

CAUTION:

Read instructions thoroughly and completely prior to beginning installation.

Installation instructions for slip-on outdoor termination



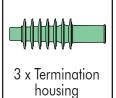
AFN 36

18/30 kV : conductor sizes 120 up to 1000 mm², aluminium or copper 20,8/36 kV : conductor sizes 70 up to 1000 mm², aluminium or copper

For copper wire screened cable with:

- extruded easy strip semi-conductive screen
- bonded extruded semi-conductive screen

Contents:



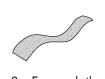
3 x Cylindrical silicone sleeve and / or Preformed silicone cap



3 x Earthing collar



1 x Roll adhesive tape



3 x Emery cloth



2 x 2 Stress control mastic strips, type MFC (Hi-K)



9 x Silicone grease + wipers





6 x Sealing mastic strip



Optionally supplied:



3 x Conductoi cable lug



3 x Earthing cable lug

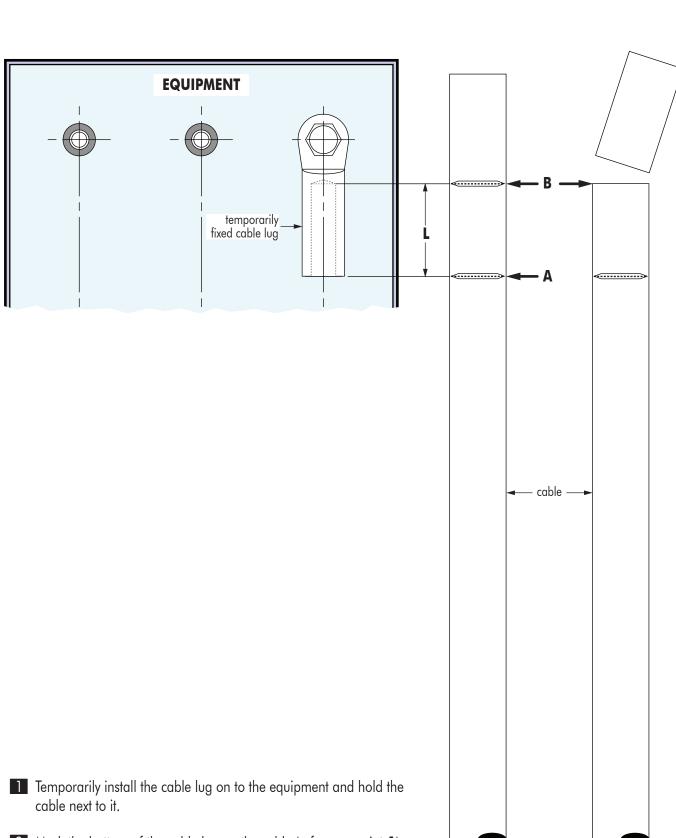
Termination size	Cable core insulation diameters (mm)	
	min.	max.
AFN 36-3	28,0	32,0
AFN 36-4	31,5	41,0
AFN 36-5	39,0	50,0
AFN 36-6	46,0	58,0



This product should be installed only by competent personnel trained in good safety practices involving high voltage electrical equipment. These instructions are not intended as a substitute for adequate training or experience in such safety practices. These instructions do not attempt to provide for every possible contingency.

Failure to follow these instructions could result in damage to the product and serious or fatal injury.

IMPORTANT: Cable and associated apparatus must be de-energised, locked out, and tagged prior to product installation.



- 2 Mark the bottom of the cable lug on the cable (reference point **A**).
- Measure the depth of the cable lug bore (length **L**) and mark this distance above the reference point **A** on the cable (reference point **B**).
- 4 Cut the cable at the reference point **B**.

