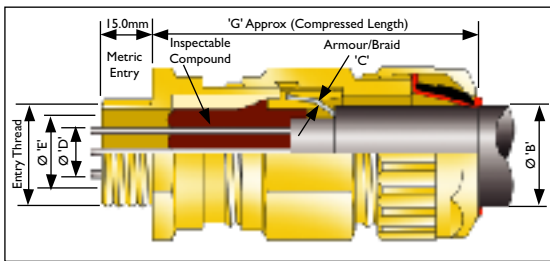


# Group I Cable Gland 653/Universal

ATEX   Mining

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" or 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" or 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" or 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" or 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" or 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" or 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" or 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		

### General Information

All Metric entry threads are 1.5mm pitch medium fit.

All dimensions in millimetres

(except\* where dimensions are in inches).

+ Smaller value is applicable when selecting reduced NPT entry option.

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

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

Accessories including locknuts, sealing washers, serrated washers, earth tags, shrouds, adaptors and reducers available.

### Materials & Finishes

The 653/Universal cable gland is manufactured as standard in brass or stainless steel. NPT entries, nickel plated as standard. Full nickel plating by electroplating or electroless plating is also available.

### Cable Gland Ordering Examples

**Cable Gland Type/Size/Thread**

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

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

e.g. 653/UNIV/C/M32/AR  
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

### 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 use in all mining applications particularly those with :-**

- a) Cables that are not effectively filled, compact and/or circular, have tape bedding or have hygroscopic fillers.
- b) Cables that exhibit "Cold Flow" characteristics.
- c) Enclosures containing an ignition source.

### 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 W, X & Z armour/braid types.
- Provides a cable retention seal onto the cables outer sheath.
- Seal manufactured from a low smoke and fume, zero halogen material.

### Technical Data

- Flameproof EExd I and Increased Safety EExe I.  I M2
- Baseefa Certificate No. Baseefa 02 ATEX 0175X.
- Suitable for use in Mines.
- Construction and test standards EN 50014, EN 50018, EN 50019
- IP66, IP67 and IP68 ingress protection to IEC 60529 and EN 60529.
- Operating temperature range -60°C to +80°C as standard.

653/Universal Cable Gland