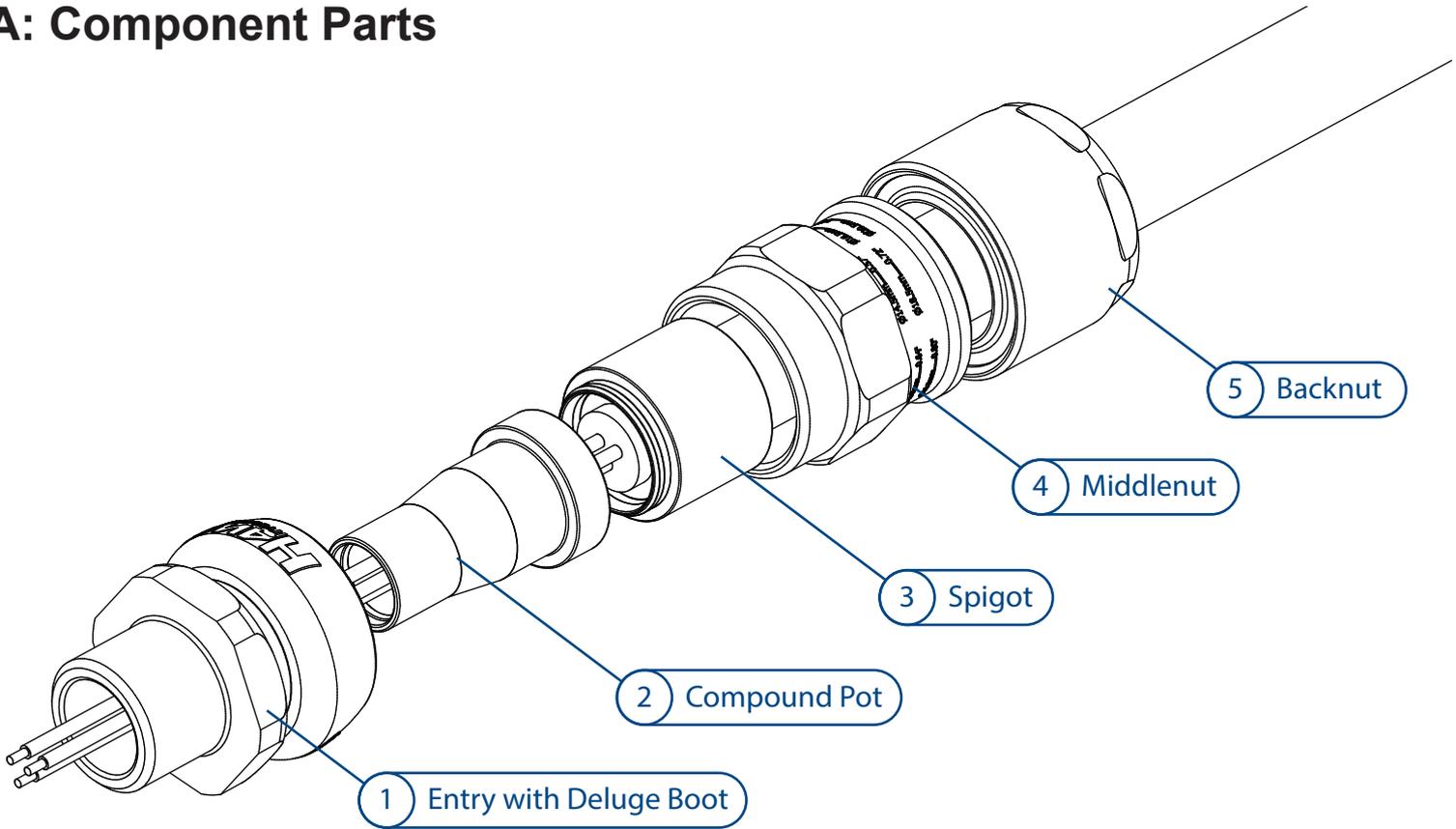


A: Component Parts



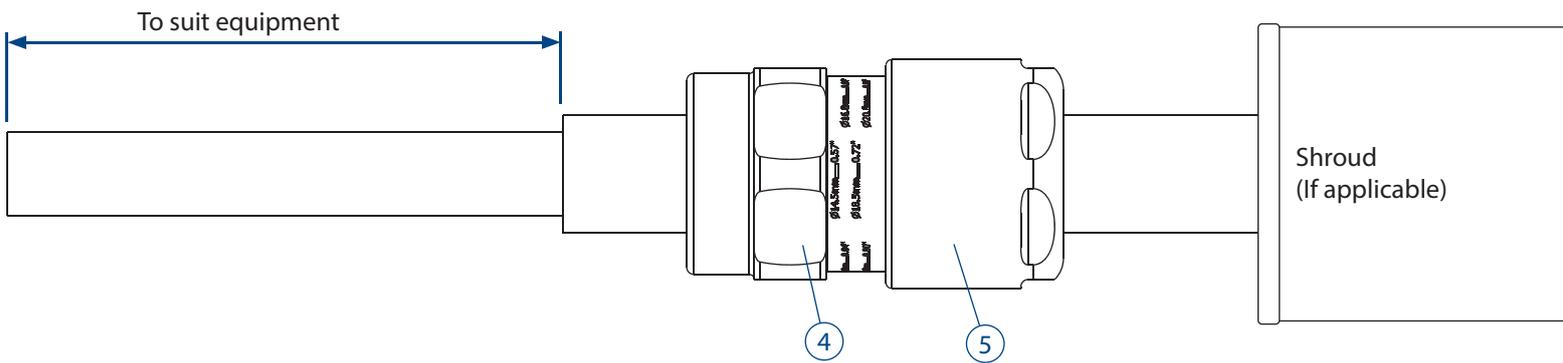
B: Cable Preparation

Slide shroud (if included), backnut ⑤ and middlenut ④ onto cable.

Cut cable length and strip outer sheath to suit equipment.

