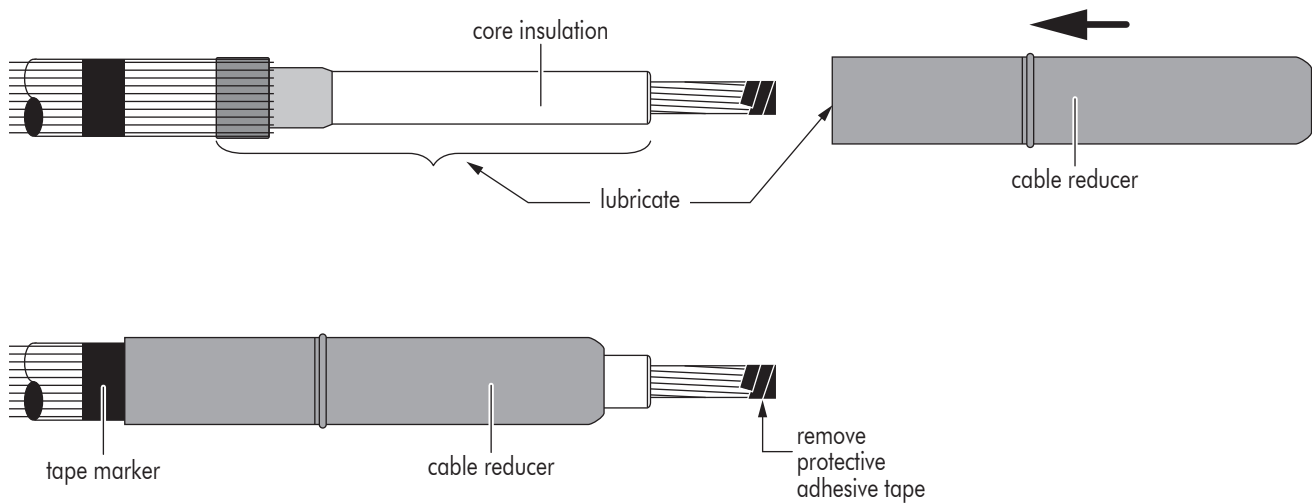


INSTALLATION OF THE CABLE REDUCER

For conductor sizes 16 up to 150 mm²



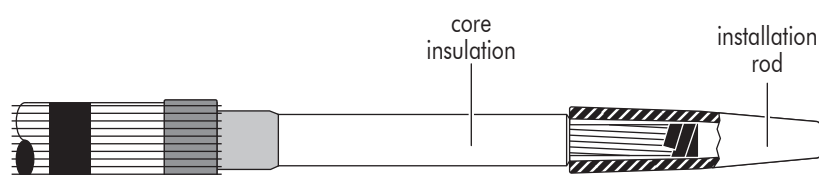
- 1** Lubricate* the indicated area: core insulation, semi-conductive screen, water sealing mastic and inner surface of the reducer.
- 2** Slide the reducer down the cable until flush with the tape marker.
- 3** Remove the protective adhesive tape from the conductor.



