

Assembly Instructions for cable gland:

153/X  9MX2

AI 341 / Issue M - 05/16

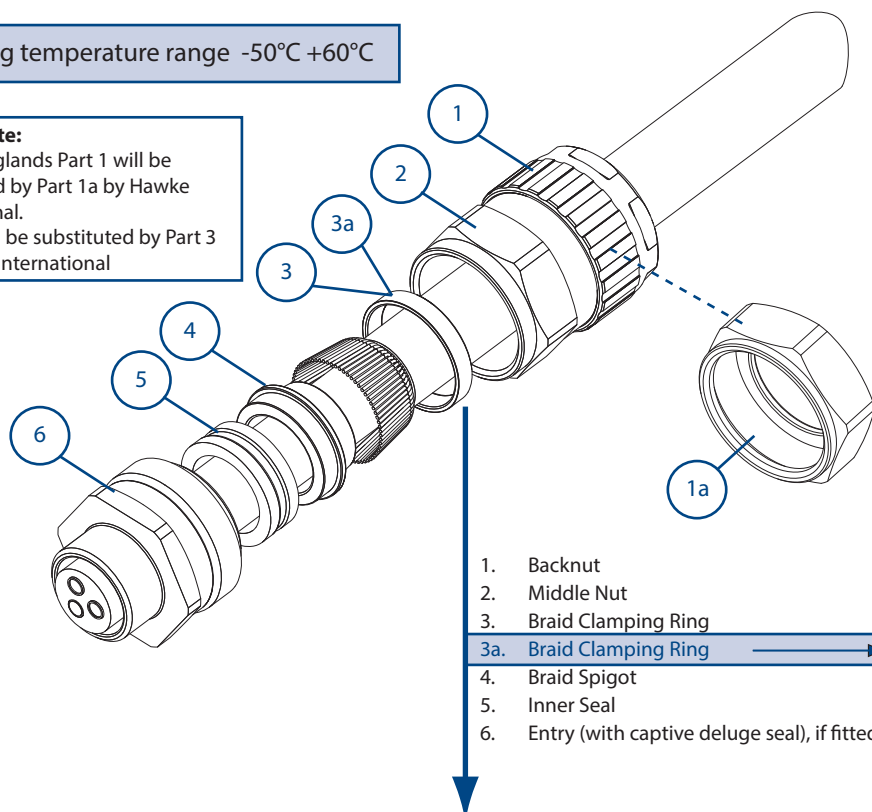
Operating temperature range -50°C +60°C

Certification Details

Listing No. E218332
WET LOCATIONS

Please Note:

For H size glands Part 1 will be substituted by Part 1a by Hawke International.
Part 3a will be substituted by Part 3 by Hawke International



1. Backnut
2. Middle Nut
3. Braid Clamping Ring
- 3a. Braid Clamping Ring
4. Braid Spigot
5. Inner Seal
6. Entry (with captive deluge seal), if fitted

Alternative Armour Clamping

Part 3: Clamping Ring for H size only.

IMPORTANT:
Fit facing towards the equipment.



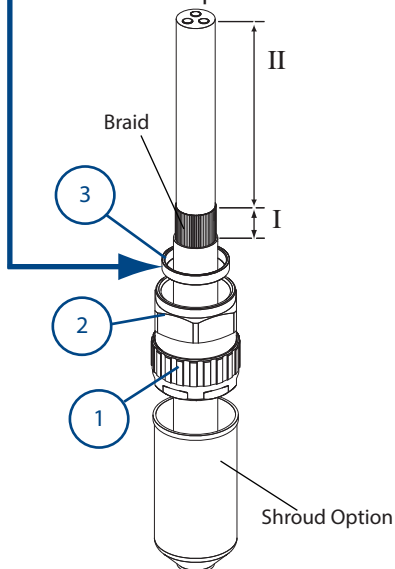
Part 3a: General identification ring orientation for sizes Os to F only:

IMPORTANT:
The arrowhead indicating the correct braid thickness i.e. 'X' type (braid) 0 to 0.7mm which covers 0.008" to 0.013" should point towards the equipment.

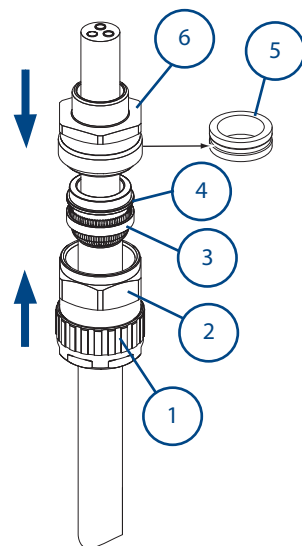
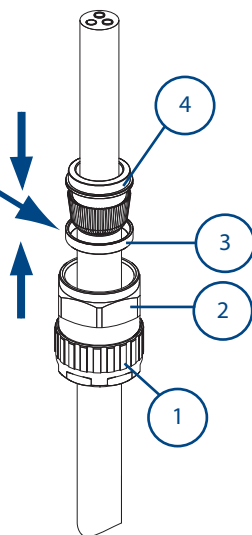


Note: Armour cable acceptance sizes are marked on the clamping ring.

Cable Preparation



Cable Gland Preparation



A

Strip Cable to suit equipment as shown above and expose the braid 'I'.

'I' = 13/16" (20mm) for cable gland sizes Os to C
'I' = 1" (25mm) for cable gland sizes C2 to F & H
'II' = to suit equipment.

If required, fit shroud.