For preparation of Drain Wires see separate AI 2028.

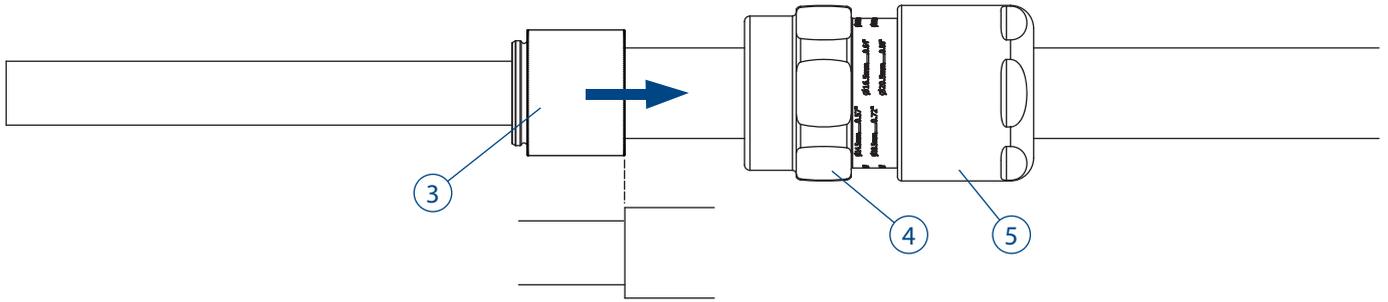
If an inner sheath is not present and using Express Resin, use electrical tape wrapped around the base of the cores to create a suitable sealing surface.



