



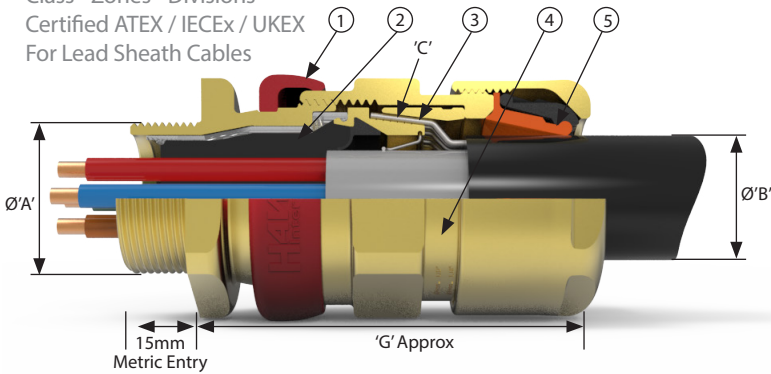
ICG/653/UNIV/L

Flameproof, Increased Safety, Dust Protection, Restricted Breathing

Class - Zones - Divisions

Certified ATEX / IECEx / UKEX

For Lead Sheath Cables



- 1 Inspectable Deluge Seal - Offering IP66, IP67, IP68 & IP69 Ingress Protection
- 2 Transparent Elastomeric Fully Inspectable Compound Pot – compatible with both injectable resin and 2 part compound
- 3 Reversible Armour Clamp - For all types of armour and braid
- 4 Electrical Bond on the cables lead inner sheath
- 5 Patented Cable Gland Tightening Guide - Helps prevent damage caused by over tightening
- 6 Unique Rear Seal - Offering ultimate sealing over an extremely wide cable acceptance range.

Dual certified fully inspectable Exe/Exd barrier gland providing a seal around individual cable cores on lead sheathed cables which are not effectively filled, have hygroscopic fillers or contains fibre optic cores. For use with single wire armour 'W', wire braid 'X', steel tape armour 'Z' elastomer and plastic insulated cables with a lead inner sheath. The ICG/653/UNIVERSAL/L is available with either ExPress liquid barrier resin or QSP 2-part hand mix compound, both with a cure time of 30 minutes

Cable Gland Selection Table

| Size Ref. | Entry Thread Size 'A' | | Cable Acceptance Details | | | | | | | | Hexagon Dimensions | | |
|-----------|-----------------------|------------|--------------------------|------------------------|-----------------|-----------------------|------------------|------|------------------|---------------|--------------------|--------------|----------------|
| | Metric | NPT* | Inner Sheath/Cores | | | | Outer Sheath 'B' | | Armour Braid 'C' | | 'G' | Across Flats | Across Corners |
| | | | Max Inner Sheath | Max Over Core Diameter | Max No of Cores | Max No of Fibre Optic | Min | Max | Orientation 1 | Orientation 2 | | | |
| Os | M20 ² | ½" | 8.0** | 8.0 | 12 | 48.0 | 5.5 | 12.0 | 0.8/1.25 | 0.0/0.8 | 58.4 | 24.0 | 26.5 |
| O | M20 ² | ½" | 10.2 | 8.8 | 12 | 48.0 | 9.5 | 16.0 | 0.8/1.25 | 0.0/0.8 | 58.4 | 24.0 | 26.5 |
| A | M20 | ¾" or ½" | 12.5 | 10.8 | 15 | 72.0 | 12.5 | 20.5 | 0.8/1.25 | 0.0/0.8 | 60.6 | 30.0 | 32.5 |
| B | M25 | 1" or ¾" | 18.0 | 15.9 | 30 | 144.0 | 16.9 | 26.0 | 1.25/1.6 | 0.0/0.7 | 67.3 | 36.0 | 39.5 |
| C | M32 | 1¼" or 1" | 24.3 | 21.9 | 42 | - | 22.0 | 33.0 | 1.6/2.0 | 0.0/0.7 | 73.2 | 46.0 | 50.5 |
| C2 | M40 | 1½" or 1¼" | 30.3 | 26.7 | 60 | - | 28.0 | 41.0 | 1.6/2.0 | 0.0/0.7 | 78.3 | 55.0 | 60.6 |
| D | M50 | 2" or 1½" | 41.9 | 37.7 | 80 | - | 36.0 | 52.6 | 1.8/2.5 | 0.0/1.0 | 97.5 | 65.0 | 70.8 |
| E | M63 | 2½" or 2" | 52.9 | 49.0 | 100 | - | 46.0 | 65.3 | 1.8/2.5 | 0.0/1.0 | 93.5 | 80.0 | 88.0 |
| F | M75 | 3" or 2½" | 64.9 | 59.8 | 120 | - | 57.0 | 78.0 | 1.8/2.5 | 0.0/1.0 | 104.5 | 95.0 | 104.0 |

¹ All dimensions in millimetres (except * where dimensions are in inches). Metric entry threads are 1.5mm pitch as standard, 15mm length of thread.

