EMC Compatible:	SGS EMC197708/1	



Manufactured by CCG Cable Terminations (Pty) Ltd



PATENTED

Conditions for Safe Use - X

- The cable glands shall only be used where the temperature, at the point of entry, is between -20°C and +95°C (standard seal) or -50°C to +120°C (extreme temp. seal) depending on non-metallic materials used.
- Only the resin as supplied by CCG may be used in the glands.

E1EX~QS Barrier Gland

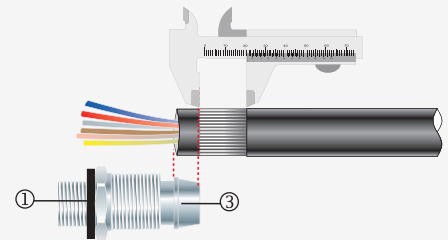
	MOFLASH Product Code	Gland Size Reference	Metric Entry Thread		Cable Detail				Max Length 'E'	Armour Dia		Hexagonal Detail		Install. Torque Value Nm
			'C'	'D'	Min 'A'	Max 'A'	Min 'B'	Max 'B'		Min 'F'	Max 'F'	Max 'Flats'	Max 'Crns'	
Brass	50202	1-20	M20x1.5	25	9	15	14.5	20.5	63	0.2	1.25	27	30	21
Stainless Steel	50212	1-20	M20x1.5	15	9	15	14.5	20.5	63	0.2	1.25	27	30	21

E1EX~QS Barrier Gland Ex d IIC, Ex e IIC, Ex nR IIC, Ex tb IIC

1. Separate the inner ① from the body ②. Cut back the cable outer sheath to expose the armour to a length as per the table below. Strip back the inner bedding to expose the inner cable cores using the cone ③ as a gauge.

Gland Size	Armour Length
1-20	25.0

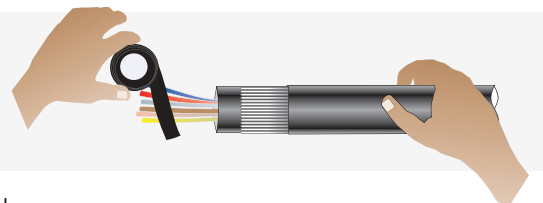
If the cable cores have screens these should be cut away or twisted together into a single core. This single core should be insulated with heat shrink tubing or coated with insulating varnish. Any drain wires should also be insulated with heat shrink tubing or coated with insulating varnish.



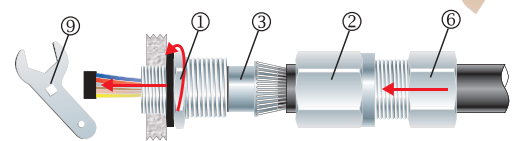
2. Using a cloth, clean the cable cores.



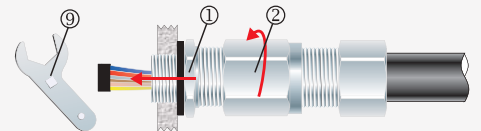
3. Using the insulation tape, bundle the cores together at the end.



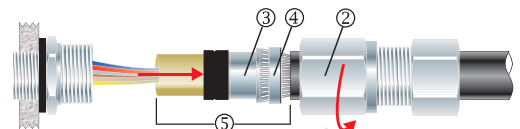
4. Ensure the thread gasket is in place. Screw the inner ① into the apparatus and tighten to the installation torque using a CCG Spanner ⑨. If the apparatus is untapped use a locknut. Pass the bundled cable cores through the outer nut ⑥ and the body ②. Pass the bundled cables cores through the inner ① and inner diaphragm seal and splay the armour wires over the cone ③.



5. Tighten the body ② onto the inner ① until hand tight, then tighten with a CCG Spanner ⑨ with 3/4 turn to lock the cone ring ④ onto the cone ③.



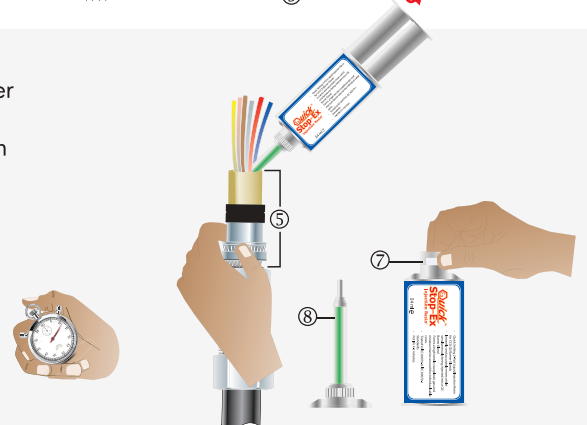
6. Unscrew the body ②. Check that the armoring has locked between the cone ③ and the cone ring ④ (O-Ring on the cone ring ④ is sacrificial). Withdraw the barrier pot sub-assembly ⑤ and bundled cables. Remove insulation tape.



7. Remove the cap ⑦ from resin applicator and attach the mixing nozzle ⑧ (use extension nozzle for small multicore cables). Whilst holding the barrier pot sub-assembly ⑤ upright and holding the diaphragm seal firmly against the cable sheath inject the resin into the resin chamber. Make sure the resin fills all the way to the top of the resin chamber and wipe any excess resin away.

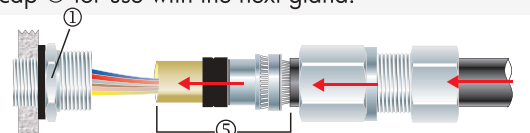
Wait for the resin to set from a liquid to a gel, this should take:

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



If there is still Resin left in the tube, discard the mixing nozzle ⑧ and replace the cap ⑦ for use with the next gland.

8. Re-insert the barrier pot sub-assembly ⑤ back into the inner ①.



9. Tighten the body ② onto the inner ① to the required torque using a CCG Spanner ⑨. Tighten the outer nut ⑥ to produce a moisture proof seal by turning until the seal makes contact with the outer sheath of cable and then make one full turn.

