



# E1EX

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



## CAPTIVE COMPONENT GLAND™ for Steel Wire and Aluminium Armoured Cable

### Features and Benefits

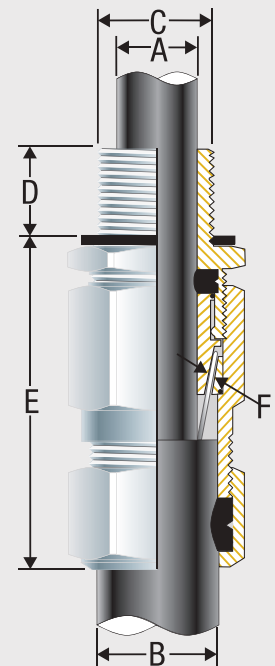
- For use indoors, outdoors and hazardous areas.
- Two part handling, no loose parts, freely rotating captive cone ring, providing an armour clamp and earth bond without twisting the armour wires.
- Captive Cone and Cone Ring provides an armour clamp and earth bond for steel wire and aluminium armour.
- Patented disconnect system that allows inspection of armour clamp and inner seal after assembly.
- Factory fitted with a specially formulated elastomeric seal for built-in safety™, seals on the inner sheath of the cable. Seals on inner sheath to IP66/68.
- Precision manufactured from high quality brass (marine grade electroless nickel plated) or stainless steel.
- Complete with sealing gasket and an end cap safety gauge for correct gland selection.

### Technical Data

Type:	E1EX
Gland Material:	Brass (Marine Grade Electroless Nickel Plated) or Stainless Steel
Seal Material:	Thermoset Elastomer (Standard) or Extreme Temperature Seals
Cable Type:	Steel Wire Armour and Aluminium Armour
Armour Clamping:	Captive Cone and Cone Ring
Sealing Area:	Inner 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		
Operating Temperature:	-20°C to +95°C Standard Seals or -60°C to +160°C Extreme Temp. Seals		
Ingress Protection:	IP66/68 (2m)	IEC 60529	
Certification:		Standards:	
IECEX	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		



PATENTED

Manufactured by CCG Cable Terminations (Pty) Ltd



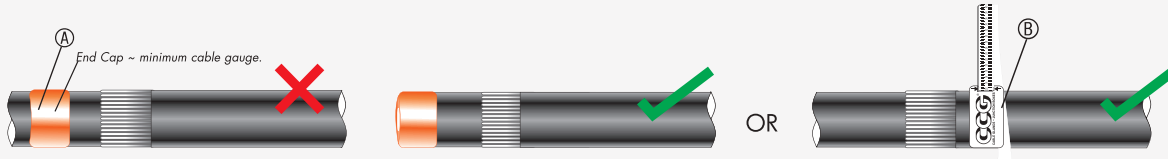
### Conditions for Safe Use - X

- 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 -60°C to 160°C (extreme temp. seal) depending on non-metallic materials used.
- According to IEC 60079-14, 10.6.2 the following must be adhered to: This gland will only maintain Ex d integrity when used with substantially round, compact and filled cable. If not a StopEx™ or QuickStop-Ex™ Barrier Gland should be used.

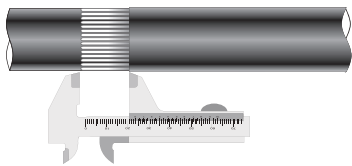
### E1EX Captive Component Gland™

	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	50200	1-20	M20x1.5	25	9	15	14.5	20.5	63	0.2	1.25	27	30	21
Stainless Steel	50210	1-20	M20x1.5	15	9	15	14.5	20.5	63	0.2	1.25	27	30	21

# E1EX Gland Ex d IIC, Ex e IIC, Ex nR IIC, Ex tb IIIC

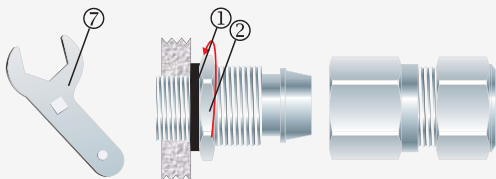


1. Check the correct gland size using an end cap (patented) ①. If the cable inner sheath passes through the hole in the end cap ①, use a gland one size smaller. For accurate sizing, use a CCG Dimension Tape ② on the inner and outer cable sheath.

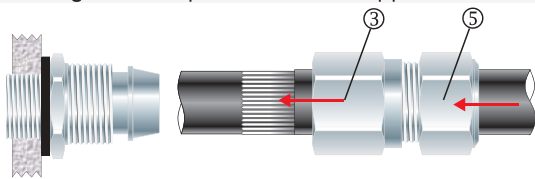


Gland Size	Armour Length
1-20	25.0

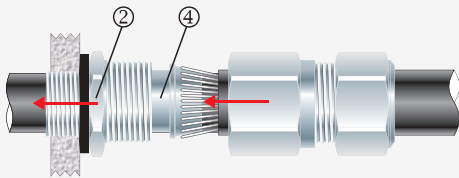
2. Cut back the cable outer sheath to expose the armour to a length as per the table above.



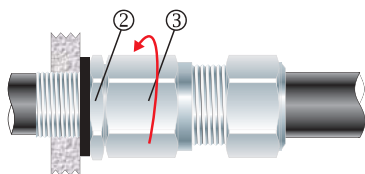
3. To maintain IP66/68 ensure the gasket ① is in place. Screw the inner ② into the apparatus. Tighten the inner ② to the installation torque using a CCG Spanner ⑦. If the apparatus is untapped use a locknut.



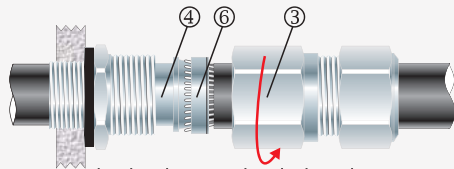
4. Pass the cable end through the outer nut ⑤ and the body ③.



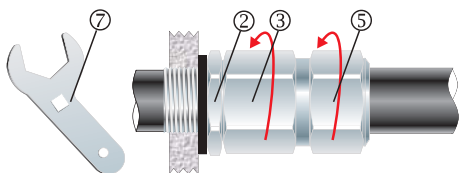
5. Pass the cable end through the inner ②. Splay the armour wires over the cone ④.



6. Tighten the body ③ onto the inner ② to lock the cone ring ⑥ onto the cone ④.



7. Unscrew the body ③. Check that the armouring has locked between the cone ④ and cone ring ⑥. (O-Ring on the cone ring ⑥ is sacrificial).



8. Tighten the body ③ onto the inner ② to the installation torque using a CCG Spanner ⑦. Tighten the outer nut ⑤ to produce a moisture proof seal by turning till the seal makes contact with the outer sheath of cable and then do one full turn.