² Are available with M16 entry thread, which reduces Max Over Core Diameter to 7mm.

**Recommended value to suit integrated Express resin stop. May be increased to 10.0 if QSP compound or alternative Express resin stop method are used.

Technical Data

| | |
|-----------------------|---|
| Material Options | Manufactured in Brass, Nickel Plated Brass or 316L Stainless Steel |
| Ingress Protection | IP66, IP67, IP68 (30 metres for 7 days, special instructions apply), IP69 to IEC/EN 60529 and NEMA 4X |
| Enclosure Protection | IK10 to IEC 62262 |
| Deluge Protection | to DTS01 |
| Operating Temperature | -60°C to +80°C |
| Applications | Suitable for use in Zone 1, Zone 21, Zone 2 and Zone 22 |

Approvals

| | |
|-------------------------------|---|
| Protection Class | Ex II 2GD Ex db IIC Gb; Ex eb IIC Gb; Ex nR IIC Gc; Ex tb IIIC Db |
| ATEX Certificate No | CML 18ATEX1268X CML 19ATEX4507 (Ex nR) |
| IECEx Certificate No | CML 18.0131X CML 21.0012X (Ex nR) |
| UKEX Certificate No | CML 21UKEX1132X CML 21UKEX4133X (Ex nR) |
| Construction & Test Standards | IEC/EN 62444 (Anchorage Type D), IEC/EN 60079-0, 1, 7, 15, 31 |
| Marine Approvals | ABS: 19-LD1876514-1-PDA BV: 43523/BODNV: TAE0000BS |
| Additional Certifications | CCC: 2020312313000317 |
| | EAC: No EA3C RU C-GB.HA91.B.00264/21 |
| | EQM: 20-11-27224/Q20-11-000979/NB0007 |
| | Inmetro: IEx 14.0272X |
| | KCs: 17-KA4BO-0159X to 0167X |
| | PESO: P450038 |
| | SONCAP: LCOGB049552-0500 |

NEC/CEC

| | |
|-------------------------------|--|
| NEC Protection Class | Class I Div 1 ABCD Class II Div 2 EFG and Class III Class I, Zone I, AEx db IIC Gb, AEx eb IIC Gb; Zone 21, AEx tb IIIC Db |
| CEC Protection Class | Class I Div 1 ABCD Class II Div 2 EFG and Class III Ex db IIC Gb; Ex eb IIC Gb; Ex tb IIIC Db |
| c CSA us Certificate | 1024328 |
| Construction & Test Standards | UL2225, UL1203, UL514B, CSA C22.2 NO. 0-10, CSA C22.2 NO. 174-18, CSA 22.2 60079-0, CSA 22.2 60079-1, CSA 22.2 60079-7 and CSA 22.2 60079-31 |

| Alternative Reversible Armour Clamping Ring Size Selection | | |
|--|---------------|---------------|
| Size Ref | Orientation 1 | Orientation 2 |
| B | 0.9 - 1.25 | 0.5 - 0.9 |
| C | 1.2 - 1.6 | 0.6 - 1.2 |
| C2 | 1.2 - 1.6 | 0.6 - 1.2 |
| D | 1.45 - 1.8 | 1.0 - 1.45 |
| E | 1.45 - 1.8 | 1.0 - 1.45 |
| F | 1.45 - 1.8 | 1.0 - 1.45 |

Ordering Information

If brass is required please omit material selection
 Format for ordering is as follows: Lead sheath must be selected in optional (L), optional Alternative Ring (R), add suffix L, and R if required to ordering information
 All barrier glands are supplied with Express resin as standard. If QSP (Quick Set Putty) is required please select Q in compound selection

| Cable Gland Type | Size | Thread | Material | (Optional) | Compound |
|------------------|------|--------|----------|------------|----------|
| 653U | C | M32 | | LR | |
| 653U | C | 1.25 | NP | L | Q |

Example Code: 653UCM32LR
 Assembly instructions are supplied with the cable gland
 Please note all NPT entries should be state as a decimal
 Please refer to part code logic information page for further details on product options

Express Barrier Resin

Specify your barrier gland with our Express injectable resin for faster, easier installation

A liquid injectable and fast curing resin, allowing for faster installation time than traditional 2-part compounds. Utilising a unique clear compound chamber for full visibility of the flameproof seal during installation and inspection, the Express barrier resin is unparalleled as a global solution, with a 30 minute gel time and unrivalled ease of use.

All barrier glands are now supplied with Express Resin as standard.



Cable Gland Tightening Guide

Whilst Hawke International goes to great lengths to ensure products are designed to be as simple to install, inspect and maintain as is possible, differing levels of competency, training and understanding can lead to glands being incorrectly installed. With hazardous area products, any poor installation issues can not only lead to expensive equipment failure, but also potential explosion risks and associated risk to life.

To help address issues with the overtightening of cable glands and the resultant damage to cables and seals, Hawke International has developed the patented **INBUILT TIGHTENING GUIDE**.

Without the need for fiddly measuring systems, the guide provides a permanent visual indication of the gland tightness through installation, inspection and maintenance.