

Cable Gland Selection Guide

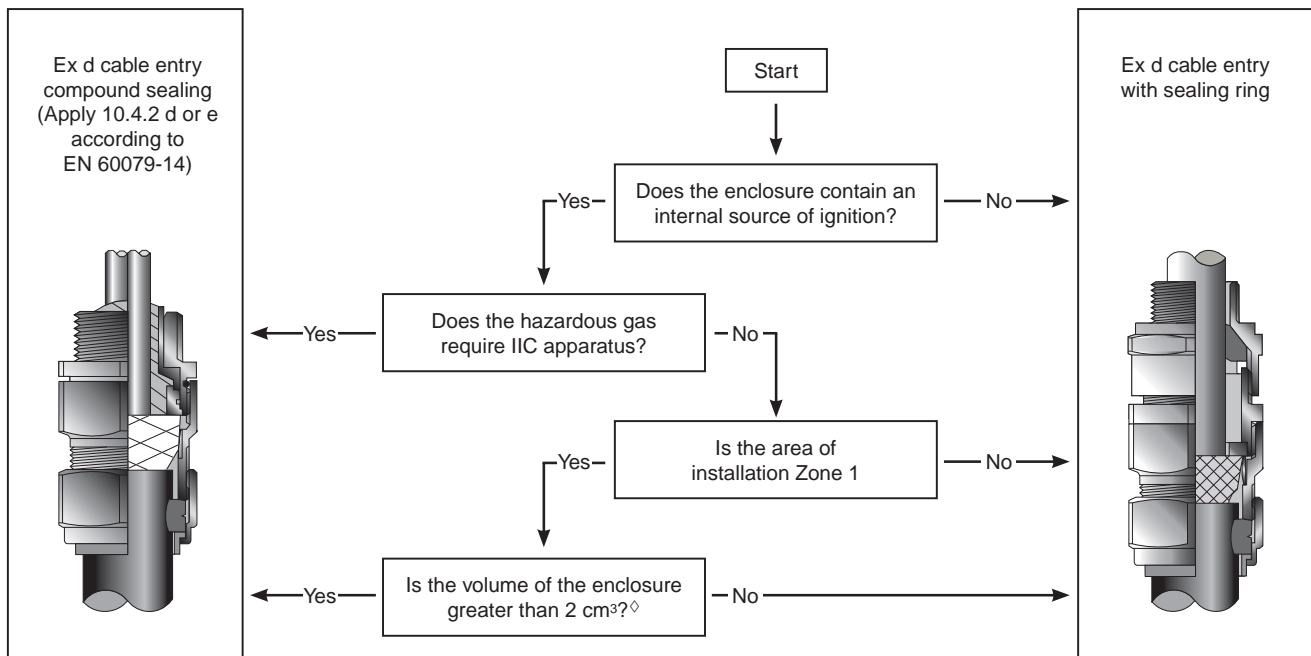
Selection Chart

| TYPE | SERIES | PAGE | MATERIAL | NON-ARMORED CABLES | ARMORED CABLES | | |
|----------------|---------------------|---------|--------------------------------------|--------------------|----------------|--------------------|------|
| | | | | | WIRE | BRAID | TAPE |
| MARINE | C2KX | I-35 | Brass with nickel-plated brass entry | Yes | | | |
| ELASTOMER SEAL | Non-Hazardous A2 | I-29 | Brass, fully nickel plated | Yes | | | |
| | A2F | I-30 | Brass, fully nickel plated | Yes | | | |
| | "d" and "e" | T3CDS | Brass with nickel-plated brass entry | | Yes | Yes | Yes |
| COMPOUND SEAL | PXSS2K | I-32 | Brass with nickel-plated brass entry | Yes (Tray) | | | |
| COMPOUND SEAL | UL | PXB2KX* | Brass with nickel-plated brass entry | | | Yes (non-jacketed) | |
| | | PX2KX* | Brass with nickel-plated brass entry | | | Yes | |

* Also ATEX & Marine rated.

Selection Guide

Selection of cable entry for Ex d flameproof enclosure according to electrical installations IEC 60079-14.



Note: Cable must be substantially compact and circular with an extruding bedding, and if any filters are used they are Non-Hygroscopic.

◇ dm³: 1 cubic decimeter equals approximately 61 cubic inches.

A2 Industrial Cable Gland

Unarmored Cable

Applications

• A2 type brass indoor and outdoor cable gland for use with all types of unarmored cable providing mechanical cable retention and an environmental seal on the cable outer sheath.

Features

• Designed and tested to BS 6121: Part 1: 1989, meets and surpasses the requirements of EN 50262:1999.
 • Brass grade CuZn39Pb3 (CW614N) to EN12168.
 • Continuous operating temperature range: -60°C to +150°C.