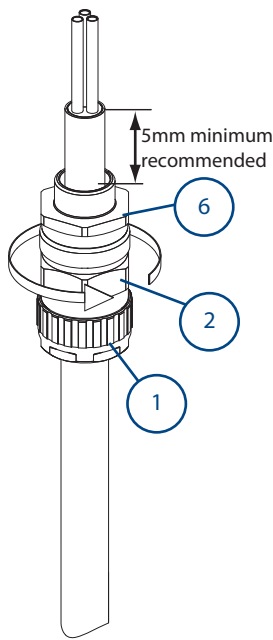
B

Push the cable through the spigot ④. Spread braid over the spigot ④ until the end of the braid is up against the shoulder of the braid cone. Position the clamping ring ③.

C

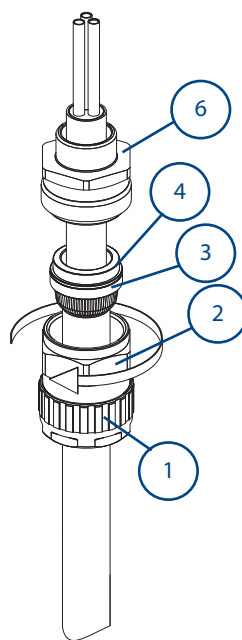
Remove the inner seal ⑤ from the entry ⑥. Place the entry ⑥ over the spigot ④. Move the sub-assembly ① and ② up to meet the entry ⑥.

Note: If the equipment has a threaded entry, it may be advisable to screw the entry component into the equipment to prevent twisting of the cable after step D.

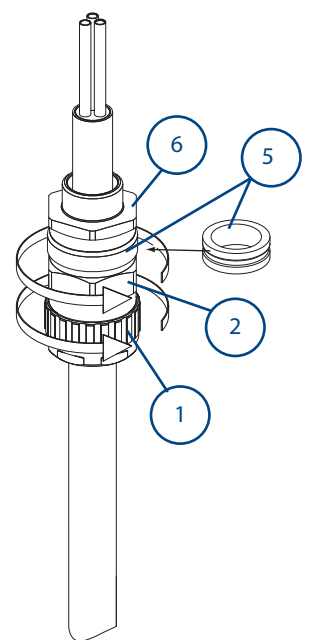


D Unless already screwed into the equipment hold the entry ⑥ in position with a spanner/wrench to prevent rotation. Hand tighten the middle nut ② to the entry ⑥ and turn a further ½ to ¾ of a turn with a spanner/wrench.

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 braid has been successfully clamped between the spigot ④ and the braid clamping ring ③. If braid not clamped, repeat assembly.



F Remove entry ⑥ and refit inner seal ⑤, replace entry ⑥ and re-assemble middle nut ② onto the entry component ⑥. Tighten up the middle nut ② using a wrench/spanner until resistance is felt between the seal and cable, then turn the middle nut through a further half to three quarters a full turn to complete the inner seal. 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. Ensure that the deluge seal is pulled down into position, if fitted. Locate the shroud over the cable gland, if applicable.

CABLE GLAND SELECTION TABLE													
Size Ref.	Entry Thread Size		Cable Acceptance Details								Overall Length (approx)	Hexagon Dimensions	
			Inner Sheath				Outer Sheath		Wire Braid 'X' (inches)	Wire Braid 'X' (mm)		Across Flats	Across Corners
	Standard Seal		Alternative Seal (S)		Min.	Max.							
	Min.	Max.	Min.	Max.									
Os	M20	½"	0.12"	0.31"	-	-	0.22"	0.47"	0.008"/0.013"	0 / 0.33	3.19"	0.94"	1.09"
O	M20	½"	0.30"	0.46"	-	-	0.37"	0.63"	0.008"/0.013"	0 / 0.33	3.19"	0.94"	1.09"
A	M20	½"	0.44"	0.56"	0.34"	0.52"	0.49"	0.81"	0.008"/0.013"	0 / 0.33	3.27"	1.18"	1.36"
B	M25	¾"	0.52"	0.79"	0.38"	0.60"	0.66"	1.02"	0.008"/0.013"	0 / 0.33	3.43"	1.42"	1.64"
C	M32	1"	0.75"	1.04"	0.61"	0.83"	0.87"	1.30"	0.008"/0.013"	0 / 0.33	3.62"	1.81"	2.09"
C2	M40	1¼"	0.99"	1.27"	0.87"	1.10"	1.10"	1.61"	0.008"/0.013"	0 / 0.33	3.90"	2.17"	2.50"
D	M50	2"	1.24"	1.74"	1.09"	1.37"	1.42"	2.07"	0.008"/0.013"	0 / 0.33	4.45"	2.56"	2.96"
E	M63	2½"	1.68"	2.21"	1.54"	1.83"	1.81"	2.57"	0.008"/0.013"	0 / 0.33	4.61"	3.15"	3.64"
F	M75	3"	2.15"	2.68"	1.91"	2.29"	2.24"	3.07"	0.008"/0.013"	0 / 0.33	4.72"	3.74"	4.31"
H	M90	3½"	2.64"	3.06"	-	-	2.96"	3.52"	0.008"/0.013"	0 / 0.33	4.48"	4.53"	5.23"

• Sizes Os and O are available with an M16 thread size.
If M16 entry is used on O size cable glands the maximum cable inner sheath diameter is limited to 0.43mm.

SCHEDULE OF LIMITATIONS:

- 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.
- This cable gland has an operating temperature range of -50°C to +60°C.
- A grounding / earth tag has been provided for use as a grounding point when the cable gland is used with plastic enclosures. This must be fitted to the wall of the enclosure using the threads of the gland and the locknut supplied.
Note: Grounding must be carried out in accordance with National Electrical Code Article 250 and 505.25. A correctly sized grounding conductor must be connected from the tag to the nearest internal connection point of the grounding circuit.

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.
 - Earthtag, to provide an external armour/braid bonding point.
 - Serrated washer, to dampen any vibrations that may loosen the locknut or cable gland assembly.