C: Installing Cable Gland

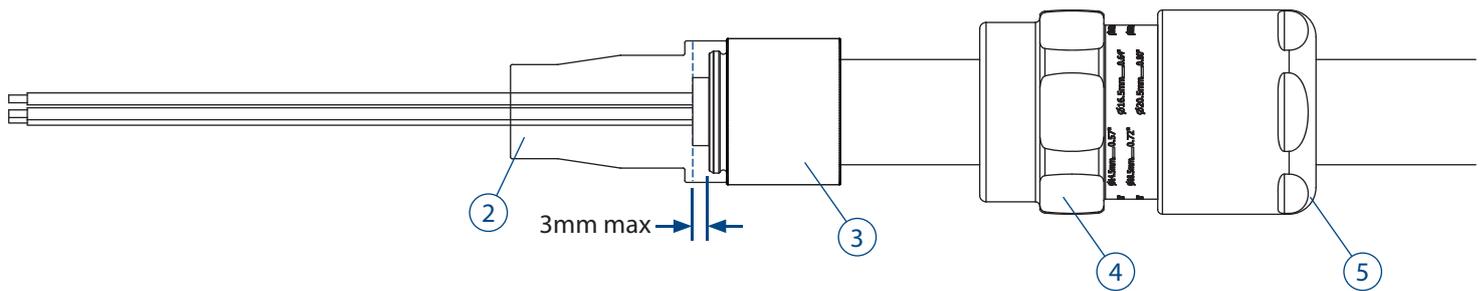
STEP 1: Fit Spigot

Check cut end of cable inner sheath for any sharp edges. If necessary clean up with a knife or apply electrical tape to smooth corners. Slide spigot ③ over cable, taking care not to damage rubber resin dam, until rear end of spigot is at the point the inner sheath is stripped back.



STEP 2: Strip inner sheath to expose cores

Strip inner sheath back to between flush and 3mm from end of spigot ③, taking care not to damage resin dam. Ensure the inner sheath protrudes through the resin dam. Fit the pot ② and check that the inner sheath is below the height of the pot shoulder as shown below.



STEP 3: Pot gland with compound

Gland assembly is now ready for compound. Refer to the correct instructions depending on compound type. These instructions are supplied with the compound.

