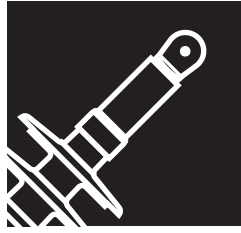


CAUTION:

Read instructions thoroughly and completely prior to beginning installation.

Installation instructions for slip-on outdoor termination



AFN 20

U max. 24 kV

For copper wire screened cable with :

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

Contents :

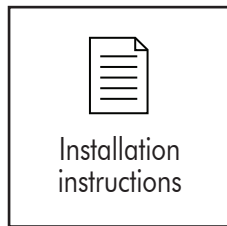
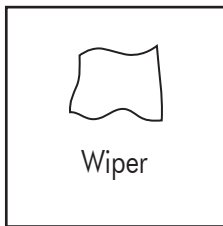
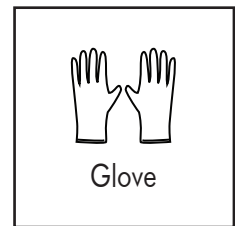
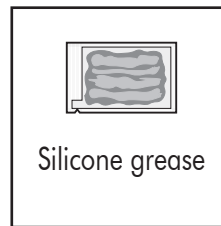
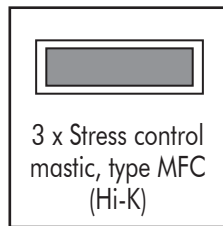
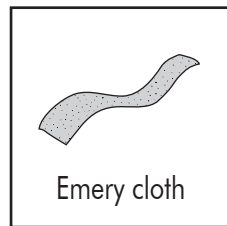
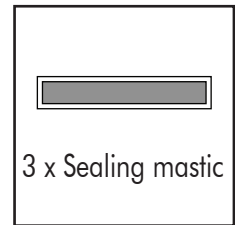
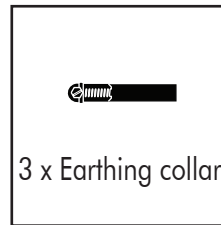
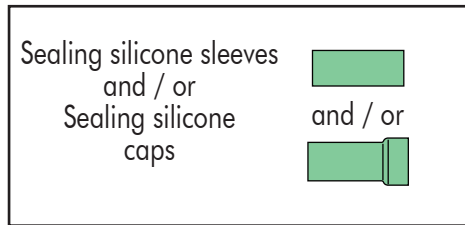
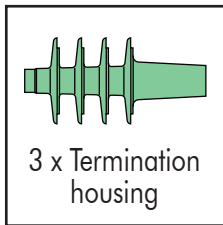
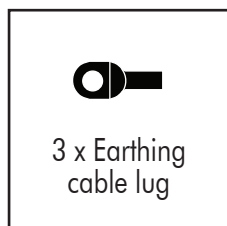
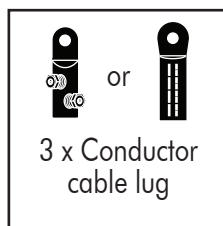


