# A2F100

## GLOBALLY APPROVED, EXPLOSIVE ATMOSPHERE CABLE GLAND

### FOR ALL TYPES OF UNARMOURED & BRAIDED CABLES

- Complies 100% with IEC 60079-0 cable retention requirements
- No 'special conditions' for safe use
- No external cable clamping required by certification
- Displacement type flameproof seal
- Deluge protected
- -60˚C to +130˚C (-76˚F to + 266˚F)
- Globally marked, IECEx, ATEX, cULus and cCSAus
- Ingress protection disc available on request

IP66 IP67 IP68

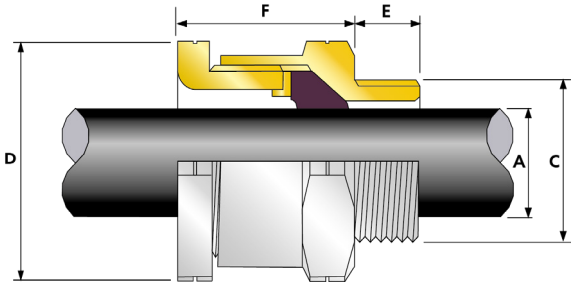
DELUGE PROTECTED

+130˚C ↑ -60˚C

Ex db Ex eb Ex ta Ex nR

| TECHNICAL DATA | |
|---|---|
| DESIGN SPECIFICATION | BS 6121:Part 1:1989, IEC 62444, EN 62444 |
| MECHANICAL CLASSIFICATION* | Impact = Level 8, Cable Anchorage = Type B |
| ENCLOSURE PROTECTION | IK10 to IEC 62262 (20 joules) |
| INGRESS PROTECTION RATING** | IP66, IP67 and IP68*** |
| TYPE RATING ** | Type 4 x, 6 , 6P |
| DELUGE PROTECTION COMPLIANCE | DTS01 : 91 |
| CABLE GLAND MATERIAL | Electroless Nickel Plated Brass |
| SEAL MATERIAL | CMP SOLO LSF Halogen Free Thermoset Elastomer |
| CABLE TYPE | Unarmoured and Braided |
| SEALING TECHNIQUE | CMP Displacement Seal |
| SEALING AREA(S) | Cable Outer Sheath |

* Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444 ** When CMP installation accessories are used. Refer to www.cmp-products.com for further information.
*** IP68 tested to a minimum depth of 30 metres for 12 hours, alternative depths / durations can be provided upon request.




| GLOBAL PRODUCT CERTIFICATION | | | |
|---|---|---|---|
| ATEX CERTIFICATE | CML18ATEX1307, CML18ATEX4311 | IECEx CERTIFICATE | IECEx CML 18.0172 , IECEx SIM 17.0010 |
| UKEX CERTIFICATE | CML 21UKEX1247, CML 21UKEX4248 | | |
| CODE OF PROTECTION | Ex II 2G 1D II Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex II 3G Ex nR IIC Gc Ex I M2 Ex db I Mb, Ex eb I Mb IP66, IP67, IP68 | CODE OF PROTECTION | Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc, Ex db I Mb, Ex eb I Mb IP66, IP67, IP68 |
| COMPLIANCE STANDARDS | EN 60079-0,1,7,15,31 | COMPLIANCE STANDARDS | IEC 60079-0,1,7,15,31 |
| UL CERTIFICATE (SIZES 16 - 75) | E256366, E509101 | | |
| CODE OF PROTECTION | Class I Zone 1 AEx eb IIC Gb; Zone 20 AEx ta IIIC Da; Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da Type 4X; Type 6; Type 6P; IP66; IP67; IP68; Oil resistant II | | |
| COMPLIANCE STANDARDS | UL 2225; UL514B; CSA C22.2 No. 60079-0,7,15,31; CSA C22.2 No. 18.3 | | |
| cCSAus CERTIFICATE (SIZES 16 - 75) | 80036227 | | |
| CSAus CODE OF PROTECTION | Class I Zone 1 AEx eb IIC Gb; Zone 20 AEx ta IIIC Da; Type 4X; Type 6; Type 6P; IP66; IP67; IP68 ; Oil resistant II | | |
| cCSA CODE OF PROTECTION | Class I, Division 2 Groups A, B, C and D; Class II Division 2 Groups F, G; Class III Division 2 Ex db IIC Gb; Ex eb IIC Gb; Ex nR IIC Gc; Ex ta IIIC Da, Type 4X; Type 6; Type 6P; IP66; IP67; IP68; Oil resistant II | | |
| COMPLIANCE STANDARDS | CAN/CSA C22.2 No. 0, 18.3, 94.2, 174; CAN/CSA C22.2 No. 60079-0,1,7,15,31; UL 514B, 50E, 2225; UL 60079-0" | | |
| CCC CERTIFICATE | 2020322313003430 | CCOE / PESO CERTIFICATE (INDIA) | P548696, P548695, P533772 |
| EAC CERTIFICATE | EAЭC KZ 7100841.01.01.07876 | | |
| CODE OF PROTECTION | Ex db I Mb X, Ex eb I Mb X, 1Ex db IIC Gb, 1Ex eb IIC Gb, Ex ta IIIC Da, 2Ex nR IIC Gc X | | |
| SANS | IA MS-XPL21804 21.0002 | | |
| INMETRO APPROVAL | TÜV 25.0706 | | |
| ECAS CERTIFICATE | 24-03-106290/E24-03-110155/NB0007 | | |
| MARINE APPROVALS | LRS: LR22320739TA, DNV: TAE000000Y, BV: 43180 | | |

