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**DERRICK**  
INTERNATIONAL

Thorne & Derrick  
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## MONOi/MONOe-1

INDOOR/OUTDOOR SINGLE CORE  
HEAT SHRINKABLE TERMINATION

INSTALLATION INSTRUCTION IM1778DI.1

TYPE OF CABLE: Solid insulation (XLPE-HEPR)

SECTION: Up to 1600 mm<sup>2</sup> Cu/Al

TYPE OF SCREEN: Copper wires

VOLTAGE: U<sub>max</sub> 12 kV



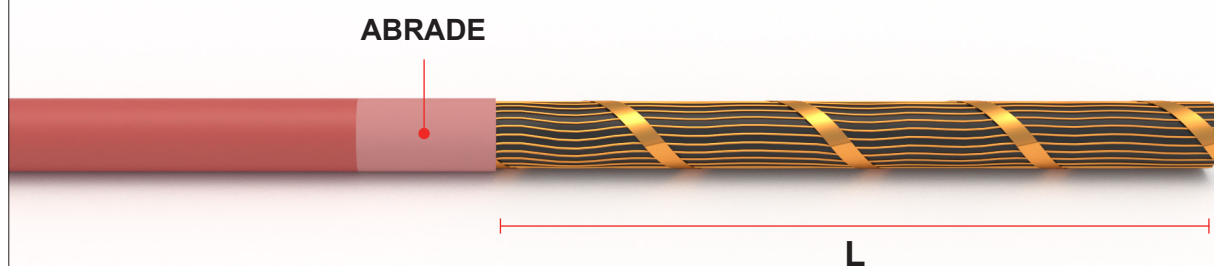
# 1\_ASSEMBLY OF THE TERMINATION

## 1.1

Prepare the cable and cut the exceeding length.

## 1.2

Remove the outer sheath for the length “L” (“L” see the table).  
Abrade the outer sheath for 100 mm and clean with solvent.

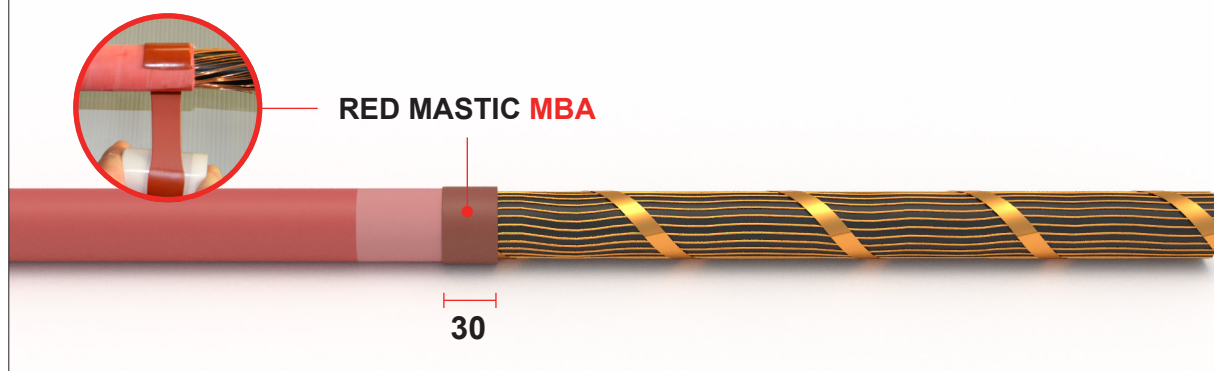


TYPE	INDOOR						
SECTION	(95 mm <sup>2</sup> )	(240 mm <sup>2</sup> )	(400 mm <sup>2</sup> )	(630 mm <sup>2</sup> )	(1000 mm <sup>2</sup> )	(1200 mm <sup>2</sup> )	(1600 mm <sup>2</sup> )
L (mm)	240	240	270	290	290	310	340

TYPE	OUTDOOR						
SECTION	(95 mm <sup>2</sup> )	(240 mm <sup>2</sup> )	(400 mm <sup>2</sup> )	(630 mm <sup>2</sup> )	(1000 mm <sup>2</sup> )	(1200 mm <sup>2</sup> )	(1600 mm <sup>2</sup> )
L (mm)	370	370	390	420	420	440	470

## 1.3

Apply a layer (20% overlap) of red mastic “MBA” for 30 mm length.

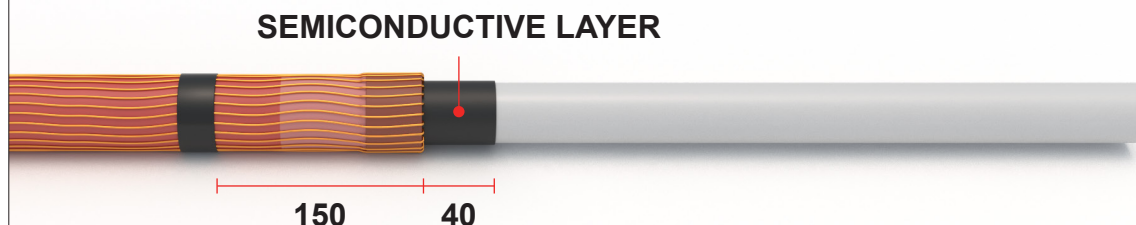


● 1.4

Fold back the copper screen wires and fix them temporarily at 150 mm from cut sheath with some turns of pvc tape.