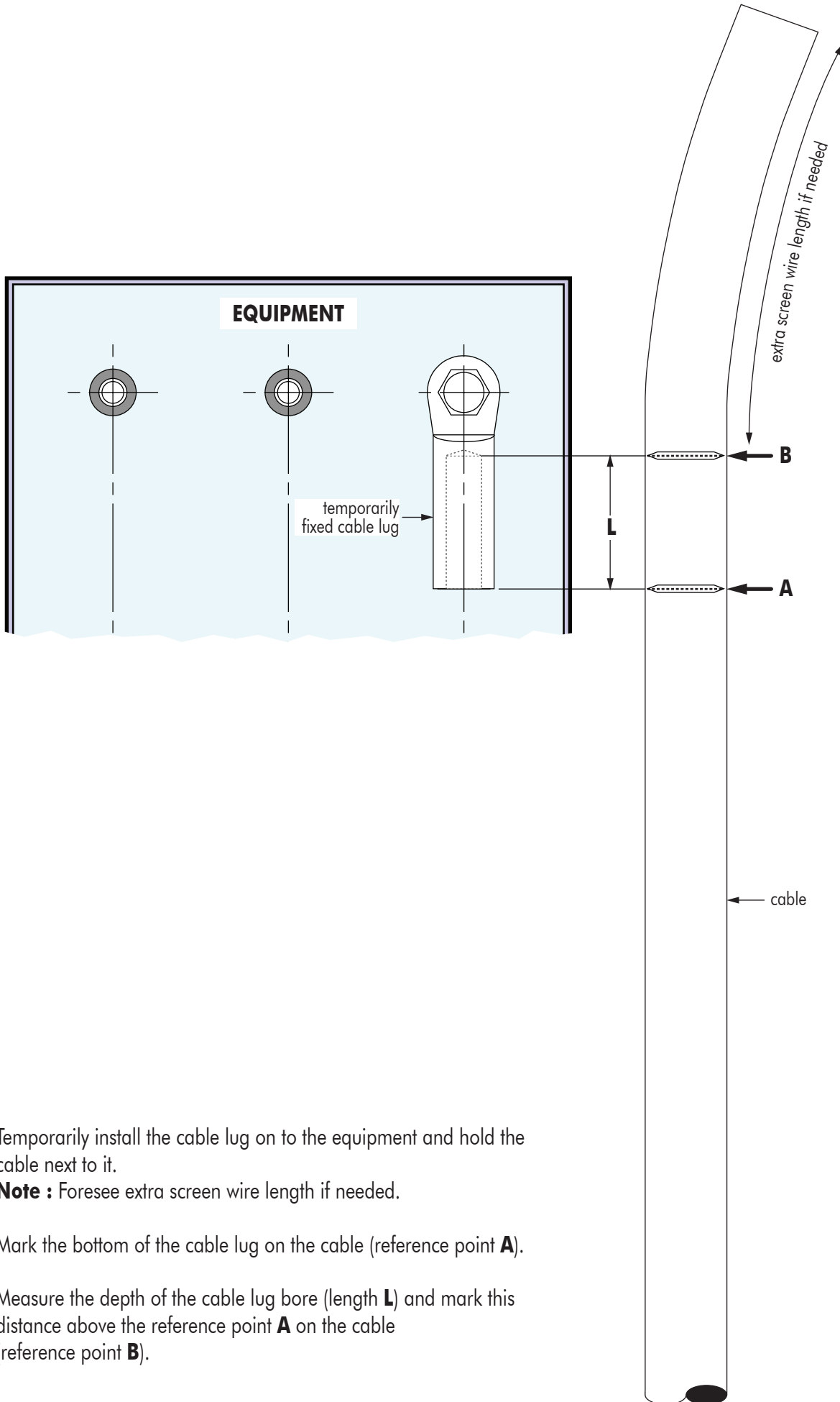
Table 1

Termination size	Conductor cross section (mm ²) [for information only]	Cable core insulation diameter (mm)	
		min.	max.
1	35 - 70	18	23,5
2	95 - 240	22,5	33
3	300 - 500	31	41
4	400 - 630	34	46

Optionally supplied :



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- 1 Temporarily install the cable lug on to the equipment and hold the cable next to it.
Note : Foresee extra screen wire length if needed.
- 2 Mark the bottom of the cable lug on the cable (reference point **A**).
- 3 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**).



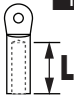
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CABLE PREPARATION

Table 2

Termination size	Cable core insulation diameter (mm)	X (mm)
1	18 - 20,5	165
	20,5 - 23,5	160
2	22,5 - 26	165
	26 - 29,5	160
	29,5 - 33	155
3	31 - 36	165
	36 - 41	160
4	34 - 40	165
	40 - 46	160