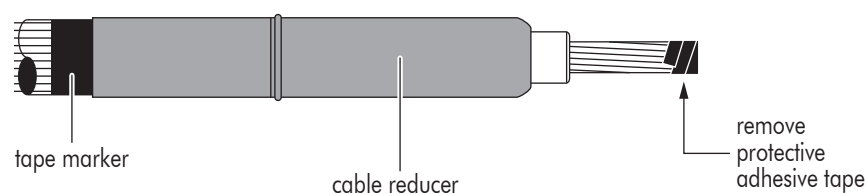
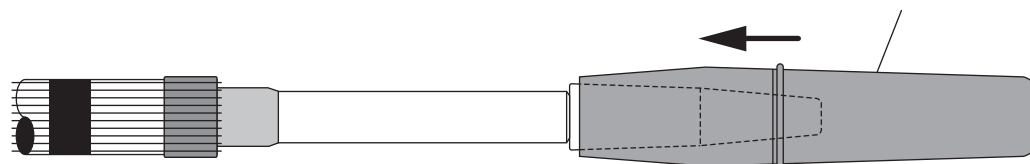
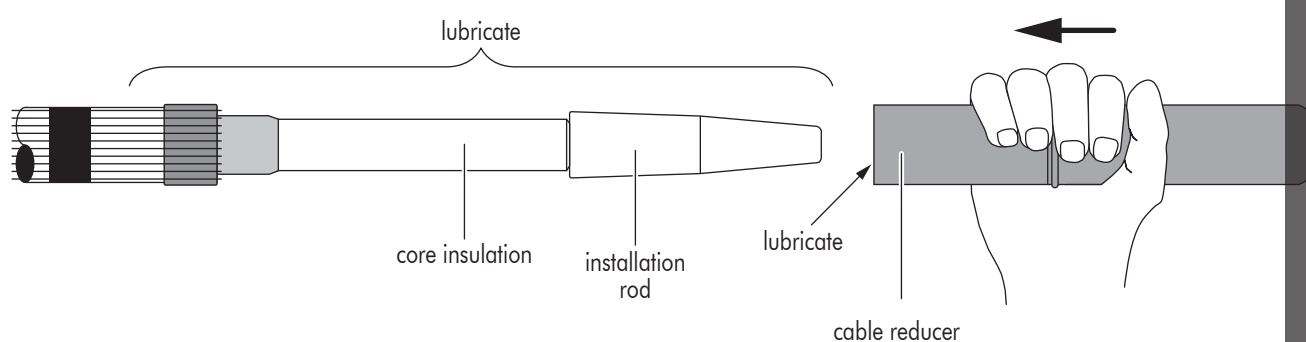
FOR INFORMATION ONLY Please always use the instructions supplied in the kit



For conductor sizes 185 mm² up to 300 mm²



- 1** Slide the installation rod on to the conductor until it butts against the core insulation.



- 2** Thoroughly clean installation rod and core insulation. Always wipe towards the screen wires.
- 3** Lubricate* the indicated area: installation rod, core insulation, semi-conductive screen, water sealing mastic and inner surface of the reducer.
- 4** Slide the reducer on to the installation rod.
- 5** Slide the reducer down the cable until flush with the tape marker. Take care to slide the reducer without hesitation and in one smooth move.
- 6** Remove installation rod and protective adhesive tape from the conductor.

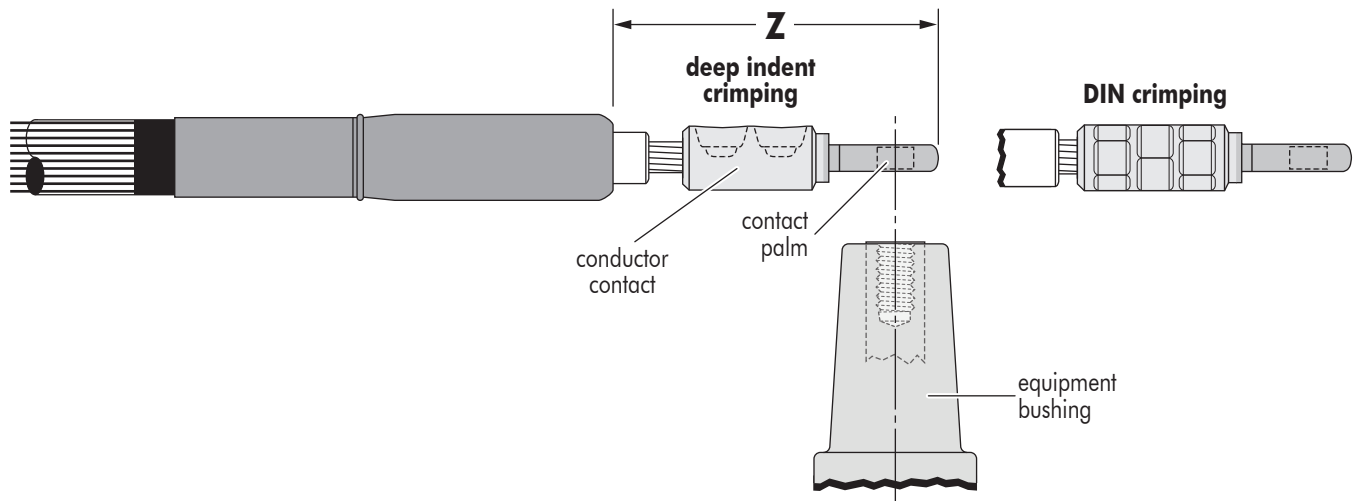
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CRIMPING/TIGHTENING OF THE CONTACT

A

Compression type contacts (Type TBC-X)

Please refer to the crimp chart supplied with the contact.