CABLE PREPARATION

Termination size	Cable core insulation diameter (mm)	X (mm)
AFN 36-3	28,0 - 32,0	280
AFN 36-4	31,5 - 35,0	285
	35,0 - 41,0	280
AFN 36-5	39,0 - 45,0	280
	45,0 - 50,0	270
AFN 36-6	46,0 - 51,0	280
	51,0 - 58,0	270

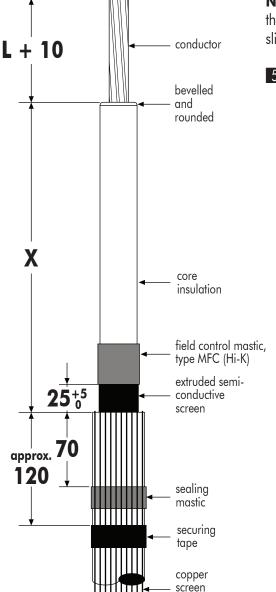
- Remove the outer cable sheath for a distance **X + L + 10** mm from the cable end (**L** = depth of cable lug bore, **X** = see table). **Do not cut or nick the copper wire screen.**
- Apply **70** mm below the outer cable sheath, one layer of sealing mastic around outer cable sheath.

 Bend all the copper screen wires downwards, around the outer sheath, pressing them equally spaced into the mastic.

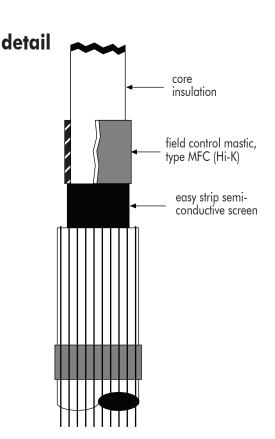
 Using adhesive tape, secure the screen wires approx. **120** mm below the edge of the outer sheath.
- Remove the semi-conductive screen up to **25**⁵ mm above the cut edge of the outer sheath.
- Bare the conductor for a distance **L** + **10** mm and bevel the edge of the core insulation.

NOTE: To ensure the termination slips on easily, the edge of the core insulation should be rounded and the insulation surface slightly roughened using the supplied emery cloth.

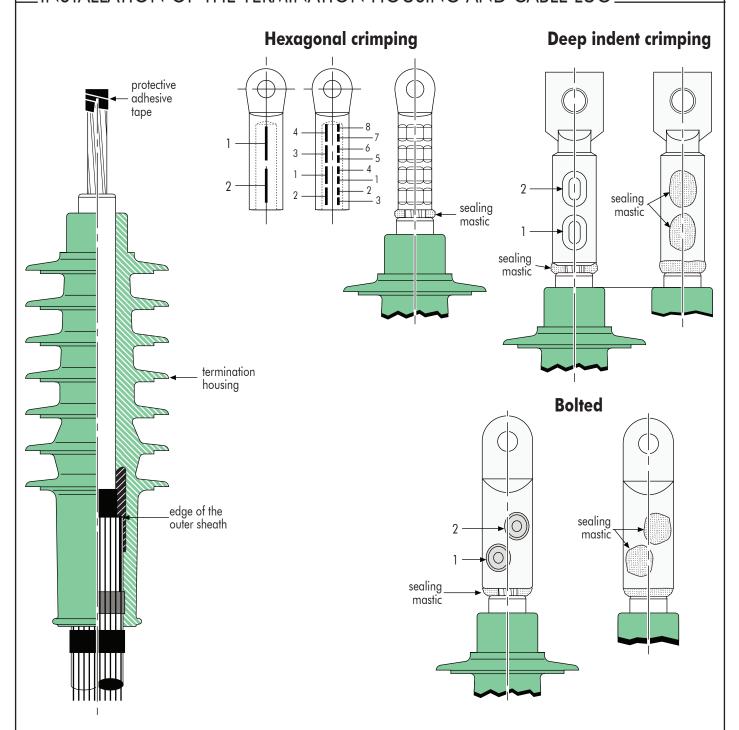
Apply one layer of field control mastic, type MFC (Hi-K), on the core insulation, flush with the extruded semi-conductive screen. Stretch the mastic proportionally during the installation without breaking it and squeeze it tightly in place using the coated side of the paper.