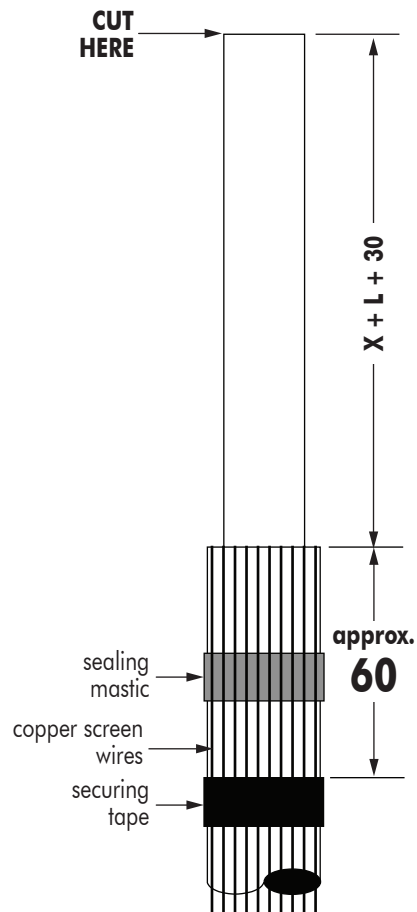
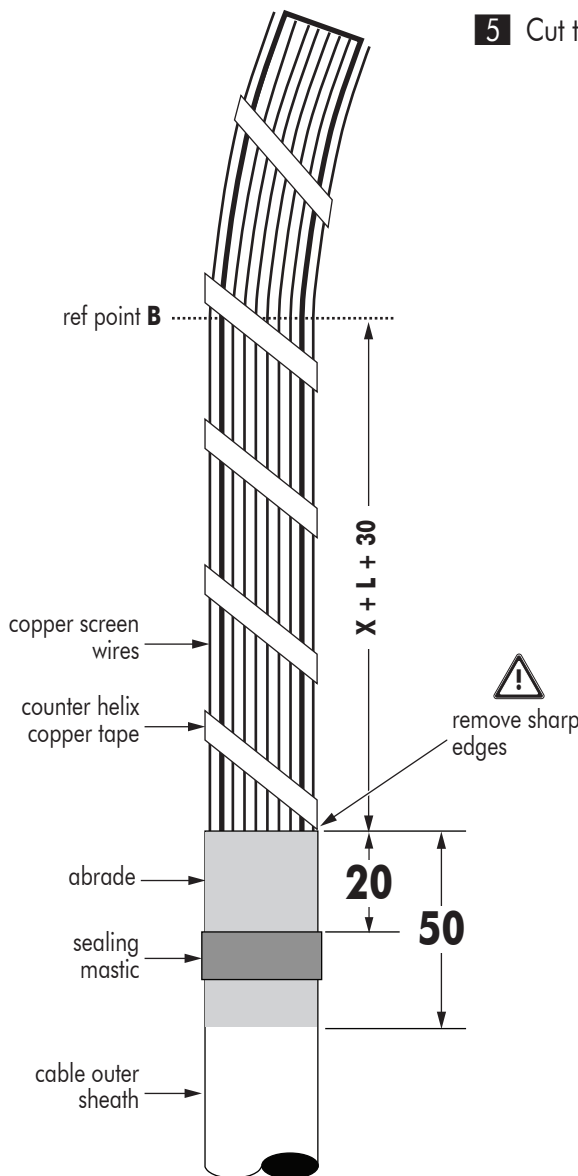
 **1** Remove the outer cable sheath for a distance $X + L + 30$ mm from the reference point **B**.
L = depth of the cable lug bore
X = see table 2

 **2** Remove the counter helix copper tape(s). Make sure to remove all sharp edges.

3 Abrade the outer sheath over a distance of **50** mm.

4 **20** mm below the outer cable sheath apply 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. **60** mm below the edge of the outer sheath.

