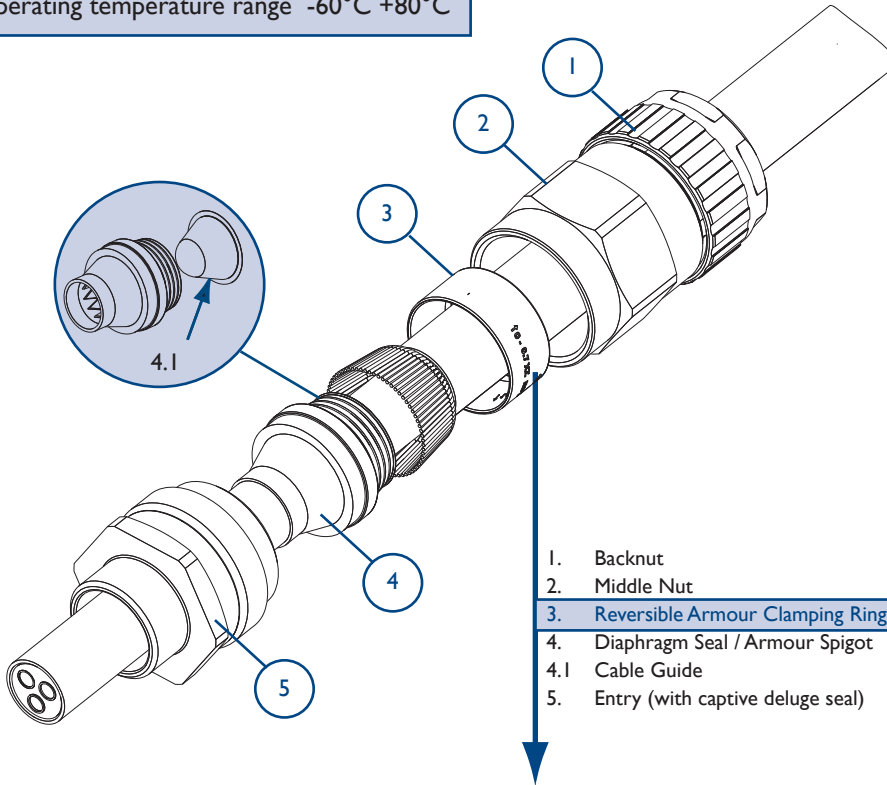


# Assembly Instructions for cable gland: 501/453/UNIV Exd IIC/Exe II/ExtD

Operating temperature range -60°C +80°C



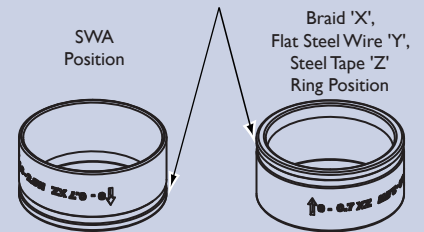
1. Backnut
2. Middle Nut
3. Reversible Armour Clamping Ring (RAC)
4. Diaphragm Seal / Armour Spigot
- 4.1 Cable Guide
5. Entry (with captive deluge seal)

### Certification Details

Gland Type: 501/453/UNIV Exd IIC/Exe II/ExtD  
 Baseefa06ATEX0057X (E) II 2 GD A21 IP66 (C)  
 IECEx BAS06.0014X  
 CEPEL-EX-063/2001X  
 GOST R No: POCC GB.ГБ05.В0183 I  
 CSA No: 1015065 (LR 78713-7)  
 CNEEx07.0900X

### Reversible Armour Clamping Ring (RAC)

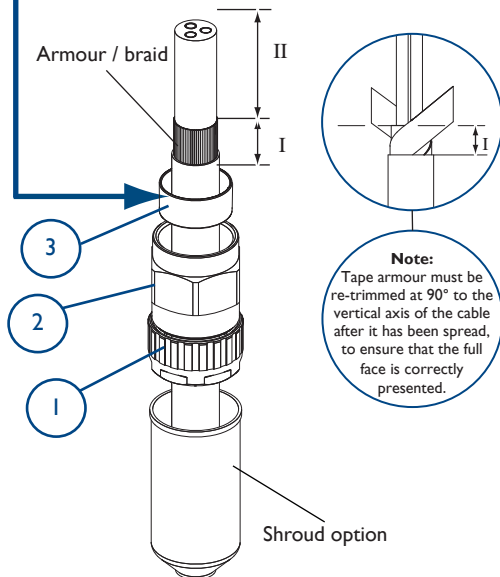
General identification ring orientation for:



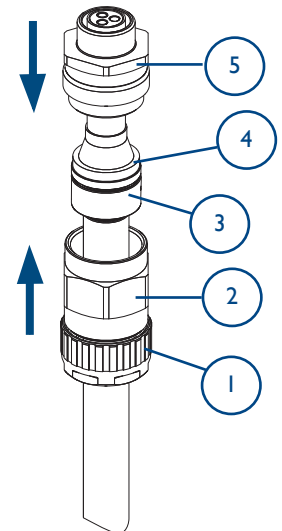
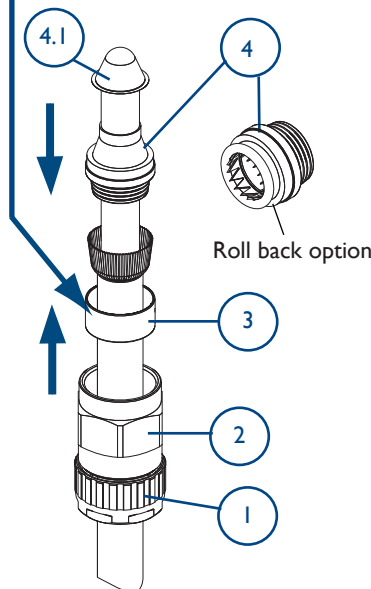
**IMPORTANT:** The arrowhead indicating the correct armour thickness or type should point towards the equipment