wires

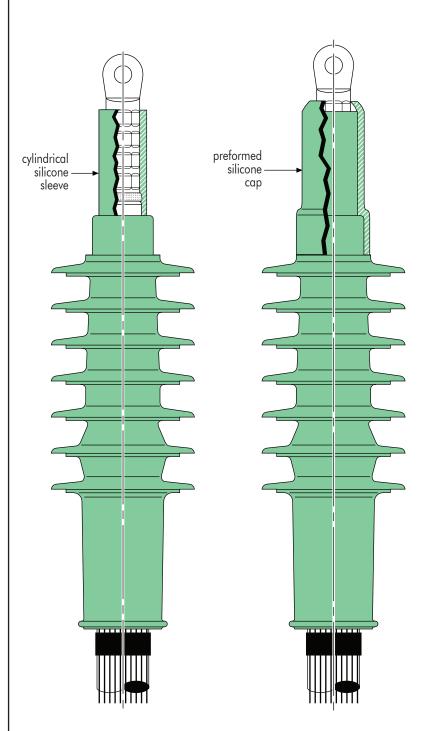


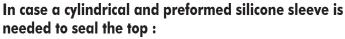
.INSTALLATION OF THE TERMINATION HOUSING AND CABLE LUG $_$



- Remove burrs from the conductor and as a protection, wrap a few turns of adhesive tape around the conductor end.
- 2 Remove any traces of conductive residue from the core insulation.
- 3 Lubricate* core insulation and inner part of the termination.
- Push, without twisting, the termination on the cable until the internal step in the bottom part of the termination butts against the cable outer sheath. Remove excessive lubricant and remove protective tape from the conductor.
- 5 Crimp or tighten the cable lug as per drawings. Note the crimp sequence or tightening sequence.
- 6 Remove any burrs after crimping and wipe-off excess inhibitor.
- 7 Using sealing mastic, fill the gap between core insulation and cable lug. For deep indent crimping, fill the holes of the indents with sealing mastic. For bolted cable lugs, cover the screws with sealing mastic.

INSTALLATION OF THE SILICONE SLEEVE(S) $_$



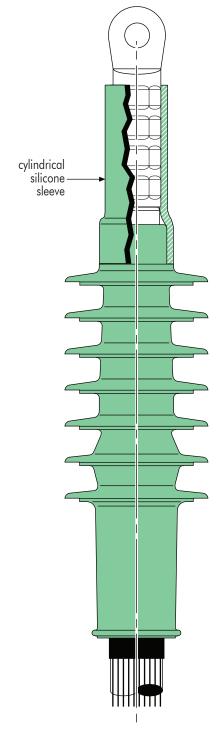


Check length of cylindrical silicone sleeve with length of lug barrel. If necessary, cut the sleeve to the same dimension of the lug barrel.

Lubricate* inside surface of the cylindrical silicone sleeve. Slide the sleeve over the cable lug until it butts against the top part of the termination.

Lubricate* inside surface of the preformed silicone cap. Slide the cap over the cylindrical sleeve until it overlaps the top part of the termination.

Ensure the upper part of the termination is completely covered.

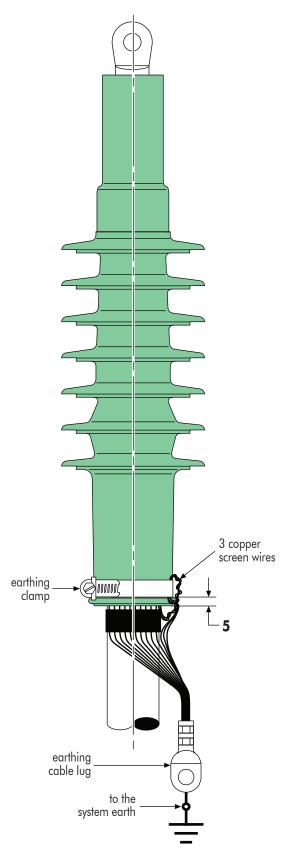


In case only a cylindrical silicone sleeve is needed to seal the top:

Lubricate* inside surface of the cylindrical silicone sleeve. Slide the sleeve over the cable lug until it overlaps the top part of the termination.

Ensure the upper part of the termination is completely covered.

CABLE SCREEN EARTHING_



- Install the hose clamp **5** mm above termination base. Press three wires of the copper screen under the hose clamp (Hand tighten hose clamp, it has no water sealing function but is only used to drain the surface currents). Pull these three and the other screen wires to one side of the termination and twist them together to form a pigtail and fit in the earthing cable lug (if supplied). Crimp the cable lug.
- 2 Connect screen wires to the system earth.



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