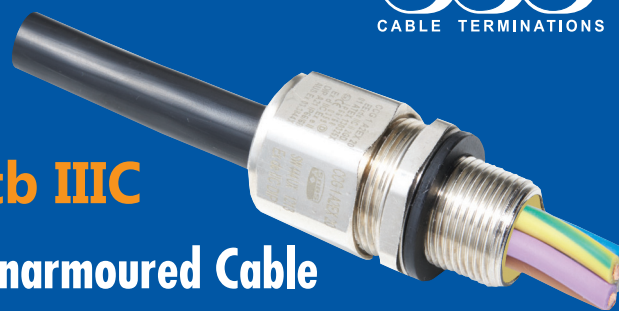


A2EX~QS



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

BARRIER COMPRESSION GLAND for Unarmoured Cable



Features and Benefits

- For use indoors, outdoors and hazardous areas with unfilled hygroscopic multicore cables.
- 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.

Technical Data

Type:	A2EX~QS
Gland Material:	Brass (Nickel Plated), Stainless Steel
Seal Material:	Thermoset Elastomer, Quick Setting Barrier Resin
Cable Type:	Unarmoured
Sealing Area:	Outer Sheath and Barrier Chamber
Optional Accessories:	Adaptor, Earth Tag, Locknut, Reducer, Serrated Washer and Shroud

Standards and Certifications

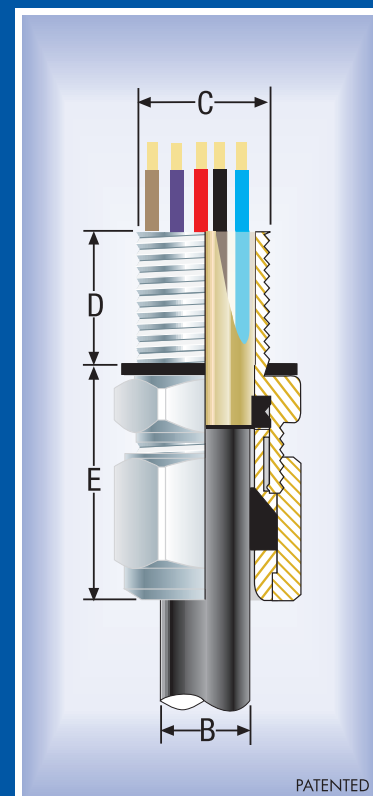
Equipment Protection Levels:	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex tb IIIC Db
	II 2G, II 2D, II 3G
Certification:	Standards:
Australian/New Zealand/IEC	IECEX ITA 12.0014X IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31
ATEX	TÜV 13 ATEX 7397X EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31
	TÜV 13 ATEX 7422X EN 60079-0, EN 60079-15
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	09-SG435709-PDA
Operating Temperature:	-20°C to +95°C
Ingress Protection:	IP 66/68 (2m) IEC 60529



Installation Standards

The use of A2EX~QS Barrier Cable Gland is prescribed by the installation standards as follows:

- Ex d AS/NZS/SANS/IEC 60079-14 Paragraph 9.3
- Ex d AS/NZS/SANS/IEC 60079-14 Paragraph 10.4.2
- Ex nR AS/NZS/SANS/IEC 60079-14 Paragraph 14.3.2.2
- Ex p AS/NZS/SANS/IEC 60079-14 Paragraph 13.1.7
- Ex i AS/NZS/SANS/IEC 60079-14 Paragraph 5.9