- 1 For aluminium conductors : before installing the conductor contact, wire brush the conductor.
- 2 Fit the contact on to the conductor.
- 3 Position the crimp contact taking care that the contact hole aligns with the bushing hole.
- 4 Prior to crimping distance « Z » must be between **145** and **160** mm.
- 5 Crimp the contact. Please refer to the crimp chart for crimp sequence.
- 6 After crimping distance « Z » must be between **145** and **165** mm.
If necessary, adjust the position of the cable reducer until distance « Z » is within the tolerance range.
- 7 **Remove any burrs left after crimping and wipe-off excess inhibitor.**



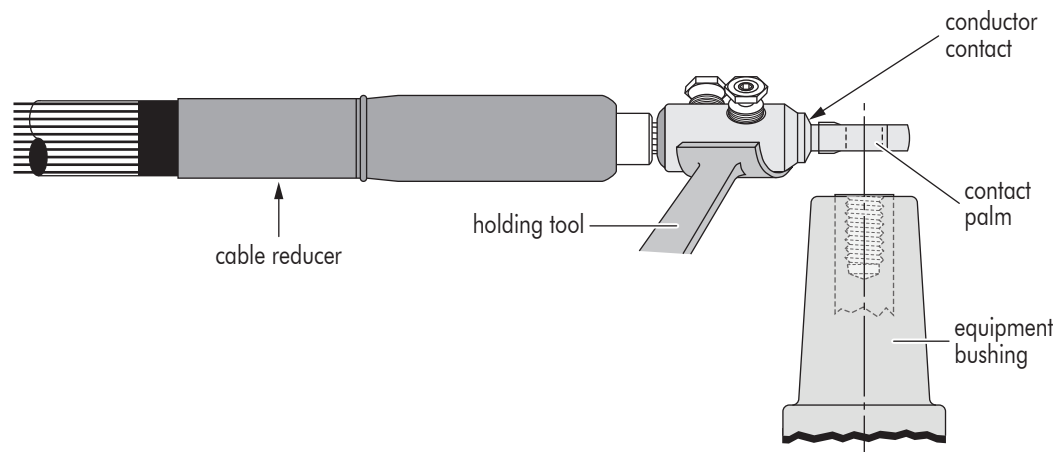
FOR INFORMATION ONLY Please always use the instructions supplied in the kit



B

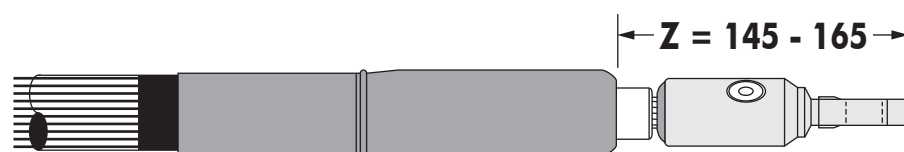
Mechanical type contacts (Type TMBC-X)

Before tightening



- 1 For aluminium conductors : before installing the conductor contact, wire brush the conductor.
- 2 Insert, if necessary, the centre ring into the contact barrel according to the table in the contact installation instruction.
- 3 Position the contact so that the contact hole aligns with the bushing hole.
- 4 Tighten the contact. Please refer to the installation instruction included with the contact. It is recommended to use a holding tool for ease of installation.

