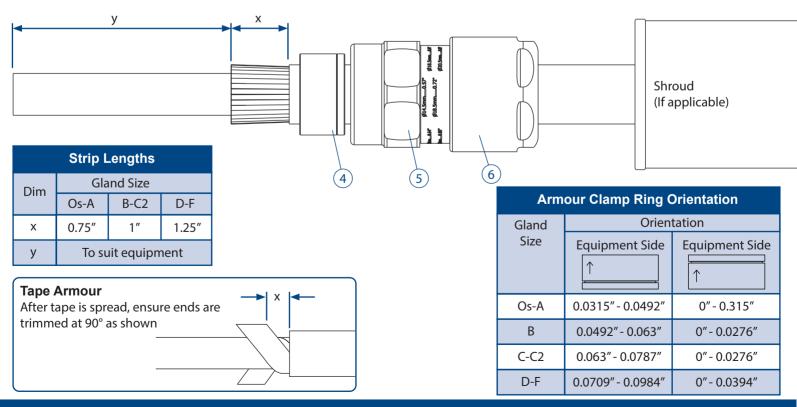


B: Cable Preparation

Slide shroud (if included), backnut [®], middlenut [®] and armour clamp ring ^④ onto cable. Confirm orientation of armour clamp ring is correct (see table below).

Cut cable length, strip outer sheath and cut armour to lengths as shown in table below. For preparation of Drain Wires see 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.





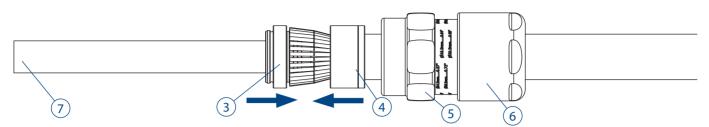


C: Installing Cable Gland

STEP 1: Fit Armour To Spigot

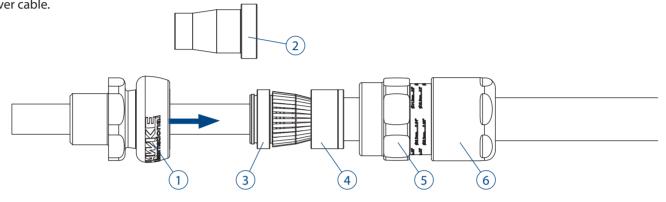
Check cut end of cable inner sheath for any sharp edges ⑦. If necessary clean up with a knife or apply electrical tape to smooth corners. Slide spigot ③ over cable taking care not to damage resin dam.

Push armour/braid up to spigot shoulder. Slide clamping ring ④ up to the armour/braid by hand.



STEP 2: Prepare to Clamp Armour/Braid

Ensure compound pot $\ensuremath{\mathbb{C}}$ is removed from assembly. Slide Entry $\ensuremath{\mathbb{O}}$ over cable.

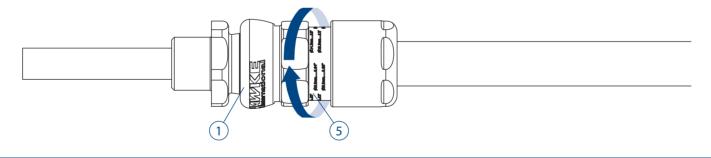


STEP 3: Clamp Armour/Braid

Slide middlenut [©] up to entry and hand tighten.

Grip the entry ① with a spanner/wrench.

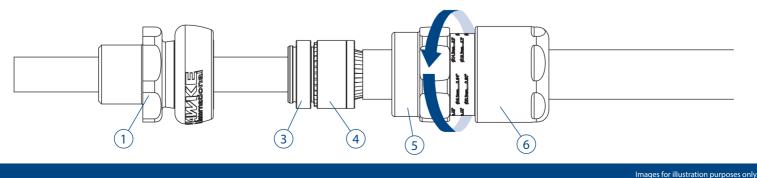
Use a second spanner/wrench to tighten half to three quarters of a turn.



STEP 4: Inspect Armour/Braid

Unscrew the middlenut (5). The armour clamp ring (4) should now be locked in place. Visually inspect that the armour/braid has been successfully clamped between the spigot (3) and the armour clamp ring (4).

If clamping is not satisfactory, repeat step 3.



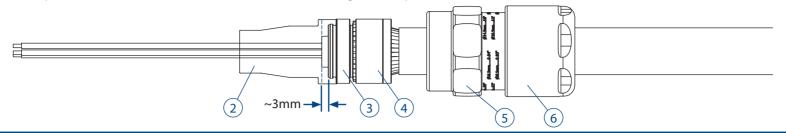
45

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STEP 5: 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 6: 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

2-Part Pouring Epoxy Resin See AI 2035

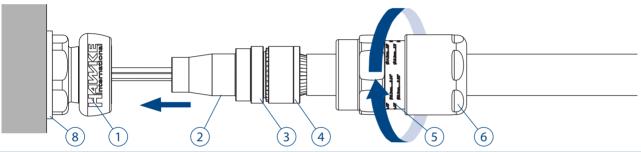
PRESS

STEP 7: Fit to Enclosure

Now potting gland is complete, use a wrench to fit entry ① into enclosure. If required, use the appropriate IP washer \circledast . Slide cable through entry ① until pot @ is seated in the entry.

Hand tighten the middlenut (5) to entry and add 1/5 - 1/4 turn with a wrench.

See AI 2034

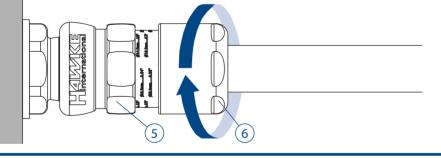


STEP 8: Install Backnut

Hand tighten the backnut [®] until a seal is formed around the cable.