Product Code	Gland Size Reference	Entry Thread				Cable Details (Dia)		Max Length 'E'	Hexagonal Details (Max)		Install. Torque Value Nm
		Metric 'C'	Metric Min 'D'	NPT 'C'	NPT Min 'D'	Min 'B'	Max 'B'		'Flats'	'Crns'	
056400-16	00-16ss	M16x1.5	15	-	-	3.0	8.5	25.0	24.0	27.0	32.5
056400	00-20ss	M20x1.5	15	1/2/3/4	15	3.0	8.5	25.0	24.0	27.0	32.5
0564-0	0-20s	M20x1.5	15	1/2/3/4	15	7.0	12.0	25.0	24.0	27.0	32.5
056401	1-20	M20x1.5	15	1/2/3/4	15	9.0	15.0	30.0	27.0	31.0	32.5
056422	2s-25s	M25x1.5	15	3/4/1	15/19	11.0	17.5	30.0	35.0	40.0	47.5
056402	2-25	M25x1.5	15	3/4/1	15/19	14.0	20.0	30.0	35.0	40.0	47.5
056433	3s-32s	M32x1.5	15	1 1/4	19	15.0	22.0	30.0	42.0	48.0	55.0
056403	3-32	M32x1.5	15	1 1/4	19	19.0	26.5	30.0	42.0	48.0	55.0
056444	4s-40s	M40x1.5	15	1 1/4/1 1/2	19/21	22.0	31.5	38.0	52.0	60.0	65.0
056404	4-40	M40x1.5	15	1 1/4/1 1/2	19/21	26.0	34.0	38.0	52.0	60.0	65.0
056455	5s-50s	M50x1.5	15	1 1/2/2	21	29.0	38.0	46.0	65.0	75.0	82.5
056405	5-50	M50x1.5	15	1 1/2/2	21	34.0	44.5	46.0	65.0	75.0	82.5
056466	6s-63s	M63x1.5	15	2 2/2	21/30	38.0	50.0	52.0	80.0	90.0	97.5
056406	6-63	M63x1.5	15	2 2/2	21/30	44.0	56.5	52.0	80.0	90.0	97.5
056477	7s-75s	M75x1.5	15	2 1/2/3	30/32	50.0	62.0	54.0	96.0	110.0	115.5
056407	7-75	M75x1.5	15	2 1/2/3	30/32	56.0	67.5	54.0	96.0	110.0	115.5
056408	8-80	M80x2.0	20	3	32	59.0	69.0	68.0	96.0	110.0	120.0
056499	9s-90s	M90x2.0	20	3 3/3 1/2	32/33	66.0	75.0	70.0	111.0	125.0	120.0
056409	9-90	M90x2.0	20	3 3/3 1/2	32/33	74.0	81.5	70.0	111.0	125.0	120.0
056410	10-100	M100x2.0	20	3 1/2/4	33/34	81.0	91.0	70.0	125.0	142.0	120.0
056411	11-110	M110x2.0	20	4	34	86.0	101.0	70.0	135.0	152.0	175.0

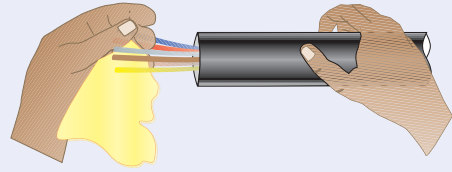
All dimensions except NPT are in mm.

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.

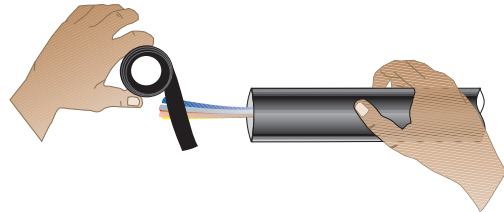
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A2EX~QS Barrier Gland Ex d IIC, Ex e IIC, Ex nR IIC, Ex tb IIIC

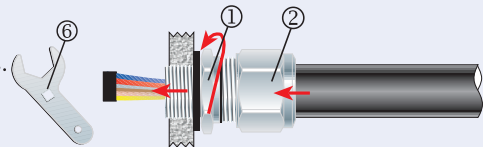
1. Strip back the outer sheath to expose the inner cable cores. Using a cloth, clean the cable cores insulation.



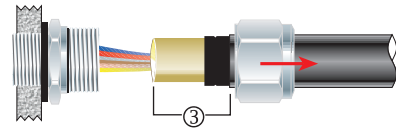
2. Using insulation tape, bundle the cores together at the end.



3. Ensure the thread gasket is in place. Screw the gland unit into the apparatus. Tighten the inner ① using a CCG Spanner ⑥. Pass the cable end through the outer nut ② and push the bundled cable cores through the inner ① diaphragm and seal.



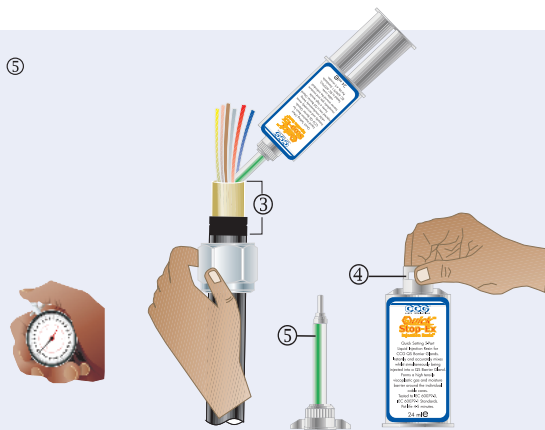
4. Withdraw the cable and gland sub-assembly ③. Remove the insulation tape.



5. Remove the cap ④ from resin applicator and attach the mixing nozzle ⑤ (use extension nozzle for small multicore cables). Whilst holding the gland sub-assembly ③ 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.

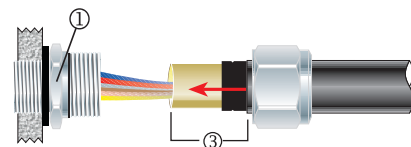
Wait for the resin to set from a liquid to a gel,
this should take:

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 ⑤ and replace the cap ④ for use with the next gland.

6. Re-insert the gland sub-assembly ③ back into the inner ①.



7. Tighten the outer nut ② to the installation torque using a CCG Spanner ⑥ to produce a seal and grip on the cable.