After tightening



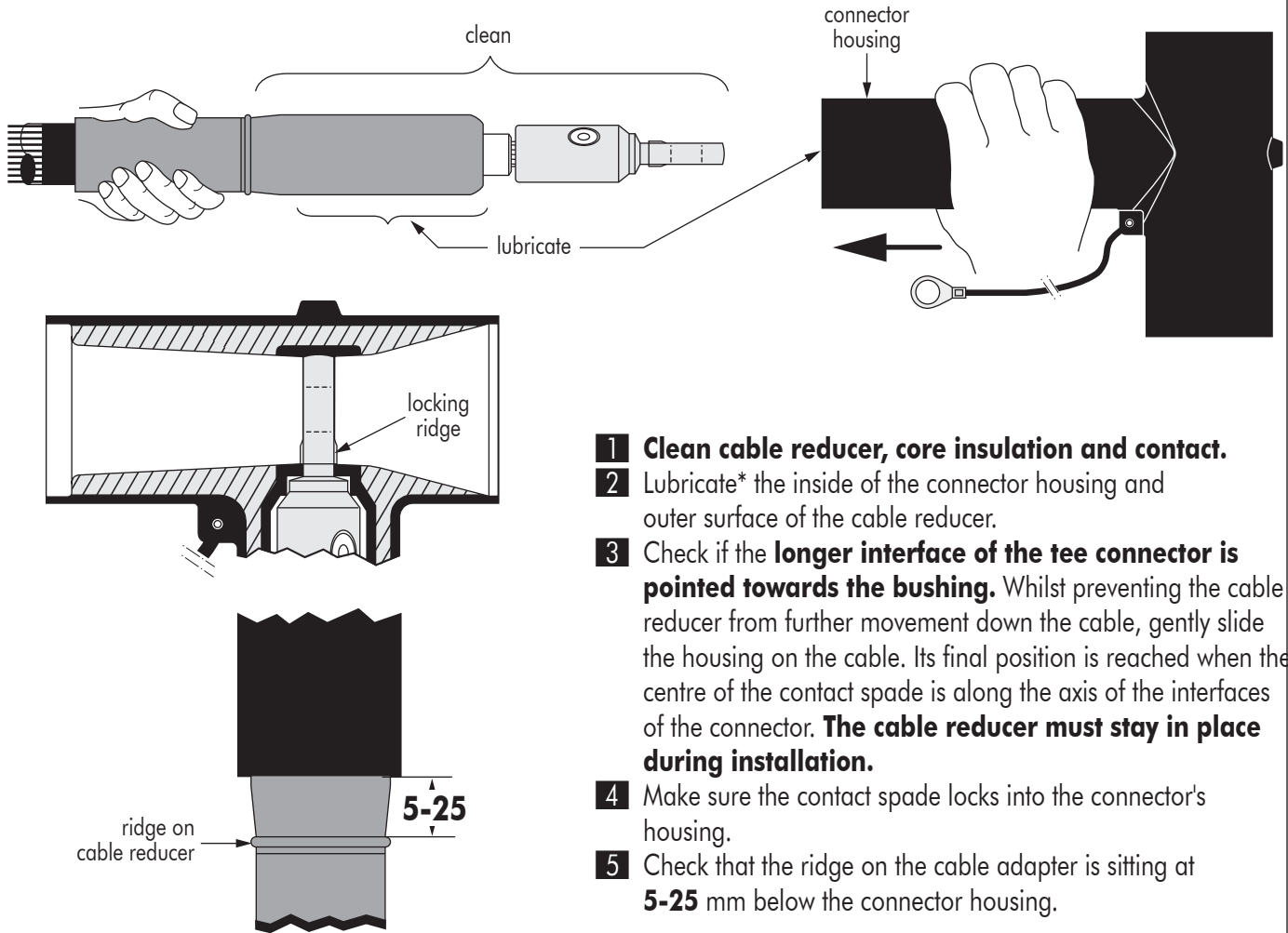
- 5 After tightening, distance « **Z** » must be between **145** and **165** mm. If necessary, adjust the position of the cable reducer until distance « **Z** » is within the tolerance range.



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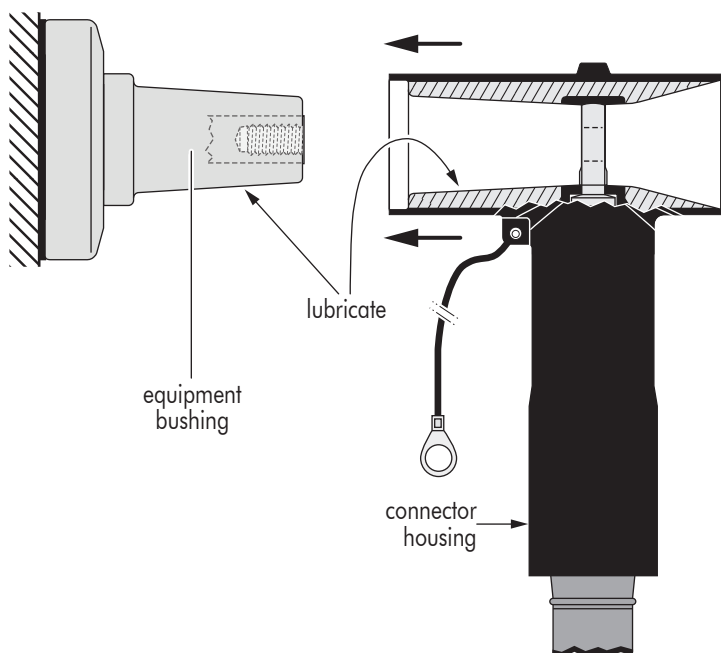