Materials:

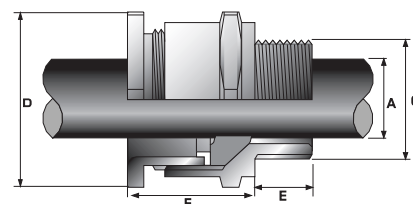
• *Gland:* Brass, fully nickel plated
 • *Seal:* Solo LSF
 • *Cable type:* Unarmored. Sealing technique - Displacement seal concept. Sealing area(s) - outer sheath.

Optional Accessories:

• Shroud, locknut, earth tag, entry thread seal, serrated washers (I-38). Adaptors and reducers (I-35 thru I-37).
 • Also available in Brass with Nickel Plated finish, Stainless Steel & Aluminum.
 • Brass with nickel plated brass entry replace RA5 with RA7.
 • Aluminum replace RA5 with RA1.
 • 316 Stainless steel replace RA5 with RA4.

Compliances/Approvals:

• Ingress Protection - IP66, IP67 & IP68
 • Deluge Protection - To DTS01 : 91
 • CEP/INMENRD Approval - EX-023
 • SAQAS Approval - AUSEX764
 • Marine Approvals - LLOYDS, DNV, ABS



Ordering Information

| Gable Gland Size | Available Entry Threads "C" | | | Maximum Thread Length "E" | Overall Cable Diameter "A" | | Across Flats "D" | Across Corners "D" | Nominal Protrusion Length "F" | Catalog Number | | PVC Shroud Reference | Cable Gland Weight (Ozs) |
|------------------|-----------------------------|--------|--------|---------------------------|----------------------------|-------|------------------|--------------------|-------------------------------|----------------|-------------|----------------------|--------------------------|
| | Standard | Option | Metric | | Min | Max | | | | NPT | Metric | | |
| | NPT | NPT | | | | | | | | | | | |
| 20S/16 | 1/2" | 3/4" | M20 | 0.591 | 0.126 | 0.343 | 0.945 | 1.047 | 0.827 | 20S16A21RA531 | 20S16A21RA5 | PVC04 | 1.90 |
| 20S | 1/2" | 3/4" | M20 | 0.591 | 0.240 | 0.461 | 0.945 | 1.047 | 0.827 | 20SA21RA531 | 20SA21RA5 | PVC04 | 1.90 |
| 20 | 1/2" | 3/4" | M20 | 0.591 | 0.256 | 0.551 | 1.063 | 1.220 | 0.945 | 20A21RA531 | 20A21RA5 | PVC05 | 2.08 |
| 25 | 3/4" | 1" | M25 | 0.591 | 0.437 | 0.787 | 1.417 | 1.535 | 1.024 | 25A21RA532 | 25A21RA5 | PVC09 | 3.95 |
| 32 | 1" | 1-1/4" | M32 | 0.591 | 0.669 | 1.035 | 1.614 | 1.772 | 1.063 | 32A21RA533 | 32A21RA5 | PVC10 | 4.51 |
| 40 | 1-1/4" | 1-1/2" | M40 | 0.591 | 0.925 | 1.268 | 1.969 | 2.106 | 1.102 | 40A21RA534 | 40A21RA5 | PVC13 | 5.93 |
| 50S | 1-1/2" | 2" | M50 | 0.591 | 1.220 | 1.504 | 2.165 | 2.402 | 1.142 | 50S1A1RA535 | 50S1A1RA5 | PVC14 | 7.90 |
| 50 | 2" | 2-1/2" | M50 | 0.591 | 1.402 | 1.736 | 2.362 | 2.598 | 1.181 | 50A21RA536 | 50A21RA5 | PVC17 | 8.15 |
| 63S | 2" | 2-1/2" | M63 | 0.591 | 1.634 | 1.969 | 2.756 | 3.051 | 1.181 | 63SA21RA536 | 63SA21RA5 | PVC20 | 12.69 |
| 63 | 2-1/2" | 3" | M63 | 0.591 | 1.858 | 2.205 | 2.953 | 3.307 | 1.181 | 63A21RA537 | 63A21RA5 | PVC22 | 12.14 |
| 75S | 2-1/2" | 3" | M75 | 0.591 | 2.126 | 2.441 | 3.110 | 3.425 | 1.260 | 75A21RA538 | 75A21RA5 | PVC24 | 16.44 |
| 75 | 3" | 3-1/2" | M75 | 0.591 | 2.406 | 2.677 | 3.307 | 3.701 | 1.260 | 75S1RA537 | 75S1RA5 | PVC26 | 13.93 |
| 90 | 3" | 3-1/2" | M90 | 0.591 | 2.622 | 3.150 | 4.252 | 4.724 | 1.732 | 90A21RA538 | 90A21RA5 | PVC31 | 47.48 |

All dimensions in inches.

A2F Flameproof Ex d* & Increased Safety Ex e Cable Gland

Unarmored Cable

Applications

- For use in Zone 1, Zone 2, Zone 21 and Zone 22 hazardous area locations.

