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CCG CABLE TERMINATIONS

StopEx™

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

BARRIER CABLE GLAND for Armoured Cable

Features and Benefits

- Provides a barrier seal between the individual cores of the cable.
- Inspectable compound chamber.
- Prevents explosive gasses propagating through a cable.
- Prevents gas and moisture migrating through a cable.
- Precision manufactured from high quality brass (nickel plated) or stainless steel.

Technical Data

Type:	StopEx™ Barrier
Gland Material:	Brass (Nickel Plated) Stainless Steel or Bronze
Seal Material:	CCG FR308 Compound, Thermoset Elastomer
Cable Type:	Armoured Cable
Armour Clamping:	Captive Cone and Cone Ring
Sealing Area:	Inner compound barrier and outer sheath
Optional Accessories:	Adaptor, Earth Tag, Locknut, Reducer, Serrated Washer and Shroud

Standards and Certifications

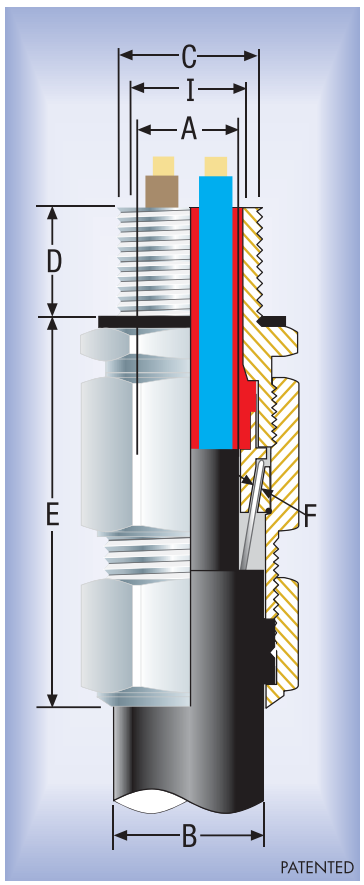
Equipment Protection Levels:	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex tb IIIC Db II 2G, II 2D, II 3G	
Certification:		Standards:
Australian/New Zealand/IEC	IECEx ITA 12.0014X	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31
ATEX	TÜV 13 ATEX 7397X	EN 60079-0, EN 60079-1, EN 60079-7,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

IECEx Ex CE ATEX MASC SABS APPROVED

Conditions and limitations for Safe Use - X

The use of StopEx™ Barrier Cable Gland is prescribed by the installation standards as follows:

- Ex d AS/NZS/IEC/SANS60079-14 Paragraph 9.3.1
- Ex d AS/NZS/IEC/SANS 60079-14 Paragraph 10.4.2
- Ex nR AS/NZS/IEC/SANS 60079-14 Paragraph -14.3.2.2
- Ex p AS/NZS/IEC/SANS 60079-14 Paragraph -13.1.7
- Ex i AS/NZS/IEC/SANS 60079-14 Paragraph 5.9