CONNECTOR INSTALLATION ON CABLE



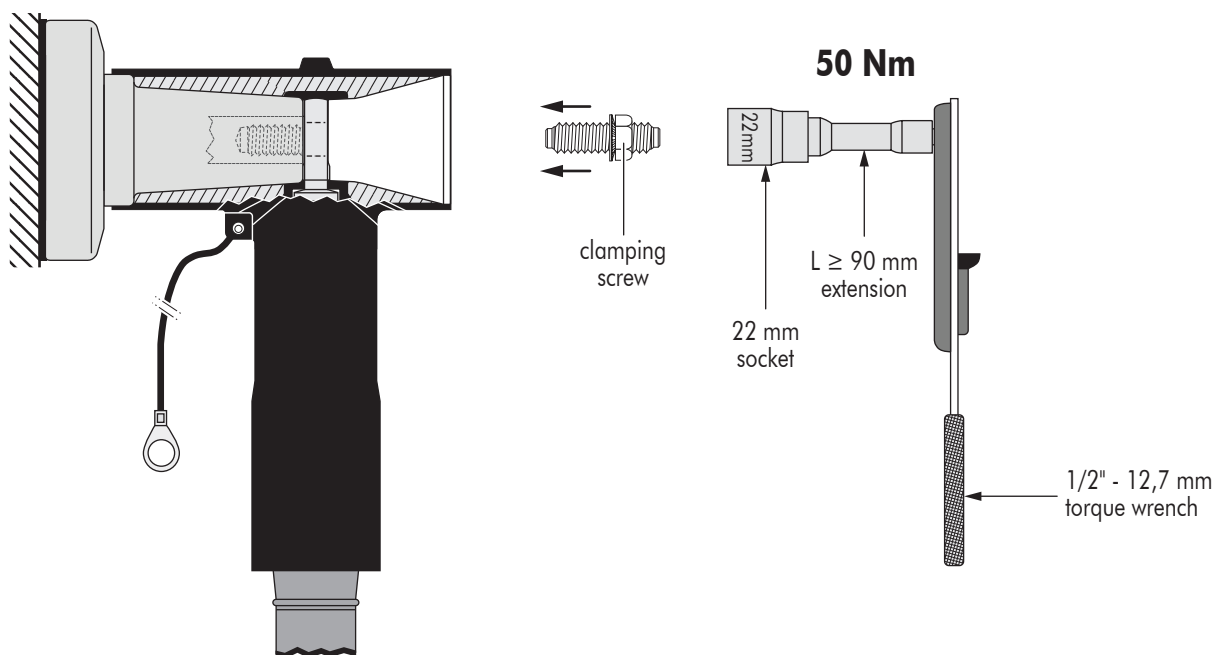
- 1 Clean cable reducer, core insulation and contact.
- 2 Lubricate* the inside of the connector housing and outer surface of the cable reducer.
- 3 Check if the **longer interface of the tee connector is pointed towards the bushing**. Whilst preventing the cable reducer from further movement down the cable, gently slide the housing on the cable. Its final position is reached when the centre of the contact spade is along the axis of the interfaces of the connector. **The cable reducer must stay in place during installation.**
- 4 Make sure the contact spade locks into the connector's housing.
- 5 Check that the ridge on the cable adapter is sitting at **5-25** mm below the connector housing.

