

2024 @ CCG CABLE TERMINATIONS (PTY) LTD



A2EX-VS

Ex db IIC, Ex eb IIC, Ex ta IIIC, Ex nR IIC

CABLE GLAND for Copper Tape, Braided or Lead-Sheathed Cable

Features and Benefits

Seal Material:

- Indoor, outdoor, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas. The inner seal seals on the cable sheath.
- A harder outer seal grips the cable, giving it superior cable retention and an IP rating
- Provides 360° earthing to copper tape or lead sheath.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™), available in stainless steel 316/316L on request.







 Supplied with a thread-s 	sealing gasket (parallel threads only).
Technical Data	
Гуре:	A2EX-VS
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™), Stainless

Sealing Gasket Material: Cable Type: HDPE, Nylon 66 or PTFE Copper Tape, Braided or Lead Sheathed

Sealing Area: Taper Seal on the Outer Sheath. Compression seal on inner copper sheath Optional Accessories: Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud

Note: The installer should ensure that the materials are suitable for the installation

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Equipment Protection Levels: IECEX/INMETRO: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da

ATEX/UKEX: (2) II 2/3G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da TR CU: 1 1 1 Ex d IIC Gb X / 1 Ex e IIC Gb X / 2 Ex nR IIC Gc X / Ex ta IIIC Da X

CCC: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da

Standard Seals: -60°C to +95°C/100°C (HDPE/Nylon Sealing Gasket)
Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket) Continuous Operating Temp:

Standard Thermoset Elastomer or Extreme Temperature Seals,

	Extreme remp. Sears60 C to +160 C (P)
Conformance:	Standard:
IEC/BS EN	IEC/BS EN 62444, 6121
IECEx	IEC 60079 Part 0, 1, 7, 15, 31
ATEX	EN 60079 Part 0, 1, 7, 31
	EN 60079 Part 0, 15
UKEX	BS EN 60079 Part 0, 1, 7, 31
	BS EN 60079 Part 0, 15
INMETRO (Brazil)	ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31
TR CU (Russia)	FOCT 31610-0, 15, FOCT IEC 60079-1

ΓΟCT P M9K 60079-7, 31 CCC/CNEx (Chinese) GB/T3836.1, 2, 3, 31-2021

SANS SANS/IEC 60079 Part 0, 1, 7, 15, 31

IP66/68 100m - Parallel IEC 60529 IP65 - Tapered IEC 60529 IP68 - Tapered and approved grease IEC 60529

Deluge Protection ASTM B117-11, BS EN ISO 3231 Corrosion Protection Marine ABS

IEC/EN 60079 Part 0, 1, 7, 15, 31 IEC 60079 Part 0, 1, 7, IEC 60529 DNV-GL EN 55011, + A1, ÉN 55022 **EMC** Compatible

Certificate: CML 14CA364 IECEx CML 20.0011 CML 20ATEX1026 CML 22ATEX4116 CML 21UKEX1013 CML 22UKEX4117

