

E1EX-U

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

CAPTIVE COMPONENT GLAND™ for Multi Armoured Cable



Features and Benefits

- For use indoors, outdoors and hazardous areas. Group I underground mining. Two part handling, no loose parts.
- Captive Cone and Cone Ring provides an armour clamp and earth bond for steel wire, aluminium, braid and tape armour.
- Precision manufactured from high quality brass (electroless 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 sealing gasket and an end cap safety gauge for correct gland selection.

Technical Data

Type:	E1EX-U (Universal)
Gland Material:	Brass (Electroless Nickel Plated) or Stainless Steel
Seal Material:	Thermoset Elastomer
Cable Type:	Steel Wire, Aluminium, Braided and Tape Armour
Armour Clamping:	Captive Cone and Cone Ring
Sealing Area:	Inner and Outer Sheath
Optional Accessories:	Adaptor, Earth Tag, Locknut, Reducer, Serrated Washer and Shroud

Standards and Certifications

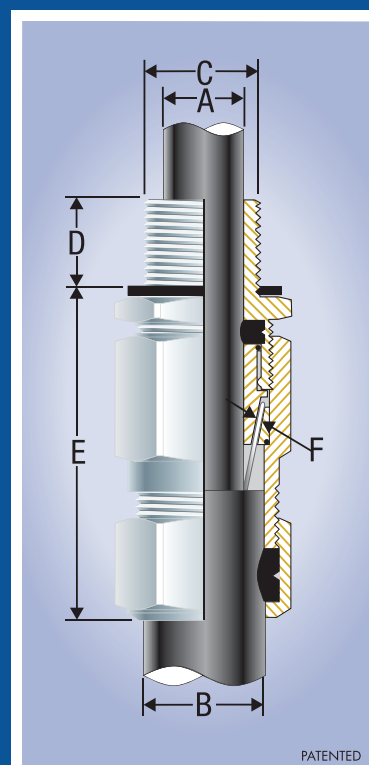
Equipment Protection Levels:	IECEx: Ex d IIC Gb, Ex d I/IIC MbGb, Ex e IIC Gb, Ex e I/IIC MbGb, Ex nR IIC Gc, Ex tb IIIC Db ATEX: I M2 Ex d I Mb, II 2 G Ex d IIC Gb, I M2 Ex e I Mb, II 2 G Ex e IIC Gb, II 3 Ex nR IIC Gc, II 2 D Ex tb IIIC Db	
Certification:	Standards:	
Australian/New Zealand/IEC	IECEx ITA 14.0008X	IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-15, IEC 60079-31
ATEX	TÜV 14 ATEX 7534X	EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31
Marine	14-SG1216922-PDA	
Operating Temperature:	-20°C to 95°C	
Ingress Protection - Parallel:	IP66/67/68 (2m cont.)	
Ingress Protection - Tapered:	IP65 (NPT)	



Conditions and limitations for Safe Use - X

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

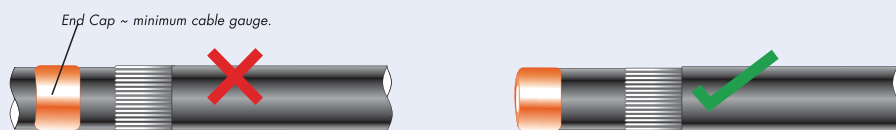
- According to IEC 60079-14, 10.4.2 the following must be adhered to:
 - This gland will only maintain Ex d integrity when used with substantially round, compact and filled cable.
 If not a CCG StopEx™ or CCG QuickStop-Ex™ Barrier Gland should be used.