CONNECTOR INSTALLATION ON BUSHING

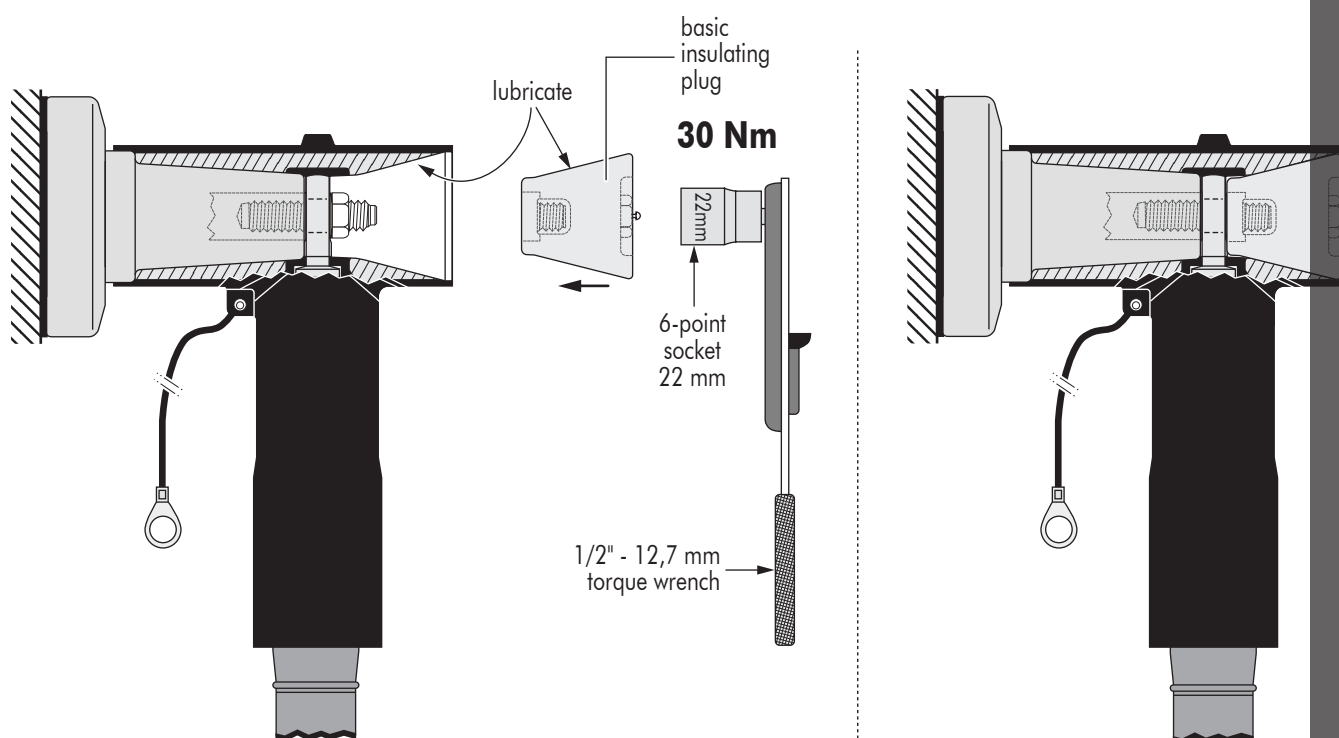


- 1 Clean and lightly lubricate* both connector and bushing interface.
- 2 Push the connector on to the bushing.

* USE ONLY THE SILICONE LUBRICANT SUPPLIED



- 3** Insert clamping screw into the threaded hole of the bushing **by hand**.
- 4** Use a torque wrench with a 22 mm socket and tighten exerting **50 Nm** (5 kgm or 36,9 foot-pounds) of torque. **In order to achieve the correct applied torque ensure that there is no lubricant on the threaded parts.**



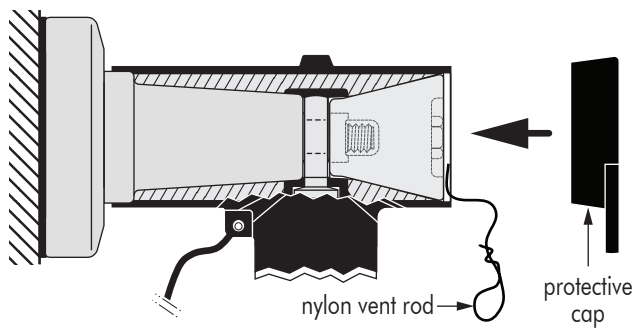
- 5** Clean and lubricate* the insulating plug for the opposite side of the connector.
- 6** Insert the plug in the connector and tighten assembly: use a torque wrench with a 6-point socket of 22 mm and tighten exerting **30 Nm** (3 kgm or 22,1 foot-pounds) of torque. **In order to achieve the correct applied torque ensure that there is no lubricant on the threaded parts.**



