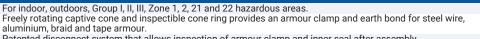


E1EX-U Ex db I/ IIC, Ex eb I/IIC, Ex ta IIIC, Ex nR IIC CAPTIVE COMPONENT GLAND® for Multi Armoured Cable

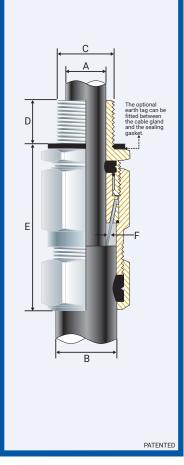
Features and Benefits



- 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. Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated[™]) available in
- stainless steel 316/316L on request. Supplied with a thread-sealing gasket (parallel threads only).
- **Technical Data** E1EX-U (Universal) Brass (Marine Grade Electroless Nickel Plated™), Stainless Steel 316/316L Type: Gland Material: Seal Material: Standard Thermoset Elastomer or Extreme Temperature Seals Sealing Gasket Material: Cable Type: Armour Clamping: HDPE, Nylon 66 or PTFE Steel Wire, Aluminium, Braided and Tape Armour Rotating Captive Cone and Inspectible Cone Ring Sealing Area: Inner Sheath and Outer Sheath Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud The installer should ensure that the materials are suitable for the **Optional Accessories:** Note: installation environment.

Standards and Certifications

Equipment Protection Levels:	IECEX/INMETRO: Ex db eb I Mb, Ex db eb IIC GI ATEX/UKEX: (2) I M2, (2) II 2/3G 1D, Ex db I M Ex nRIIC Gc, Ex ta IIIC Da TR CU: (2) 1Ex d IIC Gb X / PB Ex d I Mb X / (2) 1E 2Ex nR IIC Gc X / Ex tb IIIC Db X CCC: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da	b/ IIC Gb, Ex eb I Mb/IIC Gb,
Continuous Operating Temp:	Standard Seals: -60°C to +95°C /100°C (HDPE Extreme Temp. Seals: -60°C to +160°C (PTFE	/ Nylon Sealing Gasket) Sealing Gasket)
Conformance:	Standard:	Certificate:
IEC/BS EN	IEC/BS EN 62444	CML 14CA364
IECEx	IEC 60079 Part 0, 1, 7, 15, 31	IECEx TSA 22.0011X
ATEX	EN 60079 Part 0, 1, 7, 31	CML 16ATEX1001X
	EN 60079 Part 0, 15	CML 16ATEX4002X
UKEX	BS EN 60079 Part 0, 1, 7, 31	CML 21UKEX1011X
	BS EN 60079 Part 0, 15	CML 21UKEX4006X
INMETRO (Brazil)	ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31	TÜV 15.0483X
TR CU (Russia)	ГОСТ 31610-0, 15, ГОСТ ІЕС 60079-1 ГОСТ Р МЭК 60079-7, 31	EA9C RU C-ZA.HA91.B.00245/21
CCC/CNEx (Chinese)	GB/T3836.1, 2, 3, 31-2021	CNEx 21.3387X, CCC 2021312313000396
KCs (Korea)	Notification of Ministry of Labour No.2013-54	17-AV4BO-0087-90X
SANS	SANS/IEC 60079 Part 0, 1, 7, 15, 31	MASC MS/22-9001X
IP66/68 100m - Parallel	IEC 60529	CML 15Y728
IP65/66 - Tapered	IEC 60529	
IP68 - Tapered and approved grease		IECEx TSA 22.0011X
Deluge Protection	DTS-01	CML 14CA370-2
Corrosion Protection	ASTM B117-11, BS EN ISO 3231	EXOVA N968667
Marine ABS DNV	IEC 60079 Part 0, 1, 7, 15, 31, IEC 60529 IEC 60079 Part 0, 1, 7, 15, 31, IEC 60529	25-0164964-PDA TAE0000010
EMC Compatible	EN 55011, + A1, EN 55022	SGS EMC305079/1
	SGS [[][[x]]]\$	



Conditions for Safe Use - X The cable glands shall only be used where the temperature, at the point of entry, is between -60°C to +95°C (standard seals & HDPE sealing gaskets), -60°C to +100°C (standard seal and Nylon sealing gasket) or -60°C to +160°C (extreme temp. seal & PTFE sealing gasket) depending on seal and gasket used. Braided cables are only suitable for Group II or III applications with this gland and the user shall ensure adequate

clamping of the cable.

Note: According to IEC 60079-14, 10.6.2: An Ex d gland will only maintain Ex d integrity when used with substantially round, compact and filled cable. If not a CCG VORTEX® barrier gland should be used.