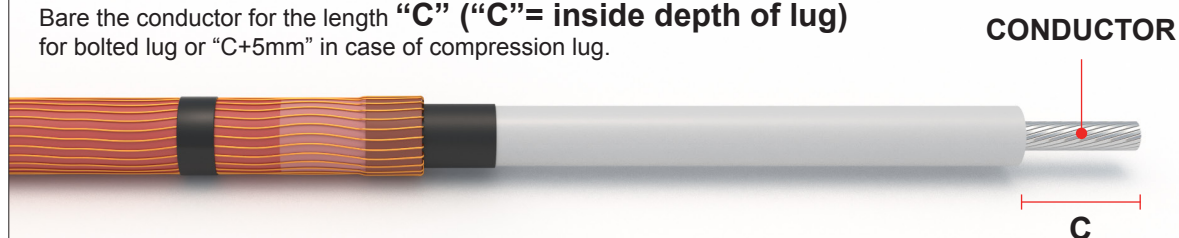
● 1.5

Remove the semi-conductive layer leaving 40 mm out of the outer sheath taking care not to damage the insulation.



● 1.6

Bare the conductor for the length “C” (“C”= inside depth of lug) for bolted lug or “C+5mm” in case of compression lug.



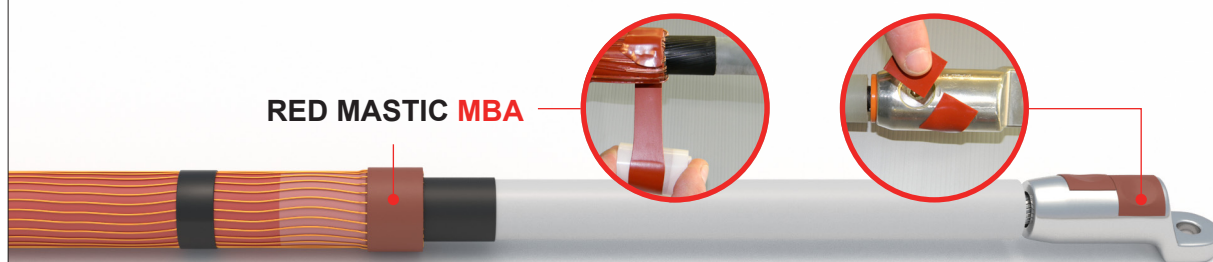
● 1.7

Position the lug and crimp it or break the screws in case of bolted lug following the manufacturer's instructions.



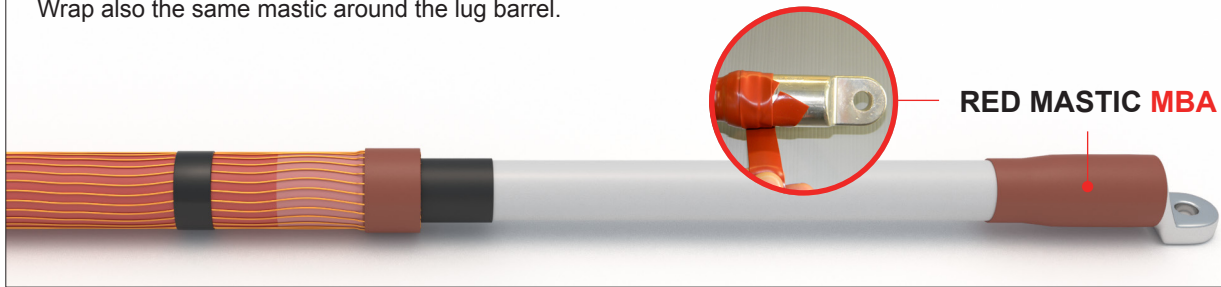
● 1.8

Apply a layer of red mastic “MBA” (20% overlap) over the screen wires covering the previous layer of “MBA”. Fill the cavities over the lug with red mastic “MBA”.



