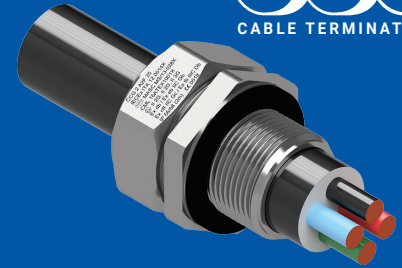


A2F

Ex db IIC, Ex eb IIC, Ex tb IIIC, Ex nR IIC

COMPRESSION GLAND for Unarmoured Cable



Features and Benefits

- For indoor, outdoor, Group II, III, Zone 1, 2, 21 and 22 hazardous areas.
- Fitted with a specially formulated elastomeric displacement seal, giving superior cable retention, explosion protection and IP rating.
- Precision manufactured from high quality brass (marine grade electroless nickel plated) or stainless steel.
- Supplied with a thread sealing gasket.

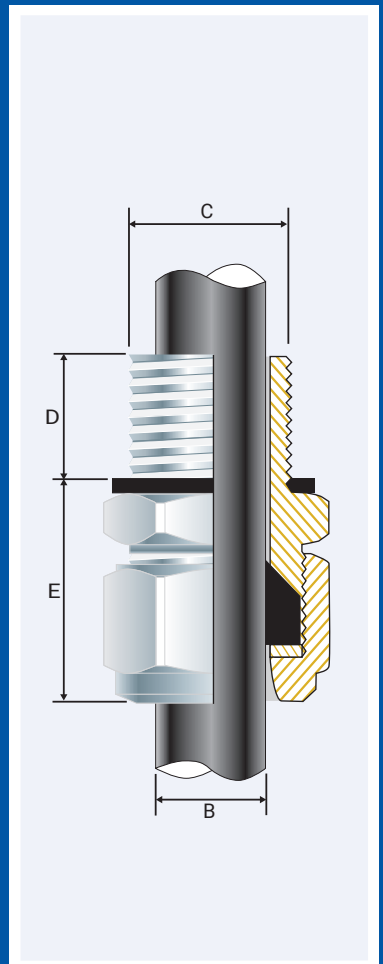


Technical Data

Type:	A2F	
Gland Material:	Brass (Marine Grade Electroless Nickel Plated) or Stainless Steel	
Seal Material:	Standard Thermoset Elastomer or Extreme Temperature Seals	
Cable Type:	Unarmoured	
Sealing Area:	Outer Sheath	
Optional Accessories:	Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud	

Standards and Certifications

Equipment Protection Levels:	IECEx: Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex tb IIIC Db ATEX: II 2GD, II 3G, Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db, Ex nR IIC Gc TR CU: 1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex tb IIIC Db X	
Operating Temperature:	-20°C to +95°C Standard Seals or -60°C to +160°C Extreme Temp. Seals (continuous)	
Conformance:	Standard:	Certificate:
IEC/BS EN	IEC/BS EN 62444	CML 14CA364
IECEx	IEC 60079 Parts 0, 1, 7, 15 and 31	IECEx ITA 12.0014X
ATEX	EN 60079 Parts 0, 1, 7 and 31 EN 60079 Parts 0 and 15	CML 16ATEX1001X CML 16ATEX4002X
INMETRO (Brazil)	ABNT NBR IEC 60079 Parts 0, 1, 7, 15 and 31	TÜV 15.0483X
TR CU (Russia)	ГОСТ Р МЭК 60079-0, 7, 15, 31 ГОСТ IEC 60079-1	RU C-ZA.ME92.B.00690
KCs (Korean)	Notification of Ministry of Labour No.2013-54	16-AV4BO-0282-5X
SANS	SANS 60079 Parts 0, 1, 7, 15 and 31	MASC MS/13-028X
IP66/68 100m - Parallel	IEC 60529	CML 15Y728
IP65 - Tapered	IEC 60529	
Deluge Protection	DTS-01	CML 14CA370-2
Corrosion Protection	ASTM B117-11, BS EN ISO 3231	EXOVA N968667
Marine ABS	IEC/EN 60079 Parts 0, 1, 7, 15 and 31	ABS 14-SG1216922-PDA
DNV-GL	IEC/EN 60079 Parts 0, 1, 7, 15 and 31	DNV-GL TAE0000010



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).
- The cable glands may only be used on fixed installations where the cable is clamped or stress applied to the cable in the gland is prevented.
- According to IEC 60079-14, 10.6.2: This gland will only maintain Ex d integrity when used with substantially round, compact and filled cable. If not a CCG QuickStop-Ex™ barrier gland should be used.