Due du et	Gland	Metric Entry	Thread	NPT Entr	y Thread		Cable De	tail		Max	Armour Dia		Hexagonal Detail		Install.
Product Code	Size Reference	ʻC'	Min 'D'	ʻC'	Min 'D'	Min 'A'	Max 'A'	Min 'B'	Max 'B'	Length 'E'	Min 'F'	Max 'F'	Max 'Flats'	Max 'Crns'	Torque Value Nm
057100-16	00-16ss	M16x1.5	15	-	-	3.0	8.5	5.0	10.5	60.0	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	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	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	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	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	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	82.4	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	0.20	1.60	38	43	30.0
057133	3s-32s	M32x1.5	15	1/1¼	19	15.0	22.0	20.0	30.5	91.0	0.20	2.00	45	51	42.0
057103	3-32	M32x1.5	15	1/1¼	19	19.0	26.5	23.0	33.5	91.0	0.20	2.00	45	51	42.0
057144	4s-40s	M40x1.5	15	11/4/11/2	19/21	22.0	31.5	26.5	39.5	105.0	0.30	2.00	55	62	52.0
057104	4-40	M40x1.5	15	11/4/11/2	19/21	26.0	34.0	28.0	40.0	105.0	0.30	2.00	55	62	52.0
057155	5s-50s	M50x1.5	15	$1\frac{1}{2}/2$	21	29.0	38.0	35.2	46.7	123.0	0.40	2.50	65	73	57.0
057105	5-50	M50x1.5	15	1½/2	21	34.0	44.5	44.4	53.0	123.0	0.40	2.50	65	73	57.0
057166	6s-63s	M63x1.5	15	2/21/2	21/30	38.0	50.0	45.5	59.4	147.0	0.40	2.50	85	96	66.0
057106	6-63	M63x1.5	15	2/21/2	21/30	44.0	56.5	54.6	65.9	147.0	0.40	2.50	85	96	66.0
057177	7s-75s	M75x1.5	15	21/2/3	30/32	50.0	62.0	59.0	72.5	149.0	0.40	3.15	96	102	72.0
057107	7-75	M75x1.5	15	21/2/3	30/32	56.0	67.5	65.0	78.0	149.0	0.40	3.15	96	102	72.0
057108	8-80	M80x2.0	20	3	32	59.0	69.0	65.0	77.5	195.0	0.40	3.15	96	102	80.0
057199	9s-90s	M90x2.0	20	3/31/2	32/33	66.0	75.0	73.0	86.5	204.0	0.40	3.50	111	125	89.0
057109	9-90	M90x2.0	20	3/31/2	32/33	74.0	81.5	82.0	91.0	204.0	0.40	3.50	111	125	89.0
057110	10-100	M100x2.0	20	31/2/4	33/34	81.0	91.0	90.0	100.0	209.0	0.40	3.50	125	141	98.0





FITTING INSTRUCTIONS Metric Illustration E1EX-U GLAND

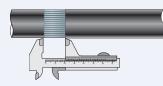


ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

- Must be made from materials which are compatible with the cable gland materials.
 Have a sealing area around the cable gland entry point with a surface roughness
- Ra 6.3 µm.
 Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- gland will seal to within 2.5°.
 Are sealed using the supplied sealing gasket (parallel threads) or by fully tightening into a threaded entry (tapered threads). Note that for tapered threads the IP rating can be improved to IP68 with the use of a suitable thread sealant.
- MUST HAVE THREADED ENTRIES

• The same thread size as the cable gland. (Thread adapters should be used to correct

- 1. For accurate sizing, use a CCG Dimension Tape (A) on the outer cable sheath.



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



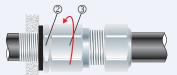
To maintain IP66/68 ensure the gasket ① is in place. Tighten the inner
 ② into the apparatus. Tighten the inner
 ② to the torque using a CCG Spanner
 ⑦.



4. Pass the outer nut 3 and the body 3 over the cable.



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



6. Tighten the body ③ onto the inner ② until hand tight, then tighten with a CCG Spanner ⑦ with ¾ turn to lock the armour between the cone ⑤ and the cone ring ⑥.



7. Unscrew the body ③. Check that the armour has locked between the cone ⑤ and cone ring ⑥ (O-Ring on the cone ⑤ and cone ring ⑥ are sacrificial).



8. Tighten the body ③ onto the inner ② to the installation torque using a CCG Spanner ⑦. Tighten the outer nut ④ to produce a moisture proof seal by turning until the seal makes contact with the outer sheath of cable and then make one full turn.

You Tube Instruction Video: http://youtu.be/Lw-LxOyyoV0

Gland Size Gland Size Armour Length Gland Size Gland Size Armour Length Armou Length Armour Length 00-16ss 20 5s-50s 50 35 00-20ss 20 20 25 3s-32s 30 5-50 35 8-80 50 50 50 3-30 4s-40s 6s-63s 6-63 9s-90s 9-90 0-20s 1-20 30 30 45 45

7s-75s

30

Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all

Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm.

Through material that is between 1mm and 12mm thick. (Thicker materials can be

(e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and

Alternative installation
through an unthreaded entry

If the apparatus is untapped use a locknut.

any mismatch).

20.7mm).

2s-25

other applications OR CLEARANCE HOLES (not Ex d)

With a thread tolerance of metric class '6H' or equivalent.

accommodated using glands with extended entry threads.)

4-40



50

10-100

60

If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.