5 Cut the cable to a point $X + L + 30$ mm from the outer sheath.



6 Remove the semi-conductive screen up to **25 - 30** mm above the cut edge of the outer sheath.

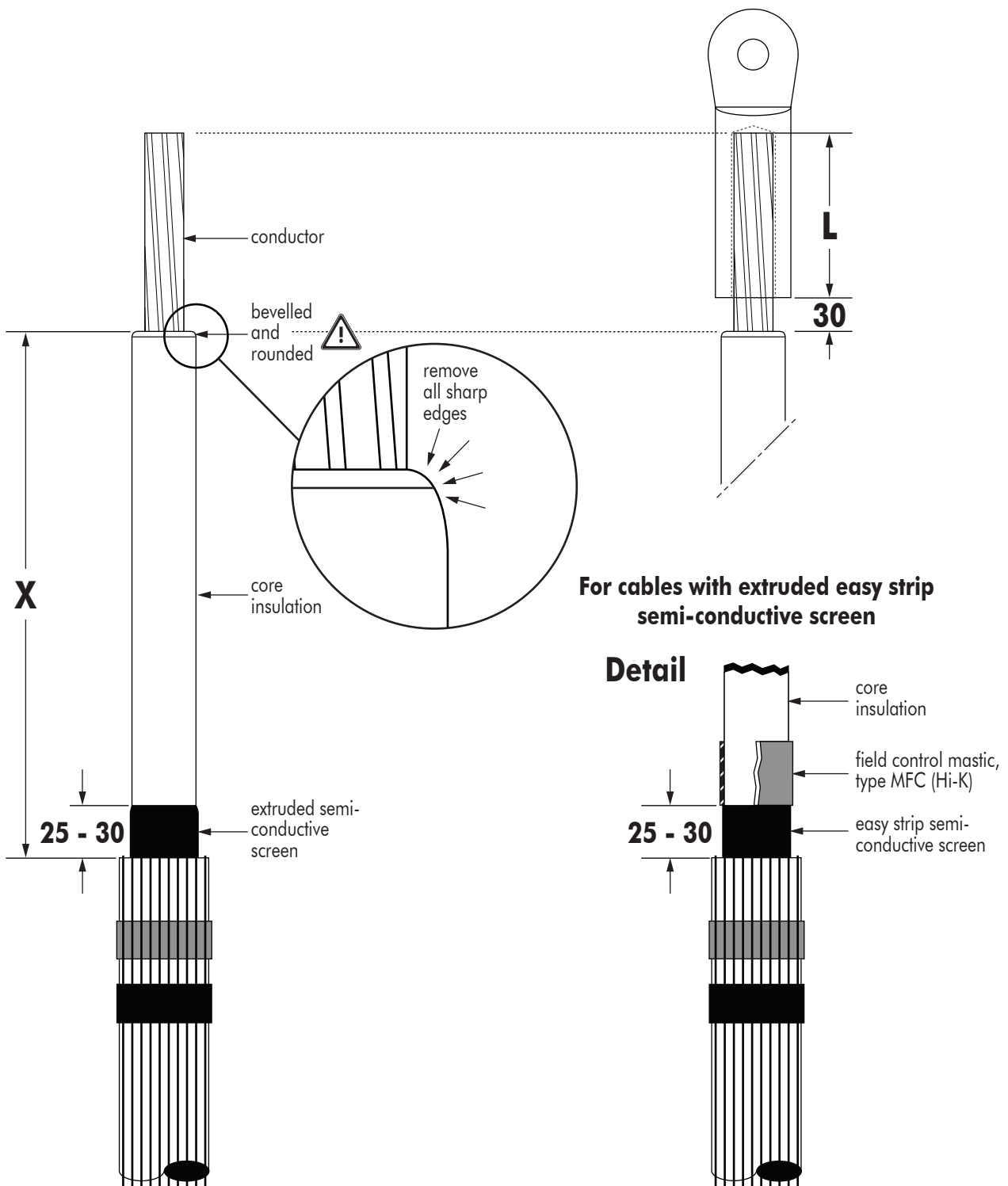
! Check if the cable insulation diameter is in accordance with the termination range. See table 2.

7 Bare the conductor for a distance **L + 30** mm.

! **IMPORTANT :** To ensure the termination slips on easily, the edge of the core insulation should be bevelled and slightly roughened using the supplied emery cloth.

For cables with extruded easy strip semi-conductive screen (see detail) :