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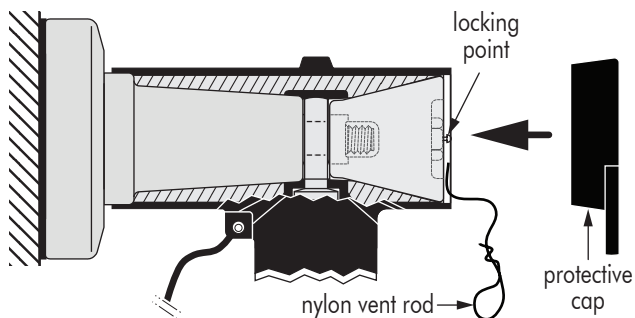


INSTALLATION OF THE CAP



Installation on insulating plug BIPR without voltage detection point :

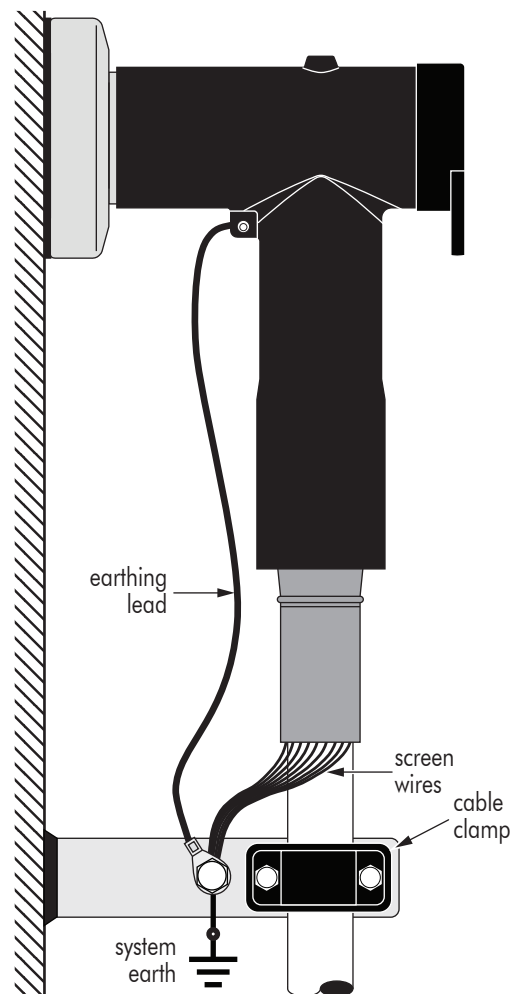
- Clean the inside of the cap and the outside surface of the connector and insulating plug.
- Place the nylon vent rod along the insulating plug (see fig.) to exhaust the air during assembly of the cap.
- Push the cap **firmly** over the connector and onto the insulating plug.
- Press the cap on all sides to make sure it is well positioned over the connector. Position the cap with the pulling tab pointing downwards.
- Remove the nylon vent rod.



Installation on insulating plug BIPA with voltage detection point :

- Clean the inside of the cap and the outside surface of the connector and insulating plug.
- Place the nylon vent rod along the insulating plug (see fig.) to exhaust the air during assembly of the cap.
- Push the cap **firmly** over the connector and onto the insulating plug.
- **Press the centre of the cap onto the locking point until it snaps into place.** Press the cap on all sides to make sure it is well positioned over the connector. Position the cap with the pulling tab pointing downwards.
- Remove the nylon vent rod.

CONNECTOR EARTHING AND CABLE CLAMPING



- 1 Bend back the screen wires along the outer sheath to form a pig tail.
- 2 Connect the earthing lead and screen wires to the system earth.

NOTE :

A connector/bushing mated combination should not be allowed to carry the full weight of the cable.

Therefore clamp the cable as close as possible to the connector.

IMPORTANT NOTES :

- **Never disconnect the connector from energised equipment nor energise a disconnected connector without previously installing on its appropriate corresponding mating part.**
- **Do not allow hydrocarbon oils or solvents to contaminate the E.P.D.M. rubber. In the event of contamination, wipe the surface clean with a dry cloth.**