**Note:** Cable acceptance sizes are marked on the diaphragm seal, clamping ring and backnut.

### Cable Preparation



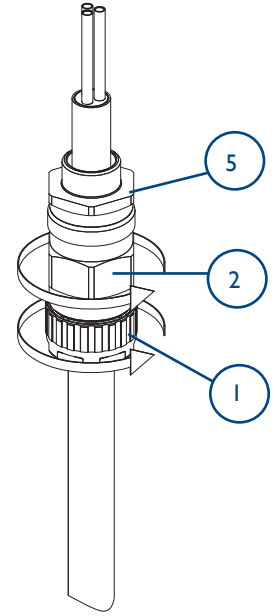
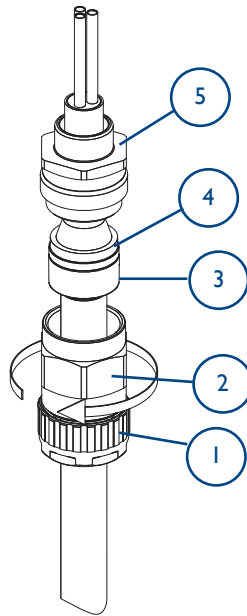
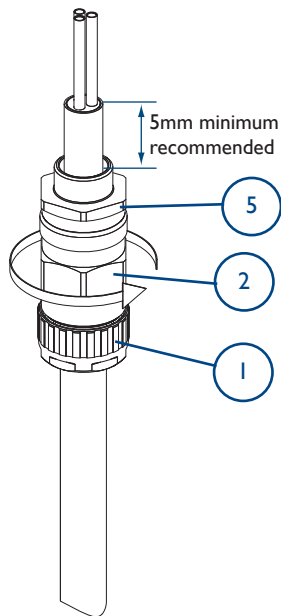
### Gland Preparation



**A**  
Strip cable to suit equipment as shown above and expose the armour / braid 'I'.  
 'I' = 20mm for cable gland sizes O<sub>s</sub> to C  
 'I' = 25mm for cable gland sizes C2 to F  
 'II' = to suit equipment.  
 If required, fit shroud

**B**  
Push the cable through the diaphragm seal / armour spigot ④. Pre-fitted cable guide ④.1 can now be discarded. The diaphragm seal can be rolled back to ease assembly if required. Spread armour / braid over the diaphragm seal / armour spigot ④ until the end of the armour / braid is up against the shoulder of the armour cone. Position the armour clamping ring ③.

**C**  
Place the entry ⑤ and position over the diaphragm seal / armour spigot ④. Move the sub-assembly ① and ② up to meet the entry ⑤.



**D**  
Hold the entry ⑤ in position with a spanner / wrench to prevent rotation. Hand tighten the middle nut ② to the entry ⑤ and turn a further 1/2 to 3/4 of a turn with a spanner / wrench.

**IMPORTANT:** Support the cable to prevent it from twisting. To ease wiring inside the enclosure, it may be beneficial to strip the inner sheath of the cable as shown above.

**E**  
Unscrew the middle nut ② and visually inspect that the armour / braid has been successfully clamped between the diaphragm seal / armour spigot ④ and the armour clamping ring ③. If armour / braid not clamped, repeat assembly.

**F**  
Reassemble middle nut ② onto the entry component ⑤. Tighten up the middle nut ② until hand tight, then using a wrench / spanner, turn the nut through 1/4 turn. Tighten the backnut ① to form a seal around the cable, then tighten a further full turn using a wrench / spanner. Ensure that the middle nut ② does not rotate when tightening the backnut ①.

**Note:** The deluge seal on this gland locates on assembly and requires no further action. Locate shroud over cable gland, if applicable.

**SCHEDULE OF LIMITATIONS:**

1. The cable glands when used with braided cable types are only suitable for use with fixed apparatus, the cable for which must be effectively clamped and cleated elsewhere.
2. This cable gland has an operating temperature range of -60°C to +80°C.
3. A seal must be formed between the equipment and the cable gland to maintain the appropriate degree of protection against ingress of dust, solid objects and water.

**ACCESSORIES:**

Before cable gland assembly or stripping of the cable gland assembly, consideration should be given to any cable gland accessories that may be required, such as: -

- Shroud, to offer additional corrosion protection.
- Locknut, to secure cable glands into position.
- Sealing washer, to offer additional ingress protection of the enclosure at the cable gland entry.
- Earhtag, to provide an external armour / braid bonding point.
- Serrated washer, to dampen any vibrations that may loosen the locknut or cable gland assembly.