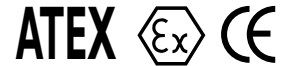


# Cable Gland Type ICG 653/Universal/L

For Lead Sheath Cables



Flameproof and Increased Safety

## CABLE GLAND SELECTION TABLE

Size Ref.	Entry Thread Size		Cable Acceptance Details							'G'		Hexagon Dimensions	
			Inner Sheath/ Cores			Outer Sheath 'B'		'C' Armour/Braid				Across Flats	Across Corners
	Metric	NPT* Std./ Option	'D' Max. Over Cores	'E' Min. Inner Sheath	'E' Max. Inner Sheath	Max. No. Of Cores	Min.	Max.	Orientation 1	Orientation 2			
Os	M20	1/2"	8.5	4.0	10.0	6	5.5	12.0	0.9/1.25	0/0.7	72.8	24.0	27.7
O	M20	1/2"	8.5	4.0	10.0	6	9.5	16.0	0.9/1.25	0/0.7	72.8	24.0	27.7
A	M20	3/4"/1/2"	10.8	7.4	12.5	10	12.5	20.5	0.9/1.25	0/0.7	73.8	30.0	34.6
B	M25	1"/3/4"	16.2	11.0	18.4	21	16.9	26.0	1.25/1.6	0/0.7	78.1	36.0	41.6
C	M32	1 1/4"/1"	21.9	14.0	24.7	42	22.0	33.0	1.6/2.0	0/0.7	83.0	46.0	53.1
C2	M40	1 1/2"/1 1/4"	26.3	21.0	29.7	60	28.0	41.0	1.6/2.0	0/0.7	84.1	55.0	63.5
D	M50	2"/1 1/2"	37.1	27.0	41.7	80	36.0	52.6	1.8/2.5	0/1.0	91.3	65.0	75.1
E	M63	2 1/2"/2"	47.8	39.0	53.3	100	46.0	65.3	1.8/2.5	0/1.0	101.8	80.0	92.4
F	M75	3"/2 1/2"	59.0	51.0	64.0	120	57.0	78.0	1.8/2.5	0/1.0	101.2	95.0	109.6

### General Information

All Metric entry threads are 1.5mm pitch medium fit.

All dimensions in millimetres (except\* where dimensions are in inches).

Two part sealing compound and assembly instructions are supplied with the cable gland.

Assembly instruction data sheet

No. A.I. 301 + 336.

Accessories including locknuts, sealing washers, serrated washers, earth tags, shrouds, adaptors and reducers available. See pages 44 - 48.

### Materials & Finishes

The ICG 653/Universal/L cable gland is manufactured as standard in brass, stainless steel and aluminium.

NPT entries, nickel plated as standard. Full nickel plating by electroplating or electroless plating is also available, as are other materials on request.

### Cable Gland Ordering Examples

**Cable Gland Type/Size/Thread/Bond**

e.g. ICG 653/UNIV/C/M32/L  
ICG 653/UNIV/C/1 1/4" NPT/L

### Cable Gland with Alternative Clamping Ring (AR)

e.g. ICG 653/UNIV/C/M32/L/AR  
ICG 653/UNIV/C/1 1/4" NPT/L/AR

### Alternative Reversible Armour Clamping Rings (RAC)

Size Ref.	SELECTION TABLE	
	Steel Wire Armour/Braid/Tape	
	Orientation 1	Orientation 2
O/Os	0.8 - 1.0	0.4 - 0.8
A	0.8 - 1.0	0.4 - 0.8
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

### Application

- Outdoor or Indoor use.
- For use with single wire armoured 'W', wire braided 'X' and steel tape armoured 'Z', elastomer and plastic insulated cables with a lead inner sheath.

#### For particular use with :-

- Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
  - Cables that exhibit "Cold Flow" characteristics.
  - Enclosures containing an ignition source in gas group II C areas or containing an ignition source in a Zone I area.
- See technical section of the catalogue for installation rules and regulations.

### Features

- Provides a barrier seal between the individual insulated cores within the cable and prevents entry of the products of an explosion into the cable.
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- The compound chamber may be separated from the cured compound to ensure that the chamber has been effectively filled. If required, external voids can be repaired.
- Provides armour clamping, using one clamping arrangement for all armour/braid types.
- Provides a seal and an electrical bond on the cables lead inner sheath.
- Provides an outer deluge seal to prevent moisture ingress to the cable armour/braid.
- Provides a cable retention and low smoke and fume, zero halogen seal onto the cables outer sheath.

### Technical Data

- Flameproof EExd and Increased Safety EExe. Ex II 2 GD
- Baseefa Certificate No. BAS 01 ATEX 2080X.
- Suitable for use in Zone 1, Zone 2, Zone 21 and Zone 22.
- Suitable for use in Gas Groups IIA, IIB and IIC.
- Construction and test standards EN 50014, EN 50018, EN 50019 and EN 50281-1-1. IEC 60079-0, IEC 60079-1 and IEC 60079-7.
- IP66, IP67 and IP68 (30 metres for 7 days) ingress protection to IEC 60529, EN 60529 and NEMA 4X.
- DTS01 deluge protection certified by ITS.
- Operating temperature range -60°C to +80°C as standard.
- Alternative Certification Options Available.

- Exd IIC/Exe II.
- BR-Exd IIC/Exe II.
- GOST R-Exd IICU/Exe IIIU.