

# Cable Gland Assembly Instructions

## Drain Wire Preparation



The following instructions are approved methods of passing drain wires etc. through the compound barrier and should be followed if permitted by cable installation specifications.

### Method 1: Insulating drain wires with heat shrink or cold shrink tubing

- 1.1 Fold back the armour / braid and bend it to right angles from the inner sheath.
- 1.2 Remove foils and tape level with the outer sheath, exposing the drain wires and insulated conductors. Cut back a further 10mm of inner sheath.
- 1.3 Pass 100mm length of heat shrink or cold shrink tubing over the drain wire until it comes into contact with the foils, then shrink the tubing evenly down onto the drain wire so that no air pockets occur.
- 1.4 To insulate the joint between the foils and the tubing a suitable piece of either 10mm long shrink tubing, neoprene stretch tubing or a 10mm wide lap of PVC tape may be used.
- 1.5 After completing 1.1 to 1.4 on each drain wire, lay the armour / braid parallel to the cable, if applicable.

### Method 2: Insulating drain wires or screens with separate insulated crimped conductors or soldered connection

- 2.1 Fold back the armour / braid and bend to right angles from the inner sheath.
- 2.2 Remove a further 15mm of inner sheath (Fig. 1).
- 2.3 Unravel one or two groups of wires from the screen wires, then remove the remainder of the screen wires (Fig. 2).
- 2.4 Twist the group of screen wires into a pigtail and cut to 15mm long.
- 2.5 Crimp an insulated conductor to the pigtail with a suitable insulated butt ferrule (or soldered connection). Leave enough length of the insulated conductor so it can be connected to the earth terminal in the equipment. (Fig. 3). There must be a minimum of 10mm of compound on both ends of the joint.
- 2.6 To insulate the joint between the screen wires and the insulated conductor, place one lap of PVC insulating tape over the exposed metallic joint.
- 2.7 After completing 2.1 to 2.6 on each drain wire, lay the armour / braid parallel to the cable.

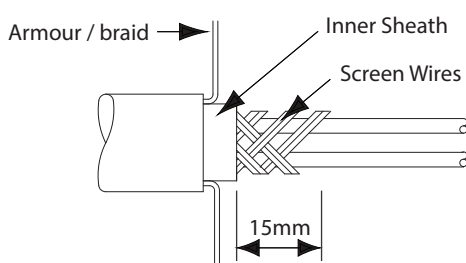


Fig. 1

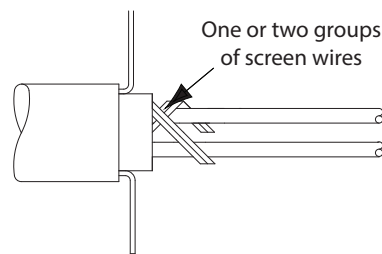


Fig. 2

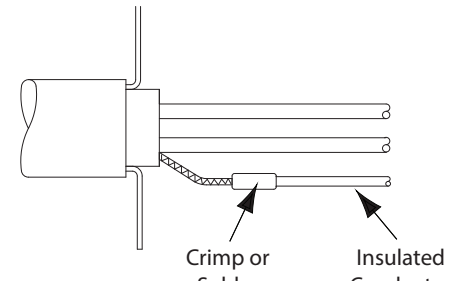


Fig. 3

### Method 3: Insulating drain wires with insulating varnish or paint

- 3.1 Fold back the armour / braid and bend it at right angles from the inner sheath.
- 3.2 Remove the foil and tape level with the inner sheath, exposing the drain wires and conductor pairs.
- 3.3 Cut back a further 10mm of inner sheath (Fig. 4).
- 3.4 Spray or paint the drain wires with insulating varnish or paint, then leave to dry (Fig. 5)
- 3.5 To insulate the foil ends a suitable piece of 10mm long shrink tubing or neoprene stretch tubing or a 10mm wide lap of PVC tape may be used (Fig. 6).
- 3.6 After completing 3.1 to 3.5 on each drain wire, lay the armour / braid parallel to the cable.

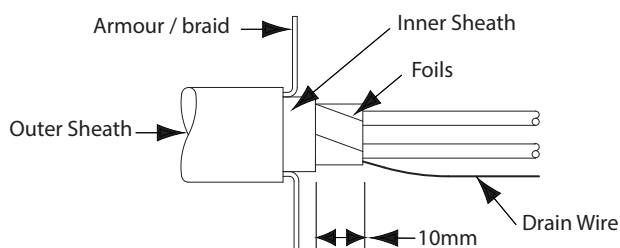


Fig. 4

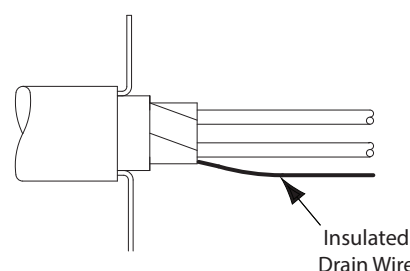


Fig. 5

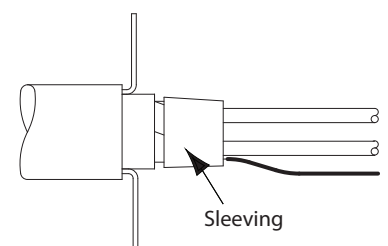


Fig. 6