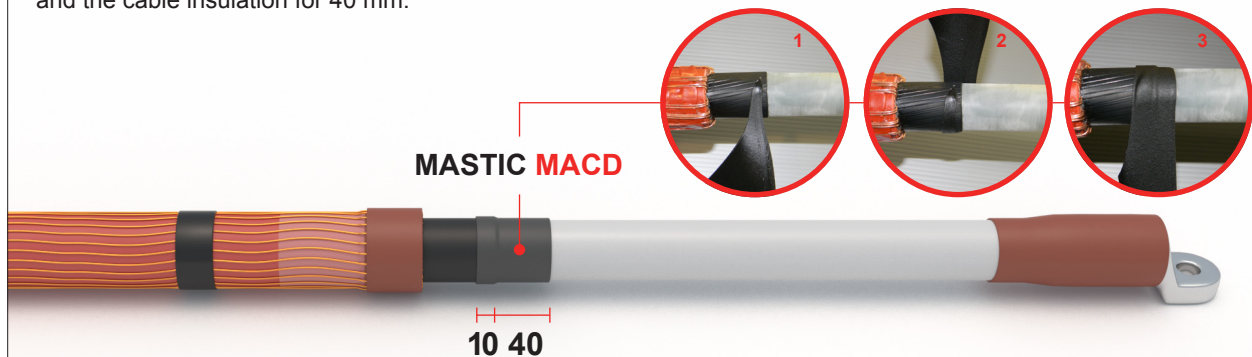
### 1.9

Wrap around the exposed conductor the red mastic "MBA" stretching it, wrap till reaching the lug barrel diameter. Wrap also the same mastic around the lug barrel.



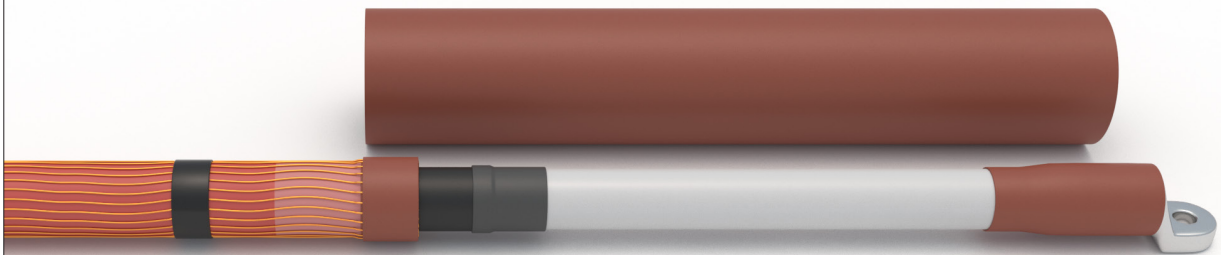
### 1.10

Apply one layer of stress relief mastic "MACD" covering the semi-conductive layer for 10 mm and the cable insulation for 40 mm.



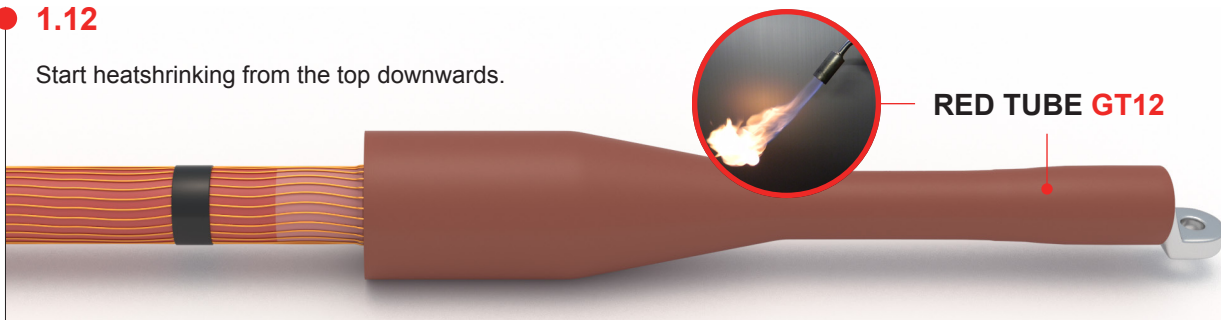
### 1.11

Slide the red tube "GT12" (stress control + insulation) till the TOP edge of red mastic "MBA" applied over the cable lug.



### 1.12

Start heatshrinking from the top downwards.





### ● 1.13

Remove the PVC tape previously applied on the screen wires and split them into two parts; wrap the wires at the bottom of shrunk tube (one round) making a ring. Twist the screen wires, cut straight and crimp OR screw the grounding lug.

**INDOOR TERMINATION IS FINISHED**

**INDOOR  
TERMINATION**

**RING  
WITH WIRES  
SCREEN**

**OUTDOOR  
TERMINATION**

80

160

**RING  
WITH WIRES  
SCREEN**

### ● 1.14 ONLY FOR OUTDOOR TERMINATION

Slide the first antitracking shed at 160 mm from the bottom edge of shrunk tube and heatshrink. Slide the remaining shed and heatshrink. Different number of sheds and tail lengths available upon request.

**OUTDOOR TERMINATION IS FINISHED**

Adjust torch to give a soft blue flame with yellow tip.  
Heatshrink tubes uniformly avoiding wrinkles along the surface.  
Keep the flame moving continuously and maintain adequate distance to avoid over heating.

This product should be installed by competent personnel familiar with electrical equipment and safe operating practices. Parts contained in this kit should be visually inspected for possible damage, and installed in accordance with these instructions. These instructions are not intended as a substitute for adequate training and experience.



Please dispose of all waste according to environmental regulations.

The company reserves the right to alter without notice the information contained in this installation manual.



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