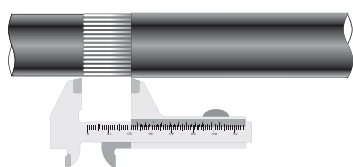
Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Detail				Max Length 'E'	Armour Dia		Hexagonal Detail		Install. Torque Value Nm
		'C'	Min 'D'	'C'	Min 'D'	Min 'A'	Max 'A'	Min 'B'	Max 'B'		Min 'F'	Max 'F'	Max 'Flats'	Max 'Crns'	
057100-16	00s-16ss	M16x1.5	15	-	15	3.0	8.5	5.0	10.5	60	0.20	0.90	25/27	28/30	21.0
057100S	00s-20ss	M20x1.5	15	1/2/3/4	15	3.0	8.5	5.0	10.5	60	0.20	0.90	25/27	28/30	21.0
057100	00-20ss	M20x1.5	15	1/2/3/4	15	3.0	8.5	8.0	13.5	60	0.20	0.90	25/27	28/30	21.0
0571-0S	0s-20s	M20x1.5	15	1/2/3/4	15	7.0	12.0	8.0	13.5	60	0.20	1.25	25/27	28/30	21.0
0571-0	0-20s	M20x1.5	15	1/2/3/4	15	7.0	12.0	11.5	16.0	60	0.20	1.25	25/27	28/30	21.0
057101	1-20	M20x1.5	15	1/2/3/4	15	9.0	15.0	12.5	20.5	73	0.20	1.25	30	34	21.0
057122	2s-25s	M25x1.5	15	3/4/1	15/19	11.0	17.5	16.0	24.5	82	0.20	1.60	38	43	30.0
057102	2-25	M25x1.5	15	3/4/1	15/19	14.0	20.0	18.0	27.0	82	0.20	1.60	38	43	30.0
057133	3s-32s	M32x1.5	15	1/1 1/4	19	15.0	22.0	20.0	30.5	91	0.20	2.00	45	51	42.0
057103	3-32	M32x1.5	15	1/1 1/4	19	19.0	26.5	23.0	33.5	91	0.20	2.00	45	51	42.0
057144	4s-40s	M40x1.5	15	1 1/4/1 1/2	19/21	22.0	31.5	26.5	39.5	105	0.30	2.00	55	62	52.0
057104	4-40	M40x1.5	15	1 1/4/1 1/2	19/21	26.0	34.0	28.0	40.0	105	0.30	2.00	55	62	52.0
057155	5s-50s	M50x1.5	15	1 1/2/2	21	29.0	38.0	35.2	47.5	123	0.40	2.50	65	73	57.0
057105	5-50	M50x1.5	15	1 1/2/2	21	34.0	44.5	40.4	52.5	123	0.40	2.50	65	73	57.0
057166	6s-63s	M63x1.5	15	2/2 1/2	21/30	38.0	50.0	45.5	60.5	147	0.40	2.50	85	96	66.0
057106	6-63	M63x1.5	15	2/2 1/2	21/30	44.0	56.5	54.4	65.5	147	0.40	2.50	85	96	66.0
057177	7s-75s	M75x1.5	15	2 1/2/3	30/32	50.0	62.0	59.0	72.5	149	0.40	3.15	96	108	72.0
057107	7-75	M75x1.5	15	2 1/2/3	30/32	56.0	67.5	65.0	78.0	149	0.40	3.15	96	108	72.0
057108	8-80	M80x2.0	20	3	32	59.0	69.0	65.0	77.5	195	0.40	3.15	96	108	80.0
057199	9s-90s	M90x2.0	20	3/3 1/2	32/33	66.0	75.0	73.0	86.5	204	0.40	3.50	111	125	89.0
057109	9-90	M90x2.0	20	3/3 1/2	32/33	74.0	81.5	82.0	91.0	204	0.40	3.50	111	125	89.0
057110	10-100	M100x2.0	20	3 1/2/4	33/34	81.0	91.0	90.0	100.0	209	0.40	3.50	125	141	98.0

All dimensions except NPT are in mm.

E1EX-U Gland Ex d I/IIC, Ex e I/IIC, Ex nR IIC, Ex tb IIIC

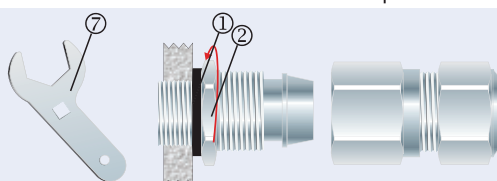


1. Check the correct gland size using an end cap (patented). If the cable inner sheath passes through the hole in the end cap, use a gland one size smaller.

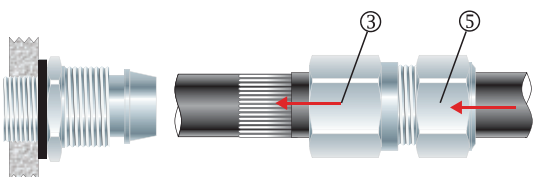


Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length
00-16ss	20.0	3s-32s	30.0	6s-63s	45.0	9-90	50.0
00-20ss	20.0	3-32	30.0	6-63	45.0	10-100	60.0
0-20s	20.0	4s-40s	30.0	7s-75s	50.0	11-115	60.0
1-20	25.0	4-40	30.0	7-75	50.0	12-120	60.0
2s-25s	25.0	5s-50s	35.0	8-80	50.0	13-130	60.0
2-25	25.0	5-50	35.0	9s-90s	50.0		

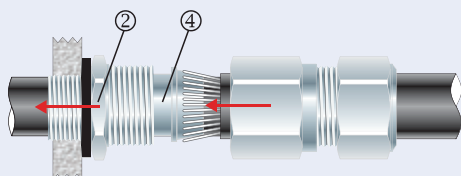
2. Cut back the cable outer sheath to expose the armour to a length as per the table above.



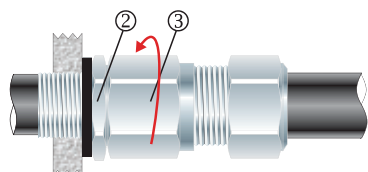
3. To maintain IP66/68 ensure the gasket ① is in place. Tighten the inner ② into the apparatus. Tighten the inner ② to the installation torque using a CCG Spanner ⑦. If apparatus is untapped use a locknut.



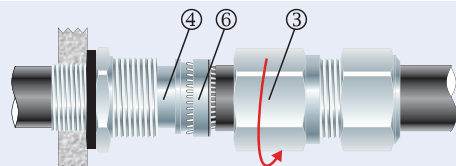
4. Pass the cable end through the outer nut ⑤ and the body ③.



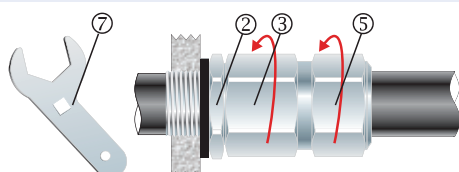
5. Pass the cable end through the inner ②. Splay the armour wires over the cone ④.



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.

YouTube Instruction Video: <http://youtu.be/Lw-LxOyyoV0>