| COMBINED ORDERING REFERENCE | | | AVAILABLE ENTRY THREADS 'C' | | OVERALL CABLE DIAMETER 'A' | | ACROSS FLATS 'D' | ACROSS CORNERS 'D' | PROTRUSION LENGTH 'F' | SHROUD | CABLE GLAND WEIGHT (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SIZE | TYPE | ORDERING SUFFIX | METRIC | THREAD LENGTH 'E' | MIN | MAX | MAX | MAX | | | |
| 16 | A2F100 | 1RA5 | M16 | 15.0 | 3.2 | 8.0 | 24.0 | 26.4 | 34.9 | PVC04 | 0.07 |
| 20S16 | A2F100 | 1RA5 | M20 | 15.0 | 3.2 | 8.0 | 24.0 | 26.4 | 30.4 | PVC04 | 0.08 |
| 20S | A2F100 | 1RA5 | M20 | 15.0 | 6.5 | 11.2 | 24.0 | 26.4 | 31.9 | PVC04 | 0.07 |
| 20 | A2F100 | 1RA5 | M20 | 15.0 | 7.0 | 13.5 | 27.0 | 29.7 | 35.8 | PVC05 | 0.09 |
| 20L | A2F100 | 1RA5 | M20 | 15.0 | 8.7 | 14.0 | 27.0 | 29.7 | 34.3 | PVC05 | 0.09 |
| 25 | A2F100 | 1RA5 | M25 | 15.0 | 11.5 | 19.5 | 36.0 | 39.6 | 40.4 | PVC09 | 0.16 |
| 25L | A2F100 | 1RA5 | M25 | 15.0 | 14.0 | 20.0 | 36.0 | 39.6 | 39.9 | PVC09 | 0.16 |
| 32 | A2F100 | 1RA5 | M32 | 15.0 | 19.0 | 25.5 | 41.0 | 45.1 | 38.5 | PVC10 | 0.18 |
| *32L | A2F100 | 1RA5 | M32 | 15.0 | 20.2 | 26.3 | 41.0 | 45.1 | 35.5 | PVC10 | 0.18 |
| 40 | A2F100 | 1RA5 | M40 | 15.0 | 25.0 | 32.2 | 50.0 | 55.0 | 38.8 | PVC13 | 0.25 |
| 50S | A2F100 | 1RA5 | M50 | 15.0 | 31.0 | 38.2 | 55.0 | 60.5 | 41.4 | PVC15 | 0.33 |
| 50 | A2F100 | 1RA5 | M50 | 15.0 | 35.6 | 44.0 | 60.0 | 66.0 | 45.8 | PVC18 | 0.35 |
| 63S | A2F100 | 1RA5 | M63 | 15.0 | 41.5 | 49.9 | 70.5 | 77.6 | 43.3 | PVC21 | 0.56 |
| 63 | A2F100 | 1RA5 | M63 | 15.0 | 48.2 | 54.9 | 75.0 | 82.5 | 43.6 | PVC23 | 0.55 |
| 75S | A2F100 | 1RA5 | M75 | 15.0 | 54.0 | 61.9 | 84.0 | 92.4 | 45.4 | PVC24 | 0.73 |
| 75 | A2F100 | 1RA5 | M75 | 15.0 | 61.1 | 67.9 | 84.0 | 92.4 | 49.0 | PVC24 | 0.58 |
| *90 | A2F100 | 1RA5 | M90 | 24.0 | 66.6 | 79.9 | 108.0 | 118.8 | 66.0 | PVC31 | 1.71 |
| *100 | A2F100 | 1RA5 | M100 | 24.0 | 76.0 | 89.0 | 123.0 | 135.3 | 72.2 | LSF33 | 2.26 |
| *115 | A2F100 | 1RA5 | M115 | 24.0 | 86.0 | 97.9 | 133.4 | 146.7 | 67.9 | LSF34 | 2.74 |
| *130 | A2F100 | 1RA5 | M130 | 24.0 | 97.0 | 114.9 | 152.4 | 167.6 | 81.1 | 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; ½" = 31; ¾" = 32; 1" = 33; 1 ¼" = 34; 1 ½" = 35; 2" = 36; 2 ½" = 37; 3" = 38; 3 ½" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32A2F1001RA534 = Nickel Plated Brass 1 ¼" NPT, 50SA2F1001RA035 = Brass 1 ½" NPT, 25A2F1001RA432 = Stainless Steel ¾" NPT, 20A2F1001RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated

*Sizes 32L, 90, 100, 115, 130 do not hold North American approval

Dimensions listed are for metric cable glands only. Dimensions for alternative threads may vary.