



A2e100

Ex e Ex nR Ex ta

A2e100 Internationally Approved, Ex e, Explosive Atmosphere Cable Gland

For all types of Unarmoured & Braided Cables

- Complies 100% with IEC 60079-0 cable retention requirements
- No external cable clamping required
- No special conditions for safe use
- Displacement type seal
- Deluge protected
- -60°C to +130°C
- Internationally marked, IECEx & ATEX
- 10mm thread lengths available upon request (sizes 32 and below)



| TECHNICAL DATA | |
|--|---|
| Design Specification | BS 6121:Part 1:1989, IEC 62444, EN 62444 |
| Mechanical Classifications* | Impact = Level 8, Retention = Class B |
| Enclosure Protection | IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only |
| ATEX Certificate | SIRA16ATEX3165, SIRA16ATEX4020 |
| Code of Protection | ⊕ II 2G Ex eb IIC Gb, II 1D Ex ta IIIC Da ⊕ II 3G Ex nRc IIC Gc, ⊕ I M2 Ex eb I Mb |
| Compliance Standards | EN 60079-0,7,15,31 |
| IECEx Certificate | IECEx SIR 16.0053 |
| Code of Protection | Ex eb IIC Gb, Ex ta IIIC Da, Ex nRc IIC Gc, Ex eb I Mb |
| Compliance Standards | IEC 60079-0,7,15,31 |
| EAC Certificate (Formerly GOST R, K & B) | TC RU C-GB.ГБ05.В00138 |
| KCC Certificate | 13_GA4BO_0749X; 13_GA4BO_0750X; 14_GA4BO_0251X |
| NEPSI Certificate | GYJ13.1140X / GYJ13.1282X |
| CCOE / PESO (India) Certificate | P333688 |
| Marine Approvals | DNV: E-13848, ABS: 01-LD234401B/2-PDA, LRS: 01/00172 (E3) |
| Ingress Protection Rating | IP66, IP67 & IP68** |
| Deluge Protection Compliance | DTS01 : 91 |
| Cable Gland Material | Brass, Electroless Nickel Plated Brass, Stainless Steel, Aluminium |
| Seal Material | CMP SOLO LSF Halogen Free Thermoset Elastomer |
| Cable Type | Unarmoured & Braided |
| Sealing Technique | CMP Unique Displacement Seal Concept |
| Sealing Area(s) | Cable Outer Sheath |

* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

** Refer to page 7 or www.cmp-products.com for further information on Ingress Protection Ratings

Cable Gland Selection Table

Refer to illustration at the top of the page.

Dimensions listed below are for metric cable glands only
Dimensions for alternative threads may vary, please see supplementary technical data sheet