Features

- Dual Certified flameproof (Type 'd') and Increased Safety (Type 'e') indoor and outdoor cable glands.
- Continuous operating temperature range: -60°C to +130°C.

Materials:

- *Gland:* Brass, fully nickel plated
- *Seal:* Solo LSF
- *Cable type:* Unarmored. Sealing technique - Displacement seal concept. Sealing area(s) - outer sheath.

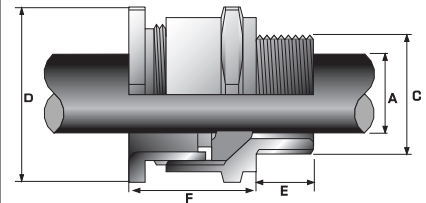
Optional Accessories:

- Shroud, locknut, earth tag, entry thread seal, serrated washers (I-38). Adaptors and reducers (I-35 thru I-37).
- Integral Entry Thread Seal option available (for this option pre-fix gland type with 'R', e.g. 25RA2F). Also available in Brass with Nickel Plated finish, Stainless Steel & Aluminum.
- Brass full nickel plate add suffix -5.
- Brass nickel plated entry only, add suffix -7.
- 316 Stainless steel add suffix -4.

Compliances/Approvals:

- CSA - 1211841
- CENELEC (ATEX) Certification - SIRA06ATEX1097X
- Code of protection category - ATEX II 2 GD Ex d* IIC & Ex e II, Ex nR II, Ex tD A621, Equipment Zone 1 & 2, Zone 21 & 22 - Gas Groups IIA, IIB & IIC, ATEX  IM2, Ex d I, Ex e I.
- Compliance Standards - EN 60079-0:2004, EN 60079-1:2004, EN 60079-7:2003, EN 60079-15:2003, EN 61241-0:2004 EN 61241-1:2004
- Ingress Protection - IP66, IP67 & IP68
- Deluge Protection - To DTS01 : 91
- CEPEL/INMENRD Approval - EX-023
- SAQAS Approval - AUSEX764
- Marine Approvals - LLOYDS, DNV, ABS

* The A2F Cable Gland is suitable for use with all forms of equipment protection permitted in Zone 1, Zone 2, Zone 21 and Zone 22 provided always that the prevailing code of practice for selection and installation is observed, e.g. IEC 60079-14. See page 28.



Ordering Information

| Cable Gland Size | Available Entry Threads "C" | | | Maximum Thread Length "E" | Overall Cable Diameter "A" | | Across Flats "D" Max | Across Corners "D" Max | Nominal Protrusion Length "F" | NPT Catalog Number | Metric Catalog Number | PVC Shroud Reference | Cable Gland Weight (Ozs) |
|------------------|-----------------------------|------------|--------|---------------------------|----------------------------|-------|----------------------|------------------------|-------------------------------|--------------------|-----------------------|----------------------|--------------------------|
| | Standard NPT | Option NPT | Metric | | Min | Max | | | | | | | |
| 20S/16 | 1/2" | 3/4" | M20 | 0.591 | 0.126 | 0.343 | 0.945 | 1.047 | 0.827 | 20S16A2F1RA531 | 20S16A2F1RA5 | PVC04 | 1.90 |
| 20S | 1/2" | 3/4" | M20 | 0.591 | 0.240 | 0.461 | 0.945 | 1.047 | 0.827 | 20SA2F1RA531 | 20SA2F1RA5 | PVC04 | 1.90 |
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| 40 | 1-1/4" | 1-1/2" | M40 | 0.591 | 0.925 | 1.268 | 1.969 | 2.106 | 1.102 | 40A2F1RA534 | 40A2F1RA5 | PVC13 | 5.93 |
| 50S | 1-1/2" | 2" | M50 | 0.591 | 1.220 | 1.504 | 2.165 | 2.402 | 1.142 | 50SA2F1RA535 | 50SA2F1RA5 | PVC14 | 7.90 |
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| 63 | 2-1/2" | 3" | M63 | 0.591 | 1.858 | 2.205 | 2.953 | 3.307 | 1.181 | 63A2F1RA537 | 63A2F1RA5 | PVC22 | 12.14 |
| 75S | 2-1/2" | 3" | M75 | 0.591 | 2.126 | 2.441 | 3.110 | 3.425 | 1.260 | 75SA2F1RA537 | 75SA2F1RA5 | PVC24 | 16.44 |
| 75 | 3" | 3-1/2" | M75 | 0.591 | 2.406 | 2.677 | 3.307 | 3.701 | 1.260 | 75A2F1RA538 | 75A2F1RA5 | PVC26 | 13.93 |
| 90 | 3" | 3-1/2" | M90 | 0.591 | 2.622 | 3.150 | 4.252 | 4.724 | 1.732 | 90A2F1RA538 | 90A2F1RA5 | PVC31 | 47.48 |

All dimensions in inches.

Substitutions:

- Full nickel plated brass threaded entry - replace RA5 with RA7.
- 316L stainless steel - replace RA5 with RA4.