HAWKESEAL

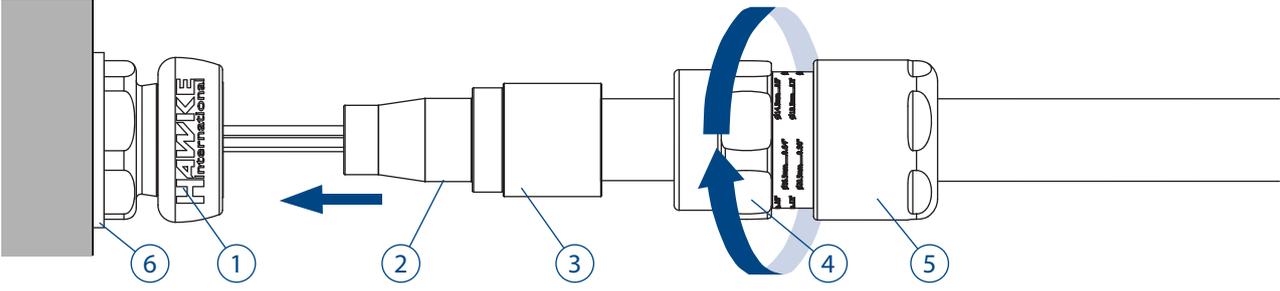
2-Part Epoxy Putty
See AI 2034



2-Part Pouring Epoxy Resin
See AI 2035

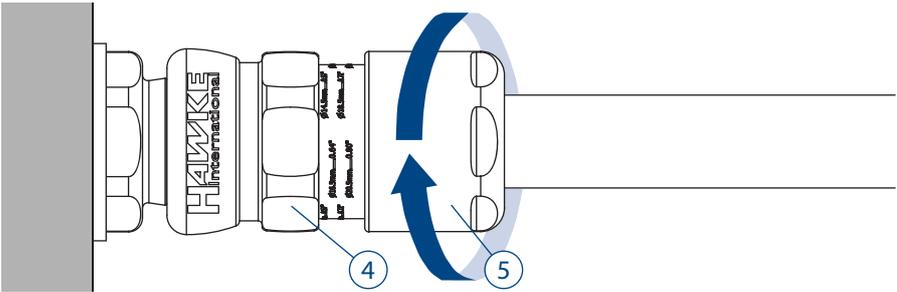
STEP 4: Fit to Enclosure

Now potting the gland is complete, use a wrench to fit entry ① into enclosure. If required, use the appropriate IP washer ⑥. Slide cable through entry ① until pot ② is seated in the entry. Hand tighten the middle nut ④ to entry and add 1/5 - 1/4 turn with a wrench.



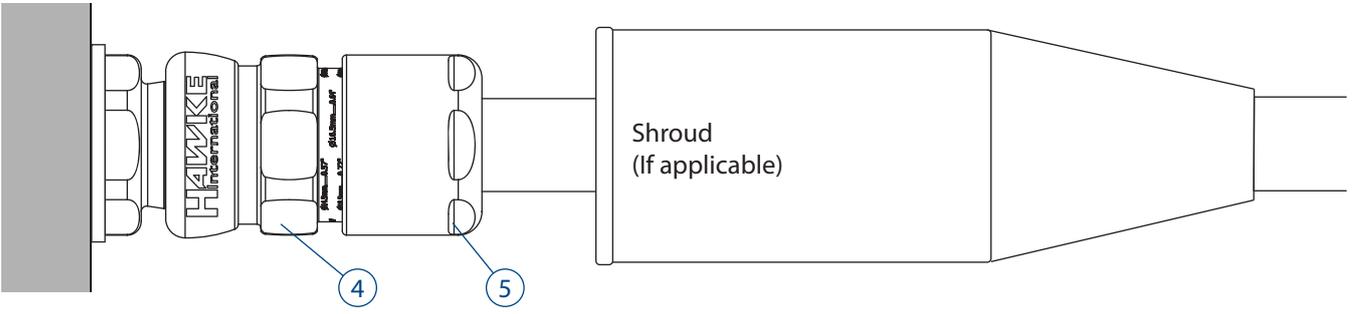
STEP 5: Install Backnut

Hand tighten the backnut ⑤ until a seal is formed around the cable. Use a wrench/spanner to grip the middle nut ④. While preventing the middle nut ④ turning, use a second wrench to apply one further full turn to the backnut ⑤.



STEP 6: Inspect Backnut

Use the middle nut ④ guide as an indication that the backnut ⑤ is in the correct position to suit cable diameter. A diameter scale below is provided to assist this process. Slide shroud over cable gland if applicable.



TECHNICAL DATA

Cable Gland Type: 710-X
Equipment Type: Group II Barrier Cable Glands
Ingress Protection: IP66, IP67, IP68*, IP69, NEMA 4X
 *30m for 7 days with thread sealant
 10m for 24hrs no thread sealant, Os-C size only
Operating Temp: -50°C to +80°C (UL)
 -60°C to +80°C (ATEX/IECEX)

CERTIFICATION DETAILS

UL: Class I, Zone 1, AEx d IIC, Ex db IIC Gb, AEx e IIC, Ex eb IIC Gb;
 Zone 21, AEx tb IIIC, Ex tb IIIC Db
 Class I, Zone 2, AEx d IIC, Ex db IIC Gb, AEx e IIC, Ex eb IIC Gc;
 Zone 22, AEx tb IIIC Dc, Ex tb IIIC Dc

Class I Div 1 ABCD, (TC-ER-HL max O/D 1", ITC-HL)
 Class II Div 1 EFG & Class III (ITC-HL)
 Class I Div 2 ABCD, Class II Div 2 FG & Class III Div 2 (TC, TC-ER; PLTC,
 PTLC-ER, ITC, ITC-ER)

Listing No. E84940
 Sealing compound to be indicated in gland marking with SL suffix

ATEX/IECEX:

Ex db IIC Gb / Ex eb IIC Gb / Ex tb IIIC Db
 ATEX: CML18ATEX1268X
 IECX: CML 18.0131X

SPECIFIC CONDITIONS OF USE

- When the gland is used for increased safety, the entry thread shall be suitably sealed to maintain the ingress protection rating of the associated enclosure.
- Compound cross section must be minimum 20% of total area over a depth of 20mm.