Product Code	Gland Size Ref	Metric Entry Thread 'C'	Min 'D'	NPT Entry Thread 'C'	Min 'D'	Cable Details Min 'A'	Max 'A'	Min 'B'	Max 'B'	Max Length 'E'	Armour Min 'F'	Armour Max 'F'	Dia Max 'I'	Dia Over Core Max	No. of Cores	A/F	Install. Torque Nm
051500-16	00-16ss	M16x1.5	15	-	-	3.0	8.5	8.0	13.5	54.0	0.90	0.90	9.0	8.0	6.0	24.0	21.0
051500	00-20ss	M20x1.5	15	½/¾	15	3.0	8.5	8.0	13.5	54.0	0.90	1.25	12.2	10.9	12.0	24.0	21.0
0515-0	0-20s	M20x1.5	15	½/¾	15	7.0	12.0	11.5	16.0	56.0	0.90	1.25	12.2	10.9	12.0	24.0	21.0
051501	1-20	M20x1.5	15	½/¾	15	9.0	15.0	14.5	20.5	60.0	0.90	1.25	12.3	11.0	12.0	27.0	21.0
051522	2s-25s	M25x1.5	15	¾/1	15	11.0	17.5	16.0	24.5	66.0	1.25	1.60	17.3	15.5	20.0	35.0	30.0
051502	2-25	M25x1.5	15	¾/1	19	14.0	20.2	20.5	26.5	66.0	1.25	1.60	17.3	15.5	20.0	35.0	30.0
051533	3s-32s	M32x1.5	15	1/1¼	19	15.0	22.0	23.0	30.5	75.0	1.60	2.00	24.3	21.7	40.0	42.0	42.0
051503	3-32	M32x1.5	15	1/1¼	19	19.0	26.5	26.5	33.5	75.0	1.60	2.00	24.3	21.7	40.0	42.0	42.0
051544	4s-40s	M40x1.5	20	1¼/1½	19	22.0	31.5	30.0	39.5	83.0	1.60	2.00	33.5	30.0	60.0	52.0	52.0
051504	4-40	M40x1.5	20	1¼/1½	21	26.0	34.5	33.0	42.5	83.0	1.60	2.00	33.5	30.0	60.0	52.0	52.0
051555	5s-50s	M50x1.5	20	1½/2	21	29.0	38.0	34.0	47.5	101.0	2.00	2.50	40.6	36.3	80.0	65.0	57.0
051505	5-50	M50x1.5	20	1½/2	21	34.0	44.5	42.5	52.5	101.0	2.00	2.50	40.6	36.3	80.0	65.0	57.0
051566	6s-63s	M63x1.5	20	2/2½	21	38.0	50.0	45.5	60.5	111.0	2.00	2.50	53.6	47.9	100.0	80.0	66.0
051506	6-63	M63x1.5	20	2/2½	30	44.0	57.0	52.5	65.5	111.0	2.00	2.50	53.6	47.9	100.0	80.0	66.0
051577	7s-75s	M75x1.5	20	2½/3	30	50.0	62.0	57.0	72.5	124.0	2.50	3.15	65.1	58.2	120.0	96.0	72.0
051507	7-75	M75x1.5	20	2½/3	30	56.0	68.0	65.5	78.0	124.0	2.50	3.15	65.1	58.2	120.0	96.0	72.0

All dimensions except NPT are in mm.

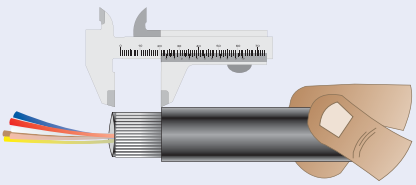
FITTING INSTRUCTIONS *Metric Illustration*

CCG CABLE TERMINATIONS

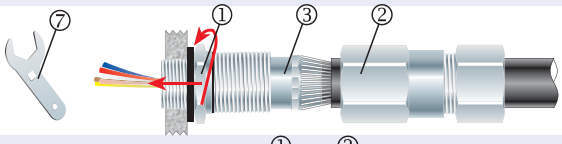
StopEx™ Barrier Cable Gland Ex d IIC, Ex e IIC, Ex nR IIC, Ex tb IIIC

1. Separate the inner ① from body ②. Prepare the cable by cutting back the outer sheath to expose armour to the length as per table below. Strip back the inner bedding in line with the end of the armour.