Use a wrench/spanner to grip the middlenut ⑤.

While preventing the middlenut (5) turning, use a second wrench to apply one further full turn to the backnut (6).



STEP 9: Inspect Backnut

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Use the middlenut ⁽⁵⁾ guide as an indication that the backnut ⁽⁶⁾ is in the correct position. A diameter scale below is provided to assist this process. Slide shroud over cable gland if applicable.

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Images for illustration purposes only. Product supplied may differ from <u>that shown</u>.

 55
 60
 65
 70
 75
 80
 Diameter Scale (mm)

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 |
 |
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 |
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 Correct when printed A4 Booklet Style

Technical Information



Cable Gland Type: 753 **Equipment Type:** American Series Barrier Cable Glands **Ingress Protection:** IP66, IP67, IP68*, IP69, NEMA 4X *30m for 7 days to EN60529 with thread sealant S 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 / UKEx)

CERTIFICATION DETAILS

TECHNICAL DATA

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, Ex tb IIIC Dc

Class I Div 1 ABCD, Class II Div 1 EFG & Class III Class I Div 2 ABCD, Class II Div 2 FG & Class III (ITC, PLTC)

Listing No. E84940

Sealing compound is indicated in gland marking with SL suffix Also suitable for marine shipboard cable employing copper, bronze, aluminium or steel grounding braid

ATEX/IECEx:

Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex tb IIIC Db UKEx: CML21UKEX1132X ATEX: CML18ATEX1268X IECx: CML 18.0131X

SPECIFIC CONDITIONS OF USE

1. 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.

2. 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

1. All cable glands must be installed by a suitably trained and competent individual.

2. Entry threads are in accordance with Metric BS3643 or ANSI/ASME B1.20.1 3. Installer must check material compatability with enclosure and environment

4. To maintain IP66/IP67/IP69, Hawke certified sealing washer or other approved sealing method must be used.

5. Sealing face surface must be smooth and free from damage 6. Wall thicknesses depended on thread length or retention type (locknut etc). Exd must maintain the requirements of IEC/EN 60079-1

7. 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	0	А	В	С	C2	D	Е	F
Middlenut Torque	6	6	8	8	10	15	15	28	35
Backnut Torque	12	12	20	30	35	45	56	60	75

CABLE GLAND SELECTION TABLE													
	Enter	. Thus a d	Cable Acceptance Details									Llovenen	
Size Ref.	Entry Thread Size		Inner Jacket	Cores			Outer Sheath		Steel Wire A Tape/Br	Мах	Hexagon Dimensions		
	Metric	NPT	Max. Dia	Max. Over Cores	Max. No. of Cores (ATEX)	Max .No. Fibre Optic (ATEX)	Min.	Max.	Orientation 1	Orientation 2	Length	Across Flats	Across Corners
Os	M20	1⁄2"	0.32″	0.31″	12	48	0.22″	0.47″	0.0315"/0.0492"	0"/0.0315"	2.85″	0.94″	1.04″
0	M20	1⁄2"	0.46″	0.35″	12	48	0.37″	0.63″	0.0315″/0.0492″	0"/0.0315"	2.85″	0.94″	1.04″
А	M20	1⁄2" - 3⁄4"	0.55″	0.43″	15	72	0.49″	0.81″	0.0315"/0.0492"	0"/0.0315"	3.00″	1.18″	1.28″
В	M25	³ ⁄4" - 1"	0.78″	0.63″	30	144	0.67″	1.02″	0.0492″/0.063″	0"/0.0276"	3.22″	1.42″	1.56″
С	M32	1" - 1¼"	1.03″	0.86″	42	-	0.87″	1.30″	0.063″/0.0787″	0"/0.0276"	3.50″	1.81″	1.99″
C2	M40	1¼" - 1½"	1.27″	1.05″	60	-	1.10″	1.61″	0.063″/0.0787″	0"/0.0276"	3.80″	2.17″	2.39″
D	M50	2"	1.74″	1.48″	80	-	1.42″	2.07″	0.0709″/0.0984″	0"/0.0394"	4.82″	2.56″	2.79″
Е	M63	21⁄2"	2.20″	1.93″	100	-	1.81″	2.57″	0.0709″/0.0984″	0"/0.0394"	4.67″	3.15″	3.46″
F	M75	3"	2.68″	2.35″	120	-	2.24″	3.07″	0.0709"/0.0984"	0"/0.0394"	5.07″	3.74″	4.09″

EU Declaration of Conformity in accordance with European Directive 2014/34/EU and UK Statutory Instrument 2016/1107

Manufacturer: Hawke International, Oxford Street West, Ashton-under-Lyne, OL7 0NA, United Kingdom

Provisions of the Directive fulfilled by the Equipment: Group II Category 2GD Ex db eb IIC Gb, Ex nR IIC Gc, Ex tb IIIC Db – IP66 67 68 69 Harmonized Standards used: EN 60079-0:2018, EN60079-1:2014, EN60079-7:2015+A1:2018, EN60079-15:2019, EN60079-31:2014

Notified Body for EU-Type Examination: CML B.V. 2776 Amsterdam, NLD EU-type Examination Certificate: CML18ATEX1268X, CML19ATEX4507X (Ex nR) Notified Body for production: 0598

Approved Body for UK-Type Examination: CML B.V. 2503 Chester, UK UK-type Examination Certificate: CML21UKEX1132X, CML21UKEX4133X (Ex nR) Approved Body for production: 1180

On behalf of the above named 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.



Hawke International is a division of Hubbell Ltd. Registered No. 669157 in England. Registered Office: Cannon Place, 78 Cannon Street, London EC4N 6AF.

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