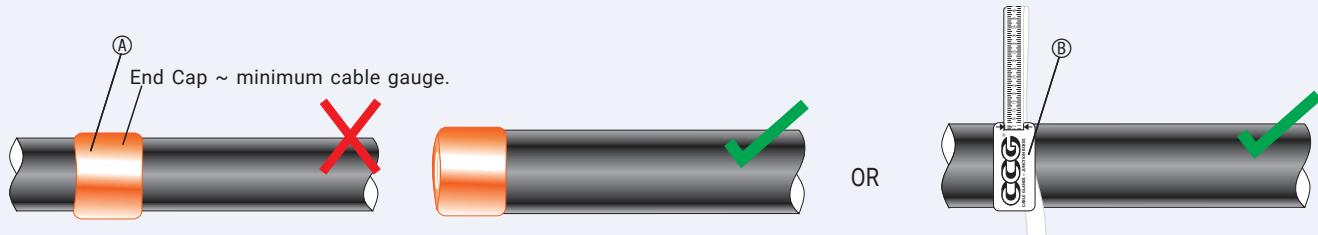
Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Detail		Maximum Length 'E'	Hexagonal Detail		Installation Torque Value Nm
		'C'	Min 'D'	'C'	Min 'D'	Min 'B'	Max 'B'		Max 'Flats'	Max 'Crns'	
054100-16	00-16ss	M16x1.5	15	-	-	3.0	8.5	25.0	▲ 24.0	27.0	32.5
054100	00-20ss	M20x1.5	15	1/2/3/4	15	3.0	8.5	25.0	▲ 24.0	27.0	32.5
0541-0	0-20s	M20x1.5	15	1/2/3/4	15	7.0	12.0	25.0	▲ 24.0	27.0	32.5
054101	1-20	M20x1.5	15	1/2/3/4	15	11.0	15.0	30.0	▲ 27.0	30.0	32.5
054122	2s-25s	M25x1.5	15	3/4/1	15/19	11.5	17.5	30.0	▲ 35.0	39.0	47.5
054102	2-25	M25x1.5	15	3/4/1	15/19	15.0	20.0	30.0	▲ 35.0	39.0	47.5
054133	3s-32s	M32x1.5	15	1/1 1/4	19	16.0	22.0	30.0	▲ 42.0	47.0	55.0
054103	3-32	M32x1.5	15	1/1 1/4	19	20.0	26.5	30.0	▲ 42.0	47.0	55.0
054144	4s-40s	M40x1.5	15	1 1/4/1 1/2	19/21	22.0	31.5	38.0	▲ 52.0	59.0	65.0
054104	4-40	M40x1.5	15	1 1/4/1 1/2	19/21	26.0	34.0	38.0	▲ 52.0	59.0	65.0
054155	5s-50s	M50x1.5	15	1 1/2/2	21	29.0	38.0	46.0	▲ 65.0	73.0	82.5
054105	5-50	M50x1.5	15	1 1/2/2	21	34.0	44.5	46.0	▲ 65.0	73.0	82.5
054166	6s-63s	M63x1.5	15	2/2 1/2	21/30	38.0	50.0	52.0	▲ 80.0	90.0	97.5
054106	6-63	M63x1.5	15	2/2 1/2	21/30	44.5	56.5	52.0	▲ 80.0	90.0	97.5
054177	7s-75s	M75x1.5	15	2 1/2/3	30/32	50.0	62.0	54.0	▲ 96.0	108.0	115.5
054107	7-75	M75x1.5	15	2 1/2/3	30/32	56.0	67.5	54.0	▲ 96.0	108.0	115.5
054108	8-80	M80x2.0	20	3	32	54.0	69.0	68.0	▲ 96.0	108.0	120.0
054199	9s-90s	M90x2.0	20	3/3 1/2	32/33	60.0	75.0	70.0	◆ 111.0	125.0	120.0
054109	9-90	M90x2.0	20	3/3 1/2	32/33	73.0	81.5	70.0	◆ 111.0	125.0	120.0
054110	10-100	M100x2.0	20	3 1/2/4	33/34	81.0	92.0	70.0	◆ 125.0	141.0	120.0
054111	11-110	M110x2.0	20	4	34	91.0	101.0	70.0	◆ 135.0	152.0	175.0
054112	12-120	M120x2.0	20	-	-	101.0	109.0	70.0	◆ 140.0	158.0	175.0
054113	13-130	M130x2.0	20	-	-	109.0	116.0	70.0	◆ 146.0	164.0	175.0

