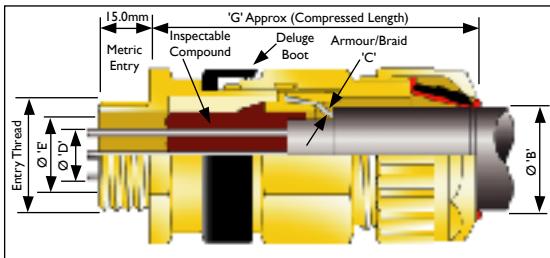


Cable Gland Type ICG 653/Universal



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' Max. Inner Sheath	Max. No. Of Cores	Min.	Max.	Orientation 1	Orientation 2			
Os	M20	1/2"	8.9	10.0	6	5.5	12.0	0.9/1.25	0/0.7	72.8	24.0	27.7
O	M20	1/2"	8.9	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"	11.0	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	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	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	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	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	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	66.2/65.3	120	57.0	78.0	1.8/2.5	0/1.0	101.2	95.0	109.6

Larger cable glands available in ICG 653 design. See page 23.

G	M80	3 1/2"	62.8	74.0	140	75.0	89.5	#	#	107.8	106.4	123.0
H	M90	3 1/2"	70.9	83.0	160	75.0	89.5	#	#	107.8	115.0	132.8
J	M100	4"	80.3	93.0	180	88.0	104.5	#	#	107.8	127.0	146.7

General Information

All Metric entry threads are 1.5mm pitch medium fit.

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

Dedicated armour clamping rings are fitted. Please specify armour type and size.

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

Assembly instruction data sheet No. A.I. 301.

For sizes Os to F.

Assembly instruction data sheet No. A.I. 327.

For sizes G to J.

Materials & Finishes

The ICG 653/Universal cable gland is manufactured as standard in brass and stainless steel. NPT entries, nickel plated as standard. Full nickel plating available.

Cable Gland Ordering Examples

Cable Gland Type/Size/Thread

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

Cable Gland with Alternative Clamping Ring (AR)

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

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

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.

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 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. For Os - F.
- BASEEFA Certificate No. BAS 01 ATEX 2297X. For G - J.□
- Suitable for use in Zone 1, Zone 2, Zone 2I 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 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 IIU.

ICG 653/Universal Cable Gland