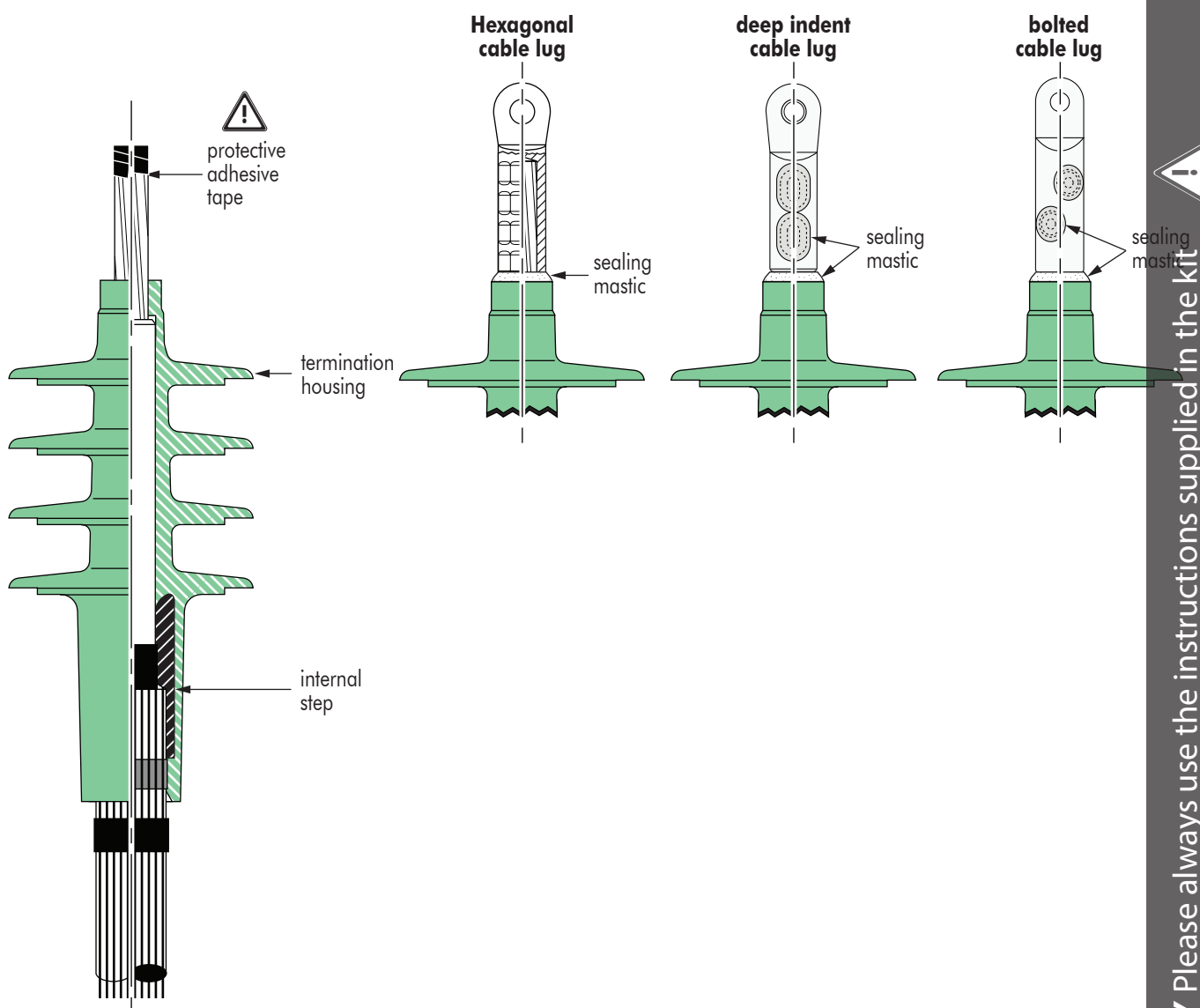
- Apply one layer of field control mastic, type MFC (Hi-K), on the core insulation, flush with the extruded semi-conductive screen.
- Squeeze it tightly in place using the coated side of the paper.



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INSTALLATION OF THE TERMINATION HOUSING AND CABLE LUG

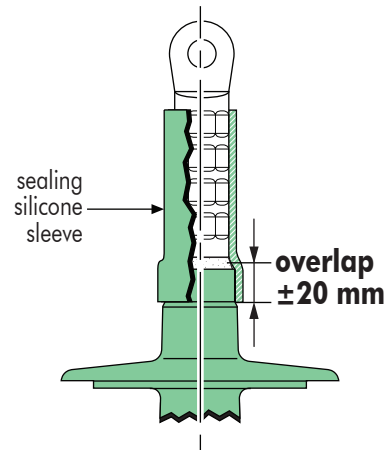
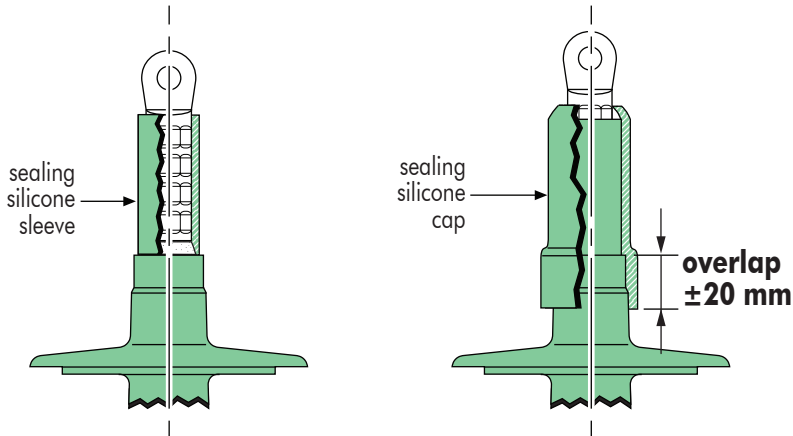


