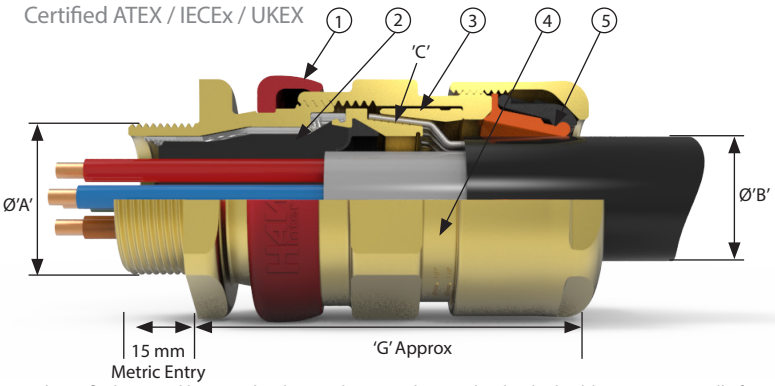
MADE IN BRITAIN

ICG/653/UNIV

Flameproof, Increased Safety, Dust Protection and Restricted Breathing
Class - Zones - Divisions
Certified ATEX / IECEx / UKEX

International Approvals



- **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** Patented Cable Gland Tightening Guide
  - Helps prevent damage caused by over tightening
- **5** Unique Rear Seal - Offering ultimate sealing over an extremely wide cable acceptance range

Dual certified Exe/Exd barrier gland, providing a seal around individual cable cores, especially for cables that exhibit "cold flow" characteristics, 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. The ICG/653/UNIVERSAL is available with either ExPress liquid barrier resin or QSP 2-part hand mix compound, both with a cure time 30 minutes

Cable Gland Selection Table

Size Ref.	Entry Thread Size 'A'		Cable Acceptance Details								'G'	Hexagon Dimensions	
			Inner Sheath/Cores				Outer Sheath 'B'		Armour/Braid 'C'				
	Metric	NPT*	Max Inner Sheath Dia	Max Over Core Dia	Max No of Cores	Max No of Fibre Optic	Min	Max	Orientation 1	Orientation 2		Across Flats	Across Corners
Os	M20[2]	½"	8.1**	8	12	48	5.5	12	0.8 / 1.25	0.0 / 0.8	58.4	24	26.5
O	M20[2]	½"	11.7	8.8	12	48	9.5	16	0.8 / 1.25	0.0 / 0.8	58.4	24	26.5
A	M20	¾" or ½"	14	10.8	15	72	12.5	20.5	0.8 / 1.25	0.0 / 0.8	60.6	30	32.5
B	M25	1" or ¾"	19.9	15.9	30	144	16.9	26	1.25 / 1.6	0.0 / 0.7	67.3	36	39.5
C	M32	1¼" or 1"	26.2	21.9	42	-	22	33	1.6 / 2.0	0.0 / 0.7	73.2	46	50.5
C2	M40	1½" or 1¼"	32.3	26.7	60	-	28	41	1.6 / 2.0	0.0 / 0.7	78.3	55	60.6
D	M50	2" or 1 1½"	44.2	37.7	80	-	36	52.6	1.8 / 2.5	0.0 / 1.0	97.5	65	70.8
E	M63	2½" or 2"	56	49	100	-	46	65.3	1.8 / 2.5	0.0 / 1.0	93.5	80	88
F	M75	3" or 2½"	68	59.8	120	-	57	78	1.8 / 2.5	0.0 / 1.0	104.5	95	104

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 instruction 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/B0 DNV: 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

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HUBBELL Harsh & Hazardous

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

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

Cable Gland Type	Size	Thread	Barrier Type	Material	(Optional)
ICG 653/UNIV	C	M32	N/A (Express Resin supplied as standard)	Brass	AR
ICG 653/UNIV	C	1 1/4 "	QSP (2 part putty compound)	Brass	AR

Assembly instructions are supplied with the cable gland

Example Code: ICG 653/UNIV C M32 Stainless Steel

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.

EXPRESS

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.