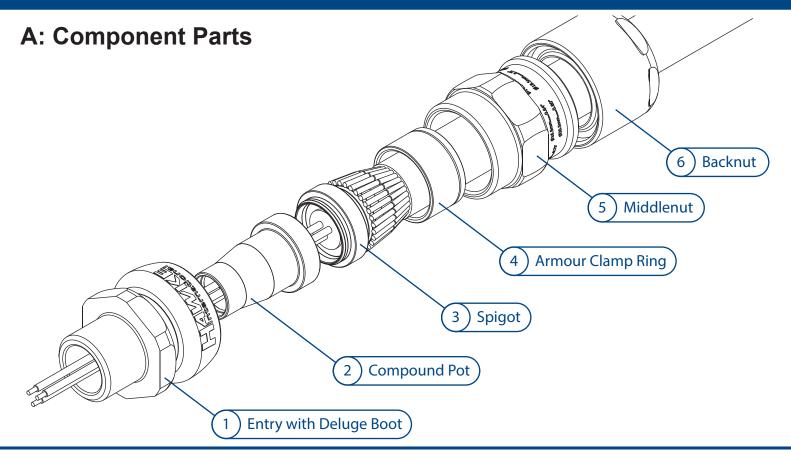
Cable Gland Assembly Instructions 753-X





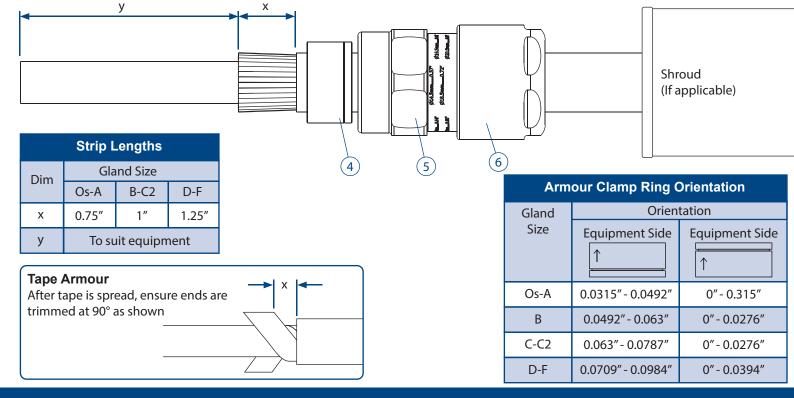
B: Cable Preparation

Slide shroud (if included), backnut \$, middlenut \$ and armour clamp ring \$ 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 Al 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.



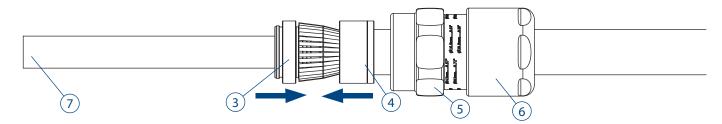


C: Installing Cable Gland

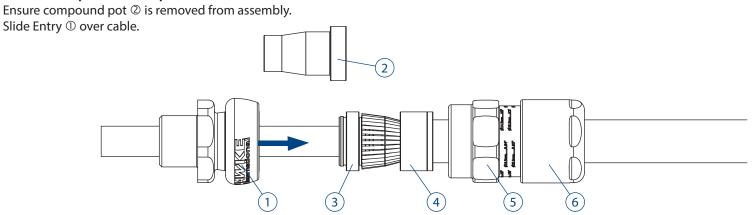
STEP 1: Fit Armour To Spigot

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

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



STEP 2: Prepare to Clamp Armour/Braid

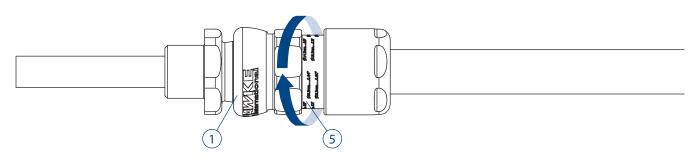


STEP 3: Clamp Armour/Braid

Slide middlenut ⑤ 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.

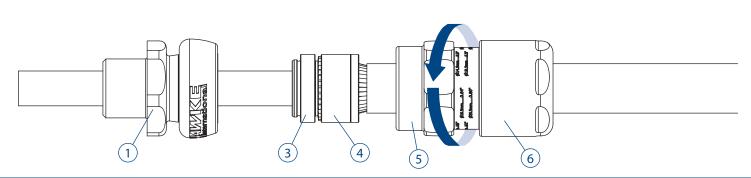


STEP 4: Inspect Armour/Braid

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.



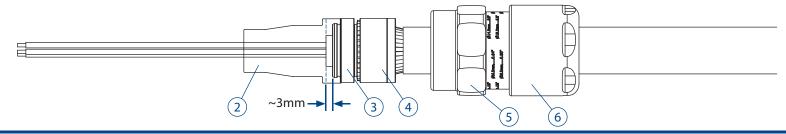
Images for illustration purposes only
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Product supplied may differ from that shown

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 See Al 2034



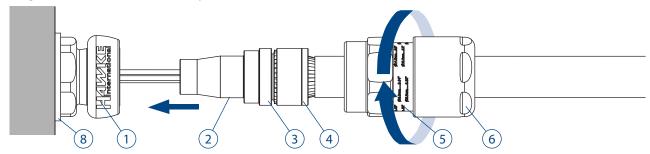
2-Part Pouring Epoxy Resin See AI 2035

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 ⑧.

Slide cable through entry ① until pot ② is seated in the entry.

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

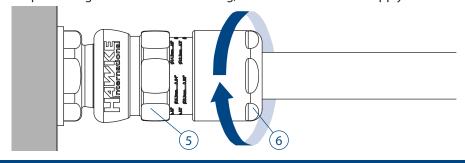


STEP 8: Install Backnut

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 \$\sigma\$ turning, use a second wrench to apply one further full turn to the backnut \$\sigma\$.

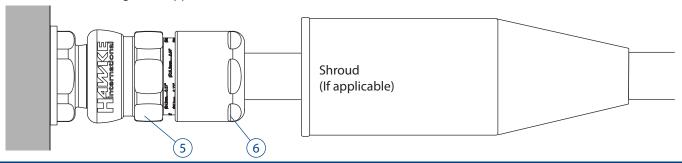


STEP 9: Inspect Backnut

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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Diameter Scale (mm) Correct when printed A4 Booklet Style

Technical Information **753_X**

H4V/KE International

TECHNICAL DATA

Cable Gland Type: 753-X

Equipment Type: American Series Barrier Cable Glands 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, 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

ATFX/IFCFx:

Ex db IIC Gb / Ex eb IIC Gb / Ex tb IIIC Db

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 protectionLocknut:To secure gland into positionSealing Washer:For additional ingress protectionEarth 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 | Α | В | C | 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 | | | | | | | | | | | | | | |
|-----------------------------|----------------------|---------------|--------------------------|-----------------------|--------------------------------|-----------------------------------|--------------|-------|----------------------------------|---------------|--------|-----------------------|-------------------|--|
| | Entry Thread Size | | Cable Acceptance Details | | | | | | | | | | | |
| Size Ref. | | | Inner Jacket | Cores | | | Outer Sheath | | Steel Wire Armour/ Tape/Braid | | Max | 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" | |
| Α | 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" | |
| C | 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 | 11⁄4" - 11⁄2" | 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 | 2½" | 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

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.

A. Tindall Technical Manager

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