

CCG BarrierTex™ A

Ex d I/IIC barrier gland

for ARMoured CABLE



Features and Benefits

- Provides a barrier seal between the individual cores of the cable.
- Inspectable compound and flameproof 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:	BarrierTex™ A
Gland Material:	Brass (Nickel Plated), Stainless Steel, Bronze
Seal Material:	CCG FR308 or ST574 Compound, Thermoplastic Elastomer
Cable Type:	Armoured Cable
Armour Clamping:	Captive Cone and Cone Ring
Sealing Area:	Inner compound barrier and outer sheath

Standards and Certifications

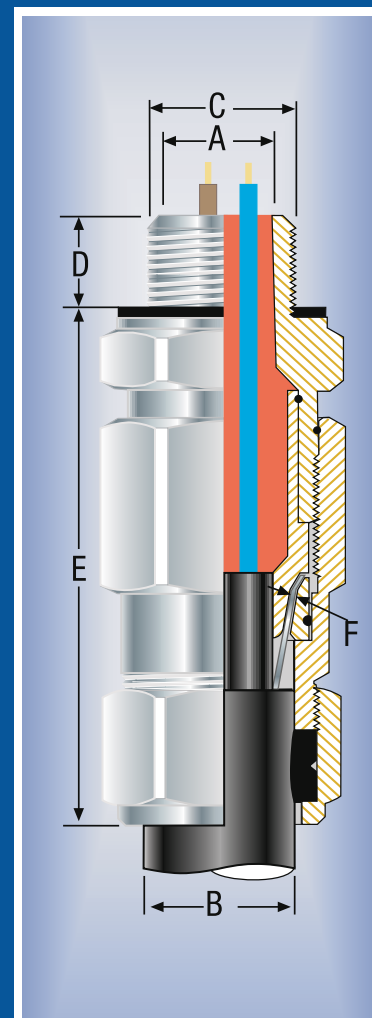
Hazardous Area Classification:	SANS IEC, ANZEx IEC,: Zone 1, 2, 21 and 22 Ex e, Ex d I/IIC Ex tD, A21 ATEX: Ex e I/IIC, Ex d I/IIC Ex tD A21	
Certification		Standards:
Australian/New Zealand/IEC	ANZEx 07.4045X	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 61241.1, IEC 61241-1
ATEX	SIRA 07 ATEX 1044X	EN60079-0, EN60079-1, EN60079-7, EN 61241-0, EN 61241-1
Marine	09-SG435709-PDA	
SANS/SABS/IEC	SAEx MS/06-425X	SANS 60079-0, SANS 60079-1, SANS 60079-7, SANS 61241-0, SANS 61241-1, IEC 60529
Operating Temperature:	-20°C to +80°C	
Ingress Protection:	IP 66/68 (2m cont.)	
Design Standards:	SANS 1213, BS 6121 Part 1, EN 50262	



Conditions and limitations for Safe Use - X

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

- Ex d IEC 60079-14 Paragraph 9.3.1
- Ex d IEC 60079-14 Paragraph 10.4.2
- Ex d SANS 10086-1 Paragraph 4.6.3.2.d.
- Ex d SANS 10086-2 Paragraph 9.6.14.3
- Ex d SANS 10086-2 Paragraph 9.7.2
- ExnR IEC 60079-14 Paragraph -14.3.2.2
- Exp IEC 60079-14 Paragraph -13.1.7
- Exi IEC 60079-14 Paragraph 5.9

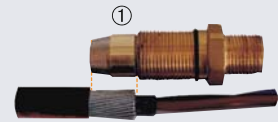


Product Code	Gland Size Ref.	Entry Thread				Cable Details			Dia Over Core Max	No. of Cores	Armour Wire Dia.		Overall Length Max 'E'	Hex Across 'Flats'	Installation Torque
		Metric 'C'	Metric Min 'D'	NPT/BSP 'C'	NPT/BSP Min 'D'	Min 'A'	Min 'B'	Max 'B'			Min 'F'	Max 'F'			
052500	00-20ss	M20x1.5	15	½ / ¾	17	11.8	8.0	13.5	9	6	0.2	1.25	82	25	24
0525-0	0-20s	M20x1.5	15	½ / ¾	17	11.8	11.5	16.0	9	6	0.2	1.25	85	25	24
052501	1-20	M20x1.5	15	½ / ¾	17	14.0	12.5	21.0	11	10	0.2	1.25	85	30	24
052502	2-25	M25x1.5	15	¾ / 1	17	18.5	18.0	27.0	16	20	0.2	1.6	100	38	33
052503	3-32	M32x1.5	15	1 / 1¼	17	26.5	23.0	34.0	22	40	0.2	2.0	107	45	47
052504	4-40	M40x1.5	20	1¼ / 1½	22	33.5	28.0	40.5	27	60	0.3	2.0	116	55	58
052505	5-50	M50x1.5	20	2	22	44.5	44.4	53.1	37	80	0.4	2.5	123	65	63
052506	6-63	M63x1.5	20	2½	22	55.5	54.6	65.9	48	100	0.4	2.5	136	85	73

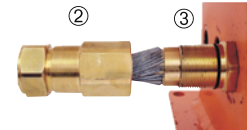
All dimensions except NPT are in mm.

CCG BarrierTex™ A Ex d I/IIc barrier glands

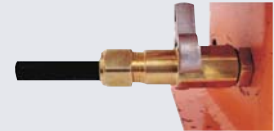
1. Separate the gland entry component inner ③ from gland rear body ②. Prepare the cable cutting back the outer sheath to expose armour to the length ① of the cone required. Strip back inner bedding to expose the inner cable cores.



2. Screw the entry component inner ③ into apparatus. Slide the rear body ② over the cable. Splay armouring over the cone.



3. Screw the rear body onto the inner and tighten to lock the cone ring onto the cone.



4. Disassemble the gland. The armour should now be locked between the cone and cone ring.



5. Withdraw the cable, cone ring, cone and compound chamber assembly from the inner. Splay the inner cable cores.



6. Check the use by date on the compound. Mix the two parts compound until it is a single colour. Completely fill the compound chamber.



7. Bring the cores together. With all available compound completely fill all voids between the cores and around cores, shaping the compound into a taper.



8. Pass cores and compound taper through bore of the inner.



9. Screw the body onto the inner to a complete stop. Make sure the compound emerging through rear entry is cleaned away thoroughly.



10. Allow gland assembly to stand for 1-hour before disassembling gland. Gently pull on the cable whilst dislodging chamber with a spanner.



11. Carefully withdraw the compound chamber and check the compound seal is complete.



12. Reassemble gland and tighten outer nut to achieve an IP68 seal on the cable.



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

IMPORTANT: Only CCG FR308 or ST574 compound provided may be used.

