

CCG E1EX

Ex de IIC Ex nR II



Captive Component Gland™ for MULTI ARMoured CABLE

Features and Benefits

- For use indoors, outdoors and hazardous areas.
- Two part handling, no loose parts. Multi armour captive cone and cone ring, providing an armour clamp and earth bond for steel wire armour, braid and tape armoured cable.
- No need to reverse cones or cone rings or change seals to accommodate different armour cables.
- Precision manufactured from high quality brass (nickel plated) or stainless steel. Patented disconnect system that allows inspection of armour clamp and inner seal after assembly.
- Factory fitted captive elastomeric seals for built in safety. Seals on both inner and outer sheaths to IP66/68.
- Complete with polypropylene sealing gasket and an end cap / safety gauge for correct gland selection.

Technical Data

Type:	E1EX
Gland Material:	Brass (Nickel Plated), Stainless Steel.
Seal Material:	Thermoplastic Elastomer (Silicone on request)
Cable Type:	Steel Wire, Braid, Tape Armour
Armour Clamping:	Multi Armour Cone and Cone Ring
Sealing Area:	Inner and Outer Sheath
Optional Accessories:	Adaptor/Reducer, Earth Tag, Hex Spanner, Locknut and Shroud

Standards and Certifications

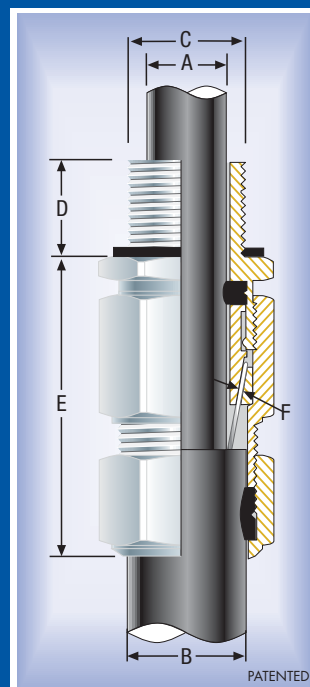
Hazardous Area Classification:	SANS IEC, AS/NZS IEC, CNEx: Zone 1, 2, 21 and 22 Ex de IIC Ex nR II DIP A21. ATEX: Category 2, Category 3, Ex de II 2 GD, IIC	
Certification:	Standards:	
Australian/New Zealand/IEC	ANZEx 03.4083X	AS/NZS 60079-0, AS/NZS 60079-1, AS/NZS 60079-7, AS/NZS60079-15, AS/NZS 61241.1, AS1939
ATEX	ECS 07 ATEX 2323X DEMKO 01 ATEX 130325X	EN60079-0, EN60079-1, EN60079-7 EN 50281-1-1
Chinese	CNEX 09.0427U	GB3836.1, GB3836.2, GB3836.3, GB12476.1
Marine	09-SG435709/1-PDA	
SANS/SABS/IEC	MASC S/10-209X	SANS 60079-0, SANS 60079-1, SANS 60079-7, SANS 60079-15, SANS 60529, SANS 61241.0/1
Operating Temperature:	-20°C to +80°C	
Ingress Protection:	IP 66/68 (2m cont.)	



Conditions and limitations for Safe Use - X

This gland must be used as part of a certified assembly in surface Group II installations only.

- According to IEC 60079-14 10.4.2 the following must be adhered to:
 - a. This gland will only maintain Ex d integrity when used with substantially round, compact and filled cable.
 - b. Not for use on Ex d equipment which has an internal ignition source in IIC gas areas. (CCG BarrierTex™ Cable Gland should be used).
 - c. Not for use on Ex d (category 2) equipment with an ignition source having a volume larger than 2000cm³ in Zone 1 areas. (CCG BarrierTex™ Cable Gland should be used).