| Cable Gland Size | Available Entry Threads "C" (Alternate Metric Thread Lengths Available) | | | | | Overall Cable Diameter "A" | | Across Flats "D" | Across Corners "D" | Protrusion Length "F" | Combined Ordering Reference (*Brass Metric) | | | Shroud | Cable Gland Weight (Kgs) |
|------------------|--|----------------------------|--------|-------------------------|--------|----------------------------|-------|------------------|--------------------|-----------------------|--|--------|-----------------|--------|--------------------------|
| | Standard | | Option | | | Min | Max | Max | Max | | Size | Type | Ordering Suffix | | |
| | Metric | Thread Length (Metric) "E" | NPT | Thread Length (NPT) "E" | NPT | | | | | | | | | | |
| 16 | M16 | 15.0 | - | - | - | 3.2 | 8.0 | 24.0 | 26.4 | 34.9 | 16 | A2E100 | 1RA | PVC04 | 0.07 |
| 20s16 | M20 | 15.0 | 1/2" | 19.9 | 3/4" | 3.2 | 8.0 | 24.0 | 26.4 | 30.4 | 20S16 | A2E100 | 1RA | PVC04 | 0.08 |
| 20S | M20 | 15.0 | 1/2" | 19.9 | 3/4" | 6.5 | 11.2 | 24.0 | 26.4 | 31.9 | 20S | A2E100 | 1RA | PVC04 | 0.07 |
| 20 | M20 | 15.0 | 1/2" | 19.9 | 3/4" | 7.0 | 13.5 | 27.0 | 29.7 | 35.8 | 20 | A2E100 | 1RA | PVC05 | 0.08 |
| 20L | M20 | 15.0 | 1/2" | 19.9 | 3/4" | 8.7 | 14.0 | 27.0 | 29.7 | 34.3 | 20L | A2E100 | 1RA | PVC05 | 0.08 |
| 25 | M25 | 15.0 | 3/4" | 20.2 | 1" | 11.5 | 19.5 | 36.0 | 39.6 | 40.4 | 25 | A2E100 | 1RA | PVC09 | 0.16 |
| 25L | M25 | 15.0 | 3/4" | 20.2 | 1" | 14.0 | 20.0 | 36.0 | 39.6 | 39.9 | 25L | A2E100 | 1RA | PVC09 | 0.16 |
| 32 | M32 | 15.0 | 1" | 25.0 | 1 1/4" | 19.0 | 25.5 | 41.0 | 45.1 | 38.5 | 32 | A2E100 | 1RA | PVC10 | 0.19 |
| 32L | M32 | 15.0 | 1" | 25.0 | 1 1/4" | 20.2 | 26.3 | 41.0 | 45.1 | 35.5 | 32L | A2E100 | 1RA | PVC10 | 0.19 |
| 40 | M40 | 15.0 | 1 1/4" | 25.6 | 1 1/2" | 25.0 | 32.2 | 50.0 | 55.0 | 38.8 | 40 | A2E100 | 1RA | PVC13 | 0.25 |
| 50S | M50 | 15.0 | 1 1/2" | 26.1 | 2" | 31.0 | 38.2 | 55.0 | 60.5 | 41.4 | 50S | A2E100 | 1RA | PVC15 | 0.33 |
| 50 | M50 | 15.0 | 2" | 26.9 | 2 1/2" | 35.6 | 44.0 | 60.0 | 66.0 | 45.8 | 50 | A2E100 | 1RA | PVC18 | 0.35 |
| 63S | M63 | 15.0 | 2" | 26.9 | 2 1/2" | 41.5 | 49.9 | 70.5 | 77.6 | 43.3 | 63S | A2E100 | 1RA | PVC21 | 0.56 |
| 63 | M63 | 15.0 | 2 1/2" | 39.9 | 3" | 48.2 | 54.9 | 75.0 | 82.5 | 43.6 | 63 | A2E100 | 1RA | PVC23 | 0.55 |
| 75S | M75 | 15.0 | 2 1/2" | 39.9 | 3" | 54.0 | 61.9 | 84.0 | 92.4 | 45.4 | 75S | A2E100 | 1RA | PVC26 | 0.73 |
| 75 | M75 | 15.0 | 3" | 41.5 | 3 1/2" | 61.1 | 67.9 | 84.0 | 92.4 | 49.0 | 75 | A2E100 | 1RA | PVC26 | 0.58 |
| 90 | M90 | 24.0 | 3 1/2" | 42.8 | 4" | 66.6 | 79.9 | 108.0 | 118.8 | 66.0 | 90 | A2E100 | 1RA | PVC31 | 1.71 |
| 100 | M100 | 24.0 | 3-1/2" | 42.8 | 4" | 76.0 | 89.0 | 123.0 | 135.3 | 72.2 | 100 | A2E100 | 1RA | LSF34 | 2.26 |
| 115 | M115 | 24.0 | 4" | 44.0 | 5" | 86.0 | 97.9 | 133.4 | 146.7 | 67.9 | 115 | A2E100 | 1RA | LSF34 | 2.74 |
| 130 | M130 | 24.0 | 5" | 46.8 | - | 97.0 | 114.9 | 152.4 | 167.6 | 81.1 | 130 | A2E100 | 1RA | LSF35 | 4.07 |

*For material options add the following suffix to the Ordering Reference; Brass (no suffix required); Nickel Plated Brass '5'; 316 Grade Stainless Steel '4'; Copper Free Aluminium '1'
NPT options add the following digits to the material suffix; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')
Examples: 32A2E1001RA534 = Nickel Plated Brass 1-1/4" NPT, 50SA2E1001RA035 = Brass 1-1/2" NPT, 25A2E1001RA432 = Stainless Steel 3/4" NPT, 20A2E1001RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated