

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

- For indoor, outdoor, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas. Inner seal seals on the cable sheath.
- Harder outer seal grips the cable giving superior cable retention and 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 sealing gasket (parallel threads only)



Gland Material: Brass (Marine Grade Electroless Nickel Plated™), Stainless Steel 316/316L

Seal Material: Standard Thermoset Elastomer or Extreme Temperature Seals,

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

Standards and Certifications

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

ATEX/UKEX: (a) II 2/3G 1D, Ex db IIC Gb, Ex hil iIC Gc, Ex ta IIIC Da TR CU: (a) IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIIC Da X Standard Seals: -60°C to +95°C/100°C (HDPE/Nylon Sealing Gasket) Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket)

CML 14CA364

TÜV 15.0483X

CNEx 21.3386X,

MASC MS/22-9001X

IECEx CML 18.0018X

IECEx CML 18.0018X CML 14CA370-2 EXOVA N968667

ABS 20-1952706-1-PDA

DNV-GL TAE0000010

SGS EMC305079/1

IECEx CML 18.0018X

CML 16ATEX1001X

CML 16ATEX4002X CML 21UKEX1011X CML 21UKEX4006X

EA9C RU C-ZA.HA91.B.00245/21

CNEx CCC 2021312313000395

Continuous Operating Temp:

Conformance: Standard:

IEC/BS EN

IEC/BS EN 62444, 6121 **IECEx** IEC 60079 Part 0, 1, 7, 15, 31 EN 60079 Part 0, 1, 7, 31 EN 60079 Part 0, 15 BS EN 60079 Part 0, 1, 7, 31 BS EN 60079 Part 0, 15 **UKEX**

ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31 INMETRO (Brazil)

TR CU (Russia) ΓΟCT 31610-0, 15, ΓΟCT IEC 60079-1 ГОСТ Р МЭК 60079-7, 31

CNEx (Chinese) GB 3836.1, GB3936.2, GB3836.3 GB12476.1,

GB12476.5

SANS/IEC 60079 Part 0, 1, 7, 15, 31 SANS IP66/68 100m - Parallel IEC 60529

IP65 - Tapered IEC 60529 IP68 - Tapered and approved grease IEC 60529

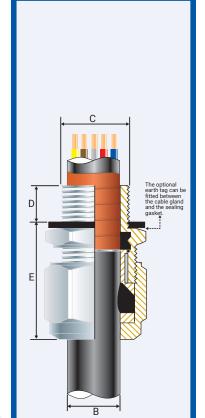
Deluge Protection DTS-01 Corrosion Protection

ASTM B117-11, BS EN ISO 3231 IEC/EN 60079 Part 0, 1, 7, 15, 31 IEC 60079 Part 0, 1, 7, IEC 60529 Marine ABS DNV-GL **EMC** Compatible EN 55011, + A1, EN 55022









EX CE CH COLLEGE FILE IN COLLEGE FABS ONLY OF THE PARTY O 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 seal & HDPE sealing gasket), -60°C to +100°C (standard seal and Nylon sealing gasket) or -60°C to +160°C (extreme temp. seal & PTFE sealing gasket).

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® or QuickStop-Ex® barrier gland should be used

Product	Gland	Metric Entry Thread		NPT Entry Thread		Cable Detail		Maximum	Hexagonal Detail		Install.
Code	Size Ref	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	2½/3	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	3/31/2	32/33	73.0	81.5	70.0	111.0	125.0	120.0
043610	10-100	M100x2.0	20	3½/4	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'.

PATENTED

FITTING INSTRUCTIONS

Metric Illustration

A2EX-VS GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

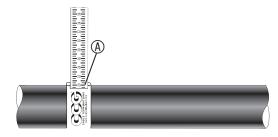
- Must be made from materials which are compatible with the cable gland materials
- Have a sealing area around the cable gland entry point with a surface roughness < Ra $6.3\ \mu m.$
- Have entries that are perpendicular to the enclosure face in the area where the cable
- gland will seal to within 2.5°.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

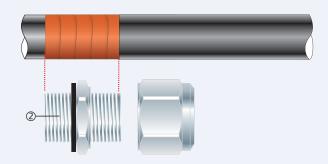
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
 Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

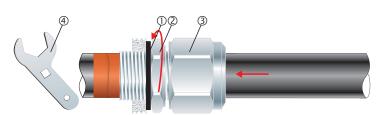
- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and 20.7mm)
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry 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.



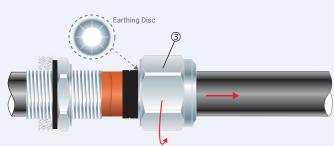
To maintain IP66/68, ensure the thread gasket ${\mathbin{\textcircled{1}}}$ is in place. Screw the gland unit into the apparatus. Tighten the inner ② using a CCG Spanner ④. Pass the cable end through the outer nut 3 and earth disc and seal.

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 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.