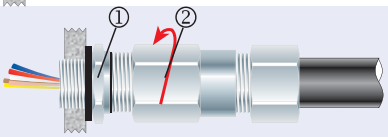
Gland Size	SWA Length	Gland Size	SWA Length	Gland Size	SWA Length
00-16ss	20.0	3s-32s	30.0	6s-63s	45.0
00-20ss	20.0	3-32	30.0	6-63	45.0
0-20s	20.0	4s-40s	30.0	7s-75s	50.0
1-20	25.0	4-40	30.0	7-75	50.0
2s-25s	25.0	5s-50s	35.0		
2-25	25.0	5-50	35.0		



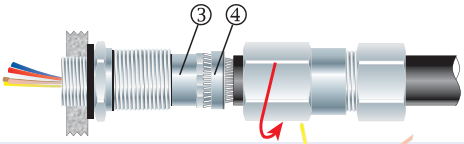
2. Screw the inner ① into apparatus. Tighten the inner ② to installation torque using a CCG Spanner ⑦. Pass the cable end through the inner ①. Pass the cable end through the body ②. Splay armour wires over the the cone ③.



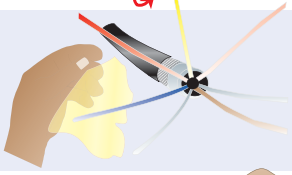
3. Tighten the body ② onto the inner ① to lock the cone ring ③ onto the cone ③.



4. Unscrew the body ②. Check that the armouring has locked between the cone ③ and the cone ring ④.

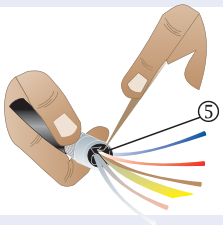


5. Withdraw the cable from the the inner ①. Splay the inner cable cores. Using a cloth, clean the cable cores insulation.

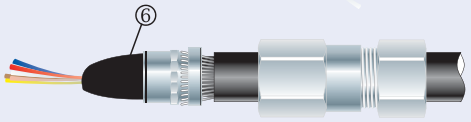


6. *Check the use by date on the compound.* Mix the two part compound until it is a single colour (black). Completely fill the compound chamber ⑤.

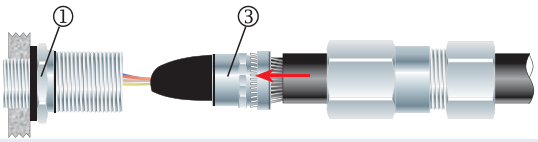
IMPORTANT: Only CCG FR308 compound provided may be used.



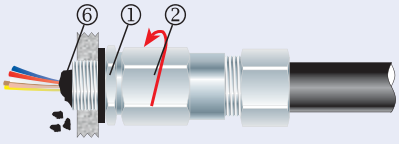
7. Bring the cores together. Completely fill all voids between and around the cores with all available compound ⑥ shaping the compound ⑥ into a taper.



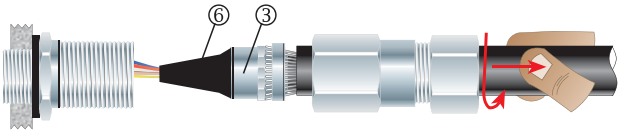
8. Pass the cores and cone ③ taper through the bore of the inner ①.



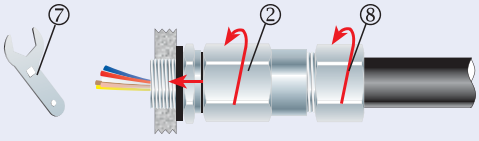
9. Screw the body ② onto the inner ① to a complete stop. Ensure the excess compound ⑥ emerging through bore of the gland is cleaned away thoroughly.



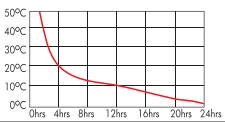
10. Allow the gland assembly to stand for 1-hour before disassembling gland. Gently twist and pull on the cable whilst dislodging the cone ③. Check the compound ⑥ seal is complete with no deformation (smooth surface).



11. Reassemble the gland and using a CCG Spanner ⑦ tighten the body ② and the outer nut ⑧ to produce a moisture proof seal by turning till the seal makes contract with the outer sheath of the cable then do one full turn.



12. Compound will harden after 4-hours at 21°C thereafter installation can be energized.



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