

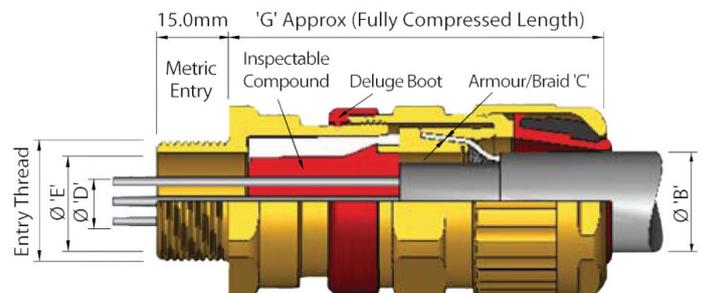
ICG 653/UNIVERSAL

Cable Glands - Hazardous Area

Flameproof Exd & Increased Safety Exe & Restricted Dual Certified ATEX / IECEx

Application

- Outdoor or indoor use
- For use with single wire armour 'W', wire braid 'X', steel tape armour '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 IIC areas or containing an ignition source in a Zone 1 area
- See technical section for installation rules and regulations.



Cable Gland Selection Table

Size Ref	Entry Thread Size		Cable Acceptance Details							'G'	Hexagon Dimensions	
	Metric	NPT * Standard or Option	Inner Sheath / Cores			Outer Sheath 'B'		Armour / Braid 'C'			Across Flats	Across Corners
			Max. Over Cores 'D'	Max Inner Sheath 'E'	Max. No. of Cores	Min	Max	Orientation 1	Orientation 2			
Os	M20	½"	8.9	10.0	6	5.5	12.0	0.8 / 1.25	0.0 / 0.8	67.0	24.0	26.5
O	M20	½"	8.9	10.0	6	9.5	16.0	0.8 / 1.25	0.0 / 0.8	67.0	24.0	26.5
A	M20	¾" or ½"	11.0	12.5	10	12.5	20.5	0.8 / 1.25	0.0 / 0.8	67.0	30.0	32.5
B	M25	1" or ¾"	16.2	18.4	21	16.9	26.0	1.25 / 1.6	0.0 / 0.7	73.6	36.0	39.5
C	M32	1¼" or 1"	21.9	24.7	42	22.0	33.0	1.6 / 2.0	0.0 / 0.7	78.0	46.0	50.5
C2	M40	1½" or ¾"	26.3	29.7	60	28.0	41.0	1.6 / 2.0	0.0 / 0.7	82.4	55.0	60.6
D	M50	2" or 1½"	37.1	41.7	80	36.0	52.6	1.8 / 2.5	0.0 / 1.0	88.7	65.0	70.8
E	M63	2½" or 2"	47.8	53.5	100	46.0	65.3	1.8 / 2.5	0.0 / 1.0	92.7	80.0	88.0
F	M75	3" or 2½"	59.0	66.2 / 65.3 ¹	120	57.0	78.0	1.8 / 2.5	0.0 / 1.0	99.4	95.0	104.0

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

¹ Smaller value is applicable when selecting reduced NPT entry option. Note: Larger sizes are available.

Technical Data

- Flameproof Exd and Increased Safety Exe II 2 GD ExtD A21
- Certificate No's:
Baseefa06ATEX0058X and IECEX BAS 06.0015X
- Suitable for use in Zone 1, Zone 2, Zone 21, Zone 22 and in Gas Groups IIA, IIB and IIC
- Construction and Test Standards: IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7, IEC/EN 61241-0 and IEC/EN 61241-1
- Ingress Protection: IP66, IP67 and IP 68 (30 metres for 7 days) to IEC/EN 60529 and NEMA 4X
- Deluge Protection to DTS01
- Operating Temperature Range: -60°C to +80°C
- Assembly Instruction Sheet: AI 301

Alternative certification options available:

-  Exe II
-  BR-Exd IIC / Exe II
-  Exd IIC / Exe II
-  DNV Marine Approval
-  GOST K- Approved for use in Kazakhstan
-  GOST R-Exe IIU
-  ABS Marine Approval

Features

- Provides a barrier seal to 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
- Manufactured in Brass (standard), Nickel Plated Brass, 316 Stainless Steel or Aluminium
- Brass NPT entries are nickel plated as standard.

Alternative Reversible Armour Clamping Rings (RAC) Selection Table

Size Ref	Steel Wire Armour / Braid / Tape	
	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

Format for ordering is as follows: Alternative Clamping Ring (AR), add suffix AR to ordering information.

Cable Gland Type	Size	Thread	(Optional)
ICG 653/UNIV	C	M32	AR
ICG 653/UNIV	C	1 1/4"NPT	AR

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