

E1EX LEAD SEAL

Ex de IIC



CABLE GLAND for Lead Sheathed Armoured Cable

Features and Benefits

- For use indoors, outdoors and hazardous areas.
- Precision manufactured from high quality brass (nickel plated) or stainless steel. Patented disconnect system allows inspection of armour clamp and inner seal after assembly.
- Factory fitted captive elastomeric seals for *built-in safety™*. Seals on both inner lead sheath 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 Lead Seal
Gland Material:	Brass (Nickel Plated)
Seal Material:	Thermoset Elastomer and Lead
Cable Type:	Steel Wire Armour, Lead Sheath
Armour Clamping:	Captive Cone and Cone Ring
Sealing Area:	Inner Lead Sheath and Outer Sheath
Optional Accessories:	Adaptor, Earth Tag, Locknut, Reducer, Serrated Washer and Shroud

Standards and Certifications

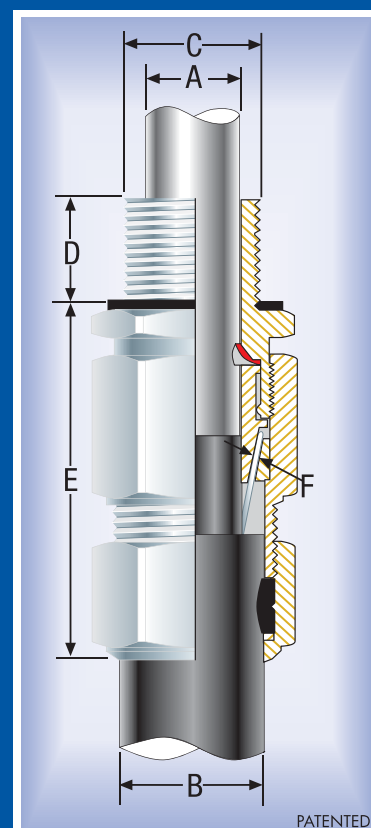
Hazardous Area Classification:	SANS IEC, Zone 1, 2, 21 and 22, Ex e IIC DIP A21 ATEX: Category 2, Category 3, I/II 2 GD, EEx de II 2
Certification:	Standards:
ATEX	DEMKO 01 ATEX 130325X EN 50014, EN 50018, EN 50019, EN 50281-1-1
SANS/SABS/IEC	SABS S/W 450U SANS 60079-0, SANS 60079-7, SANS 60529, SANS 61241.1.1
Marine	09-SG435709-PDA
Operating Temperature:	-30°C to +80°C
Ingress Protection:	IP66/68



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 Barrier Gland should be used.

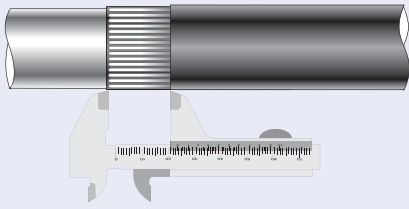


Product Code	Gland Size Ref	Entry Thread				Cable Details (Dia)				Max. Length 'E'	Armouring Wire Dia.		Hex. Across 'Flats'	Installation Torque Value Nm
		Metric 'C'	Metric Min 'D'	NPT 'C'	NPT Min 'D'	Lead Sheath		Min 'B'	Max 'B'		Min 'F'	Max 'F'		
						Min 'A'	Max 'A'							
052300-LS	00-20ss	-	-	½	15	3.0	8.0	8.0	13.5	53.0	0.20	1.25	24.0	35.0
0523-0-LS	0-20s	-	-	½	15	8.0	12.0	11.5	16.0	53.0	0.20	1.25	24.0	35.0
052301-LS	1-20	-	-	½/¾	15	11.0	15.5	14.5	21.0	56.0	0.20	1.25	27.0	35.0
052302-LS	2-25	M25x1.5	15	¾/1	15/19	13.0	16.5	20.5	27.0	60.0	0.20	1.60	35.0	50.0
052303s-LS	3s-32s	M32x1.5	15	1/1¼	19	16.0	19.0	26.5	33.5	66.0	0.20	2.00	42.0	70.0
052303-LS	3-32	M32x1.5	15	1/1¼	19	18.0	20.2	26.5	33.5	66.0	0.20	2.00	42.0	70.0
052304s-LS	4s-40s	M40x1.5	20	1¼/1½	19/21	20.5	25.0	33.0	43.0	78.0	0.30	2.00	52.0	90.0
052304-LS	4-40	M40x1.5	20	1¼/1½	19/21	23.0	29.0	33.0	43.0	78.0	0.30	2.00	52.0	90.0
052305s-LS	5s-50s	M50x1.5	20	1½/2	21	28.5	34.0	42.5	52.0	87.0	0.40	2.50	65.0	100.0
052305-LS	5-50	M50x1.5	20	1½/2	21	33.5	36.0	42.5	52.0	87.0	0.40	2.50	65.0	100.0
052306s-LS	6s-63s	M63x1.5	20	2/2½	21/32	35.5	39.0	52.0	65.0	110.0	0.40	2.50	82.0	120.0
052306m-LS	6m-63m	M63x1.5	20	2/2½	21/32	38.5	42.0	52.0	65.0	110.0	0.40	2.50	82.0	120.0
052306L-LS	6-63	M63x1.5	20	2/2½	21/32	41.5	44.0	52.0	65.0	110.0	0.40	2.50	82.0	120.0
052307s-LS	7s-75s	M75x1.5	20	2½/3	30/32	43.0	49.0	64.0	78.0	118.0	0.40	3.15	96.0	120.0
052307m-LS	7m-75m	M75x1.5	20	2½/3	30/32	48.0	54.0	64.0	78.0	118.0	0.40	3.15	96.0	120.0
052307L-LS	7L-75L	M75x1.5	20	2½/3	30/32	53.0	59.0	64.0	78.0	118.0	0.40	3.15	96.0	120.0