TÜV 15.0483X EA9C RU C-ZA.HA91.B.00245/21

Steel 316/316L

CNEx 21.3386X CCC 2021312313000395

MASC S/20-9022 CML 15Y728

IECEx CML 20.0011 CML 14CA370-2 EXOVA N968667 ABS 20-1952706-1-PDA DNV-GL TAE0000010



None

Product Code	Gland Size Ref	Metric Entry Thread		NPT Entry Thread		Cable Detail		Maximum	Hexagonal Detail		Install.
		C'	Min 'D'	,C,	Min 'D'	Min 'B'	Max 'B'	Length 'E'	Max 'Flats'	Max 'Crns'	Torque Value Nm
043600-16	00-16ss	M16x1.5	15	-	-	3.0	8.5	25.0	24.0	27.0	32.5
043600	00-20ss	M20x1.5	15	1/2/3/4	15	3.0	8.5	25.0	24.0	27.0	32.5
0436-0	0-20s	M20x1.5	15	1/2/3/4	15	7.0	12.0	25.0	24.0	27.0	32.5
043601	1-20	M20x1.5	15	1/2/3/4	15	11.0	15.0	30.0	27.0	30.0	32.5
043622	2s-25s	M25x1.5	15	3/4/1	15/19	11.5	17.5	30.0	35.0	39.0	47.5
043602	2-25	M25x1.5	15	3/4/1	15/19	15.0	20.0	30.0	35.0	39.0	47.5
043633	3s-32s	M32x1.5	15	1/1¼	19	16.0	22.0	30.0	42.0	47.0	55.0
043603	3-32	M32x1.5	15	1/1¼	19	20.0	26.5	30.0	42.0	47.0	55.0
043644	4s-40s	M40x1.5	15	11/4/11/2	19/21	22.0	31.5	38.0	52.0	59.0	65.0
043604	4-40	M40x1.5	15	11/4/11/2	19/21	26.0	34.0	38.0	52.0	59.0	65.0
043655	5s-50s	M50x1.5	15	1½/2	21	29.0	38.0	46.0	65.0	73.0	82.5
043605	5-50	M50x1.5	15	1½/2	21	34.0	44.5	46.0	65.0	73.0	82.5
043666	6s-63s	M63x1.5	15	2/21/2	21/30	38.0	50.0	52.0	80.0	90.0	97.5
043606	6-63	M63x1.5	15	2/21/2	21/30	44.5	56.5	52.0	80.0	90.0	97.5
043677	7s-75s	M75x1.5	15	2½/3	30/32	50.0	62.0	54.0	96.0	108.0	115.5
043607	7-75	M75x1.5	15	21/2/3	30/32	56.0	67.5	54.0	96.0	108.0	115.5
043608	8-80	M80x2.0	20	3	32	59.0	69.0	68.0	96.0	108.0	120.0
043699	9s-90s	M90x2.0	20	3/31/2	32/33	60.0	75.0	70.0	111.0	125.0	120.0
043609	9-90	M90x2.0	20	3/3½	32/33	73.0	81.5	70.0	111.0	125.0	120.0
043610	10-100	M100x2.0	20	31/2/4	33/34	81.0	91.0	70.0	125.0	141.0	120.0
043611	11-115	M115x2.0	20	4	34	91.0	101.0	70.0	135.0	152.0	175.0
043612	12-120	M120x2.0	20	-	-	101.0	109.0	70.0	140.0	158.0	175.0
043613	13-130	M130x2.0	20	-	-	109.0	116.0	70.0	146.0	164.0	175.0

All dimensions except NPT are in mm. Intermediate thread sizes are available on request. NPT threads should be tightened 'wrench tight'.

FITTING INSTRUCTIONS

Metric Illustration

A2EX-VS GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

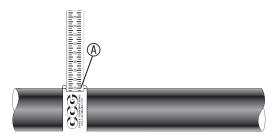
- Must be made from materials which are compatible with the cable gland materials
- Have a sealing area around the cable gland entry point with a surface roughness < Ra $6.3\ \mu m.$
- Have entries that are perpendicular to the enclosure face in the area where the cable
- gland will seal to within 2.5°. 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

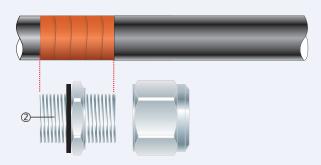
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
 Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

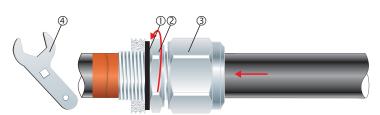
- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)



For accurate sizing, use a CCG Dimension Tape (4) on the outer cable sheath.



Cut the PVC sheath exposing the copper tape to the length of the inner 2.



To maintain IP66/68, ensure the thread gasket ${\mathbin{\textcircled{\scriptsize 1}}}$ is in place. Screw the gland unit into the apparatus. Tighten the inner ② using a CCG Spanner ④. Pass the cable end through the outer nut 3 and earth disc and seal.

Alternative installation through an unthreaded entry.

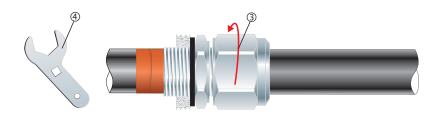
If the apparatus is untapped use a locknut.



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.



Unscrew the outer nut ③. Withdraw the cable. Check that the copper tape has passed through and makes 360° contact with the earthing disc.



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