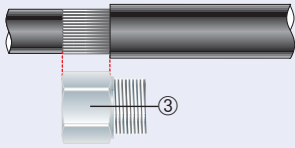
Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Details (Dia)				Armour Dia		Max. Length 'E'	Hexagonal Detail		Install. Torque Value Nm
		'C'	Min 'D'	'C'	Min 'D'	Min 'A'	Max 'A'	Min 'B'	Max 'B'	Min 'F'	Max 'F'		'Flats'	'Crms'	
052300-16	* 00 - 16ss	M16x1.5	15	-	-	3.0	8.0	8.0	13.5	0.2	1.25	53	24	27	21
052300	* 00 - 20ss	M20x1.5	15	1/2 / 3/4	15	3.0	8.0	8.0	13.5	0.2	1.25	53	24	27	21
052300	* 0 - 20s	M20x1.5	15	1/2 / 3/4	15	7.0	12.0	11.5	16.0	0.2	1.25	53	24	27	21
052301	* 1-20	M20x1.5	15	1/2 / 3/4	15	9.0	15.5	14.5	21.0	0.2	1.25	56	27	31	30
052302	* 2-25	M25x1.5	15	3/4	15	14.0	20.5	20.5	27.0	0.2	1.60	60	35	40	30
052302	* 2-25	M25x1.5	15	1	19	14.0	20.5	20.5	27.0	0.2	1.60	60	35	40	42
052303	* 3 - 32	M32x1.5	15	1 / 1 1/4	19	19.0	26.5	26.5	33.5	0.2	2.00	66	42	48	52
052304	4 - 40	M40x1.5	20	1 1/4	19	26.0	34.5	33.0	43.0	0.3	2.00	78	52	60	42
052304	4 - 40	M40x1.5	20	1 1/2	21	26.0	34.5	33.0	43.0	0.3	2.00	78	52	60	57
052305	5 - 50	M50x1.5	20	1 1/2	21	34.0	44.5	42.5	52.5	0.4	2.50	87	65	75	57
052306	6 - 63	M63x1.5	20	2	21	44.0	57.0	52.5	65.5	0.4	2.50	110	82	94	66
052306	6 - 63	M63x1.5	20	2 1/2	30	44.0	57.0	52.5	65.5	0.4	2.50	110	82	94	66
052307	7 - 75	M75x1.5	20	2 1/2	30	56.0	68.0	65.5	78.0	0.4	3.00	118	96	110	72
052307	7 - 75	M75x1.5	20	3	32	56.0	68.0	65.5	78.0	0.4	3.00	118	96	110	72
052308	8 - 80	M80x2.0	25	-	-	68.0	74.0	78.0	82.0	2.5	3.00	175	96	110	80
052309	9 - 90	M90x2.0	25	-	-	74.0	82.0	82.0	91.0	3.0	3.50	184	112	125	89
052310	10 - 100	M100x2.0	25	-	-	81.0	91.0	91.0	100.0	3.0	3.50	189	125	140	98
052311	11 - 115	M115x2.0	20	-	-	86.0	98.0	100.0	114.0	3.0	4.00	189	135	152	175
052312	12 - 120	M120x2.0	20	-	-	95.0	103.0	103.0	118.0	3.0	4.00	189	140	158	175
052313	13 - 130	M130x2.0	20	-	-	100.0	115.0	113.0	124.0	3.0	4.00	189	146	164	175

All dimensions except NPT are in mm.

Metric glands may be utilized with a locknut for increased safety (Ex e) only. * For use with CCG Posi Fit Boxes. † For use with CCG Hex Spanner.

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.

CCG E1EX Ex de IIC, Ex nR II Captive Component Gland™

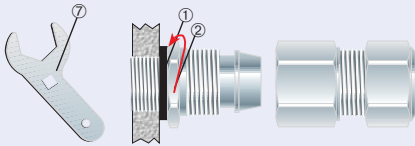


1. Cut back the cable outer sheath to expose the armour to a length not more than the outer ③.

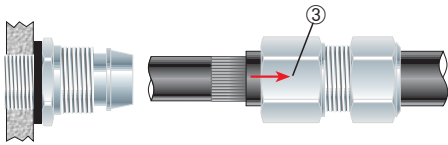
End Cap ~ minimum cable gauge.



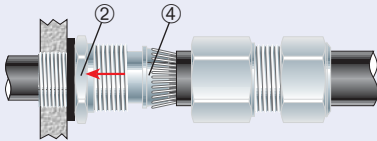
2. Check correct gland size. Use end cap (patented). If cable **inner sheath** passes through the hole in the end cap, use a gland one size smaller.



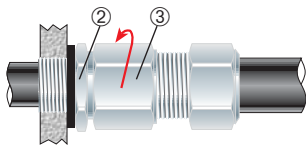
3. To maintain IP66/68 make sure gasket ① is in place. Screw inner ② into apparatus. Tighten inner ② to installation torque using a CCG Hex Spanner ⑦. If apparatus is untapped use a locknut.



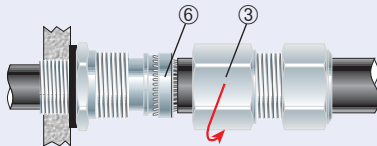
4. Pass outer ③ over cable and then splay armour wires.



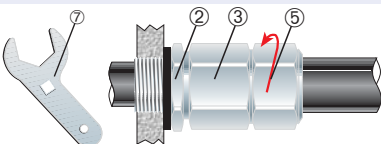
5. Pass cable end through inner ② and spread armour wire over cone ④.



6. Pass outer ③ over inner ② and tighten.



7. Unscrew outer ③. Check that the cone ring ⑥ has clamped the armouring.



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