All dimensions except NPT are in mm.

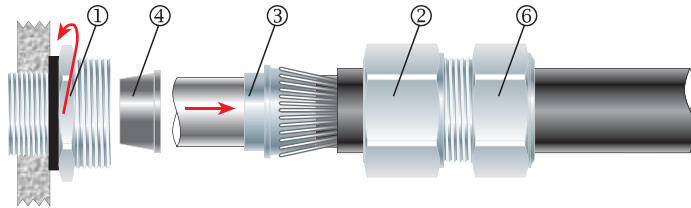
Exact dimensions of the cable lead sheath must be submitted to CCG before ordering.

E1 EX LEAD SEAL Cable Gland Ex de IIC

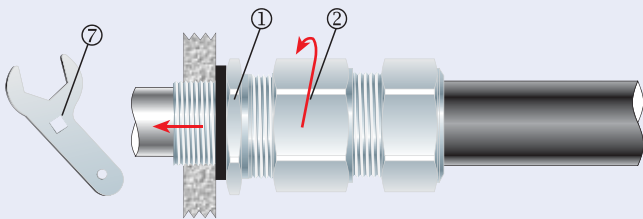


Gland Size	SWA Length	Gland Size	SWA Length	Gland Size	SWA Length
00-16ss	20.0	3-32	30.0	6m-63m	45.0
00-20ss	20.0	4s-40s	30.0	6L-63L	45.0
0-20s	20.0	4-40	30.0	7s-75s	50.0
1-20	25.0	5s-50s	35.0	7m-75m	50.0
2-25	25.0	5-50	35.0	7L-75L	50.0
3s-32s	30.0	6s-63s	45.0		

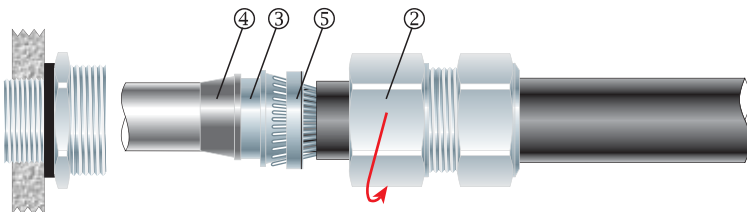
1. Cut back the cable outer sheath to expose the armour to a length as per the table above. Cut back the inner sheath to just before the armouring to expose lead sheath.



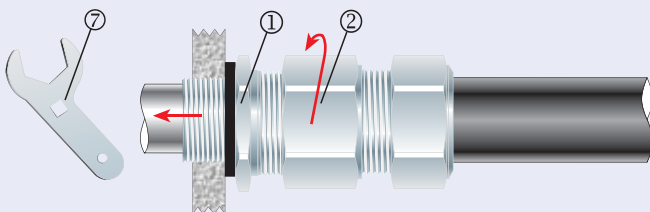
2. To maintain IP66/68 ensure the gasket ① is in place. Screw gland unit onto the apparatus and tighten the inner ① to installation torque using a CCG Spanner. Pass the outer nut ⑥ and the body ② over the cable. Splay the armour wires over the cone ③. Pass the lead seal ④ over the lead sheath.



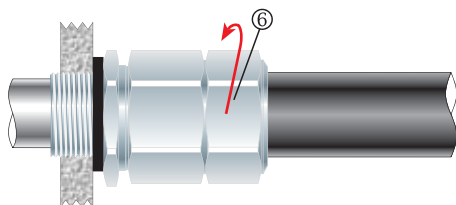
3. Pass the cable end through the inner ① and tighten the body ② onto the inner ① to the installation torque using a CCG Spanner ⑦. If apparatus is untapped use a locknut.



4. Unscrew the body ② and check that lead seal ④ has bonded onto the lead of the cable (lead seal must be tight). Check that the armouring has locked between the cone ③ and the cone ring ⑤.



5. Pass the cable end through the inner ① and tighten the body ② onto the inner ① to the installation torque using a CCG Spanner ⑦.



6. Tighten the outer nut ⑥ to produce a moisture proof seal by turning till the seal makes contact with outer sheath of cable and then do one full turn.