ACCESSORIES

Hawke offer the following accessories to enable correct ingress protection and grounding of cable gland.

Shroud: For additional corrosion protection
Locknut: To secure gland into position
Sealing Washer: For additional ingress protection
Earth Tag: For external bonding point
Serrated Washer: To prevent vibration loosening locknuts

INSTALLATION NOTES

- All cable glands must be installed by a suitably trained and competent individual.
- Entry threads are in accordance with Metric BS3643 or ANSI/ASME B1.20.1
- Installer must check material compatibility with enclosure and environment.
- To maintain IP66/IP67/IP69, Hawke certified sealing washer or other approved sealing method must be used.
- Sealing face surface must be smooth and free from damage
- Wall thicknesses depended on thread length or retention type (locknut etc). Exd must maintain the requirements of IEC/EN 60079-1
- All entries must be installed perpendicular to the mounting surface.

TORQUE VALUES

All torque values below were generated on metallic mandrels. For cable, it is recommended that the assembly instructions are followed.

Torque Figures N/m									
Gland Size	Os	O	A	B	C	C2	D	E	F
Backnut Torque	12	12	20	30	35	45	56	60	75

CABLE GLAND SELECTION TABLE												
Size Ref.	Entry Thread Size		Cable Acceptance Details							Max Length	Hexagon Dimensions	
			Inner Jacket		Cores			Outer Sheath			Across Flats	Across Corners
	Metric	NPT	Min. Dia	Max. Dia	Max. Over Cores	Max. No. of Cores	Max. No. Fibre Optic	Min.	Max.			
Os	M20	½"	0.14"	0.32"	0.31"	12	48	0.22"	0.47"	2.85"	0.94"	1.04"
O	M20	½"	0.26"	0.46"	0.35"	12	48	0.37"	0.63"	2.85"	0.94"	1.04"
A	M20	½" - ¾"	0.33"	0.55"	0.43"	15	72	0.49"	0.81"	3.00"	1.18"	1.28"
B	M25	¾" - 1"	0.44"	0.78"	0.63"	30	144	0.67"	1.02"	3.22"	1.42"	1.56"
C	M32	1" - 1¼"	0.69"	1.03"	0.86"	42	-	0.87"	1.30"	3.50"	1.81"	1.99"
C2	M40	1¼" - 1½"	0.91"	1.27"	1.05"	60	-	1.10"	1.61"	3.80"	2.17"	2.39"
D	M50	2"	1.14"	1.74"	1.48"	80	-	1.42"	2.07"	4.82"	2.56"	2.79"
E	M63	2½"	1.57"	2.20"	1.93"	100	-	1.81"	2.57"	4.67"	3.15"	3.46"
F	M75	3"	1.99"	2.68"	2.35"	120	-	2.24"	3.07"	5.07"	3.74"	4.09"

EU Declaration of Conformity in accordance with European Directive 2014/34/EU

Provisions of the Directive fulfilled by the Equipment:
 Group II Category 2/3 GD Ex eb IIC Gb, Ex db IIC Gb, Ex tb IIIC Db - IP66

Notified Body for EU-Type Examination: CML 2776 Chester UK
EU-type Examination Certificate: CML18ATEX1268X
Notified Body for production: SGS-Baseefa 1180 Buxton UK
Harmonised Standards used: EN 60079-0:2018, EN60079-1:2014, EN60079-7:2015, EN60079-31:2014

On behalf of the aforementioned company, I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives.

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 A. Tindall
 Technical Manager