- 1** Remove burrs from the conductor and as a protection, wrap a few turns of adhesive tape around the conductor end.
- 2** Remove any traces of conductive residue from the core insulation.
- 3** Lubricate core insulation and the inner surface of the termination (**use only the silicone lubricant supplied**).
- 4** Push the termination on the cable, until the internal step in the bottom part of the termination butts against the cable outer sheath. Remove protective tape from the conductor.
- 5** - Crimp contacts : crimp according specification.
- Bolted contacts : tighten the screws, refer to the installation instruction included with the contact.
- 6** Remove any burrs after crimping/tightening and wipe off excess inhibitor.
- 7** Using sealing mastic, fill the gap between the top of the termination 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.

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SEALING OF THE TERMINATION

- 1 Select a combination of sealing sleeve(s) and/or sealing cap to waterseal the top of the termination.
- 2 - Crimp contacts : at least half of the contact barrel must be covered.
- Bolted contacts : the **whole** contact barrel (screws) must be covered.



Case : combination of two elements

- Use a first sleeve to build up the contact diameter, **this sleeve must tight-fit on the contact barrel.**
- Cut the sleeve to the same length as the lug barrel.
- Lubricate* inside surface of the sealing sleeve. Slide the sleeve over the cable lug until it butts against the top part of the termination.
- Lubricate* inside surface of the sealing cap (or the second sealing sleeve).
- Slide the sealing cap (or the second sealing sleeve) over the first sleeve until it overlaps the top part of the termination (± 20 mm).

Case : one element

- Lubricate* the inside surface of the sealing sleeve or sealing cap.
- Slide the sleeve or sealing cap over the cable lug until it overlaps both the top part of the termination (± 20 mm), and the contact barrel.

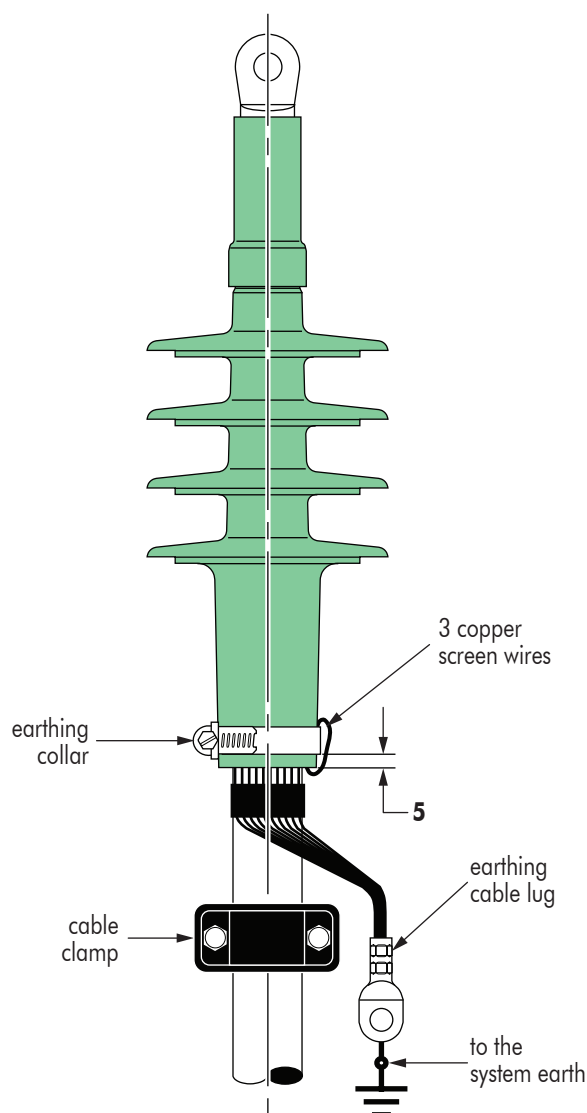


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CABLE SCREEN EARTHING



- 1** Install the earthing collar **5** mm above termination base. Press three wires of the copper screen under the earthing collar (Hand tighten earthing collar, 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. Crimp the cable lug.
- 2** Connect screen wires to the system earth.
- 3** Clamp the cable as close as possible to the termination.



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