



# 710

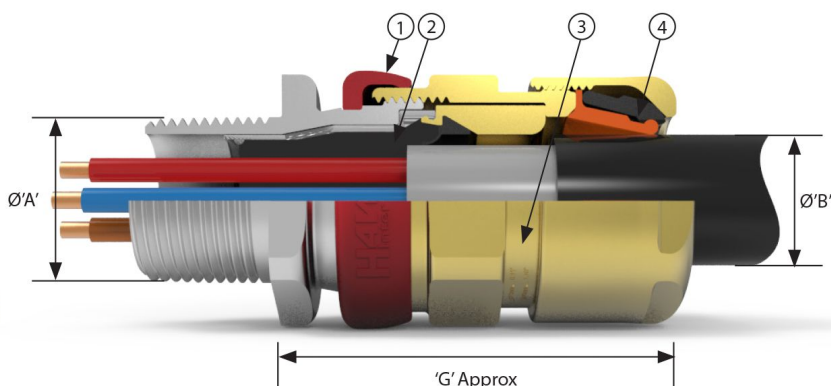
North American

Explosion proof, IECEx and ATEX Approved Flameproof Exd, Increased Safety Exe

Dual Marked UL & ATEX as standard



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

The NEC® Compliant 710 dual certified Exe/Exd cable gland is suitable for use with the following cable types: TC-ER-HL, TC-ER, PLTC, PLTC-ER, ITC, ITC-HL & ITC-ER (see technical data for more information). The gland provides a barrier seal around the individual cores within the cable and prevents entry of the products of an explosion into the cable. The gland features the worlds only NEC® compliant transparent elastomeric fully inspectable compound chamber.

### Cable Gland Selection Table

Size Ref.	Entry Thread Size 'A'		Cable Acceptance Details						'G'	Hexagon Dimensions	
	Metric	NPT <sup>1</sup> Standard	Inner Jacket Cores 'ØA'				Outer Jacket 'ØB'			Across Flats	Across Corners
			Max Over Cores 'D'	Min Inner Jacket 'E'	Max Inner Jacket 'E'	Max No of Cores	Min	Max			
Os	M20	½"	0.31"	0.14"	0.32"	12	0.22"	0.47"	2.30"	0.94"	1.04"
O	M20	½"	0.35"	0.26"	0.46"	12	0.37"	0.63"	2.30"	0.94"	1.04"
A	M20	¾" or ½"	0.43"	0.33"	0.55"	15	0.49"	0.81"	2.39"	1.18"	1.28"
B	M25	1" or ¾"	0.63"	0.44"	0.78"	30	0.66"	1.02"	2.65"	1.42"	1.56"
C	M32	1¼" or 1"	0.86"	0.69"	1.03"	42	0.87"	1.30"	2.88"	1.81"	1.99"
C2	M40	1½" or 1¼"	1.05"	0.91"	1.27"	60	1.10"	1.61"	3.08"	2.17"	2.39"
D	M50	2"	1.48"	1.14"	1.74"	80	1.42"	2.07"	3.84"	2.56"	2.79"
E	M63	2½"	1.93"	1.57"	2.20"	100	1.81"	2.57"	3.68"	3.15"	3.46"
F	M75	3"	2.35"	1.99"	2.68"	120	2.24"	3.07"	4.11"	3.74"	4.09"

Os-F size metric entry threads are 1.5mm pitch as standard, 15mm length of thread.

### Technical Data

Ingress Protection	IP66, IP67, IP68* (30 metres for 7 days; special conditions may apply), IP69 to IEC/EN 60529 and NEMA 4X
Deluge Protection	to DTS01
Operating Temperature	-50°C to +80°C

#### NEC/CEC

NEC Protection Class	Class I Div 1 ABCD; Class II Div 1 EFG; Class III Class I Div 2 ABCD, Class II Div 2 FG and Class III Div 2 Class I, Zone 1, AEx d IIC; AEx e IIC; Zone 21, AEx tb IIIC
CEC Protection Class	Class I Div 1 ABCD; Class II Div 1 EFG; Class III Class I Div 2 ABCD, Class II Div 2 FG and Class III Div 2 Ex db IIC Gb; Ex eb IIC Gb; Ex tb IIIC Dc
Cable Types	TC-ER-HL, ITC-HL, TC, TC-ER, PLTC, PLTC-ER, ITC, ITC-ER
c UL us Listing Number	E84940
Construction & Test Standards	UL2225, UL514B, CSA C22.2 NO. 18.3-12, CSA 22.2 60079-0, CSA 22.2 60079-1, CSA 22.2 60079-7 and CSA 22.2 60079-31

#### ATEX/IECEx

ATEX/IECEx Protection Class	Ex II 2GD Ex db IIC Gb; Ex eb IIC Gb; Extb IIIC Db
ATEX Certificate No	CML 18ATEX1268X
IECEx Certificate No	CML 18.0131X
Construction & Test Standards	IEC/EN 60079-0, IEC/EN 60079-1, IEC/EN 60079-7 and IEC/EN 60079-31
Additional Certifications	EAC: TC RU C-GB HA91 B 0046 19 Inmetro: IEx 14.0272X PESO: P450038

### Ordering Information

Format for ordering is as follows:

Cable Gland Type	Size	Thread	Material
710	C	M32	Stainless Steel
710	C	1" NPT	Brass

Order Example: 710 C M32 Stainless Steel

# Barrier Gland Options

ExPress barrier resin – a liquid injectable and fast curing resin, allowing for faster installation time than traditional 2-part compounds. Utilising a unique clear compound chamber allowing full visibility of the flameproof seal during installation and inspection, the ExPress barrier resin is unparalleled as a global Exd solution.

QSP 2-part hand mix putty, simple to use with a cure time from 30 minutes. Particularly useful where termination space is limited or cables are running horizontally to the installation area. Can be inspected and repaired if necessary, allowing for the very highest level of safety.



## 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.

### How it works

The gland is permanently marked with various lines/numbers indicating the correct tightening level related to the cable diameter. Following the relevant cable gland Installation Instructions, the back seal should be tightened until a seal is formed on the cable outer sheath and then tightened one further turn.



Follow cable gland installation instructions until final stage – tightening of rear seal



Tighten backnut until a seal is formed onto the cable, then tighten one further turn



The backnut should be level with the marking guide corresponding to its diameter – this can be visually inspected and adjusted as necessary