All dimensions except NPT are in mm. ▲ For use with CCG Hex Spanner. ◆ For use with CCG C-Spanner.

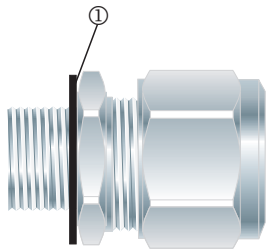
CCG reserves the right to make alterations to the technical data, dimensions, designs and products available without notice. The illustrations cannot be considered binding. Please contact CCG for assistance.

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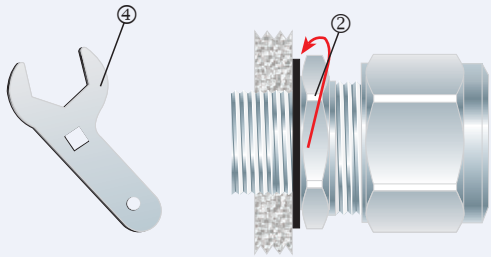
A2F COMPRESSION GLAND Ex db IIC, Ex eb IIC, Ex tb IIIC, Ex nR IIC



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

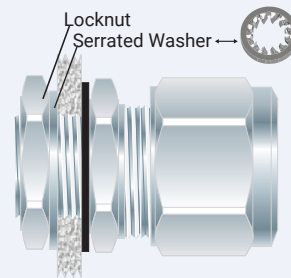


2. To maintain IP66/68 ensure the gasket ^① is in place.

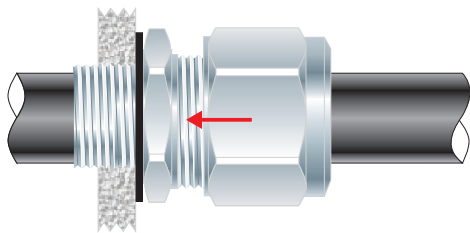


3. Screw the inner ^② into the apparatus. Tighten the inner ^② to the installation torque using a CCG Spanner ^④.

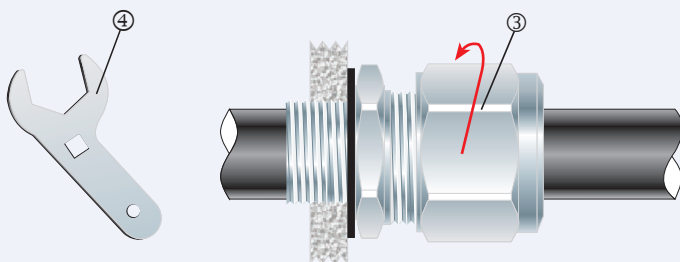
Alternative installation through an unthreaded entry.



If the apparatus is untapped use a locknut.



4. Pass the cable end through the gland assembly.



5. Tighten the outer nut ^③ to the installation torque using a CCG Spanner ^④ to produce a seal and grip on the cable.

YouTube Instruction Video: <http://youtu.be/3Mo-Utop3AY>