3M QTEN

Installers need experience with High Voltage Accessories

Kit No.	96-EP xxx-2
Conductor Cross Section (mm ²)*	120 - 1500
Diameter over Primary Insulation D (mm)	33.0 - 87.0

* Different cable constructions may change the actual application range. Diameter over Primary Insulation is the final determining factor.

3M Deutschland GmbH	Issue:	Issue date: 23.05.2019

Please note: This product may only be assembled by trained specialized personnel according to these assembly instructions. The preceding specifications are the result of in-depth research. They correspond to the state of our experience. A test by you will convince you of the excellent properties of the 3M products. Verify yourself whether these products are suitable for your purposes. All questions regarding a warranty liability are governed by our terms of sale, unless legal provisions provide differently.

A	ABBDD71877	1. Issue date:	23.05.19
Language:	English	1. Change date:	
Drawn:	R. Horst	2. Change date:	
Checked:	S. Hoffmann	3. Change date:	
		4 Change date:	

3M QTEN

Molded Rubber Termination
for Outdoor Application

96-EP XXX-2

for single core plastic insulated AI wire screened cables acc. to IEC 60840

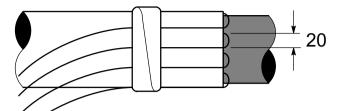
U_m = 72.5 kV

3M Electrical Products

XE-0091-4298-7

Instruction for QTEN Termination for plastic insulated cables with an Al-wire screen

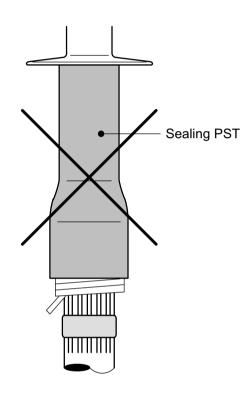
• This instruction refers only to the variant handling of the Al-wire screen connection.



Note:

The Al screening wires shall be folded back with a bending diameter of min. 20 mm. Sharp bends must be avoided! Avoid needless bends of the Al-wires!

• Install the QTEN termination according existing instruction included in the supplied kit UNTIL you are asked to install the bottom Sealing PST.

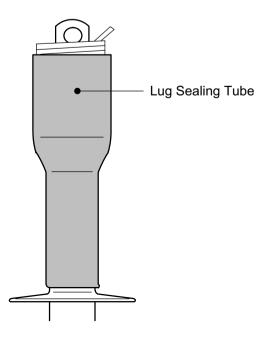


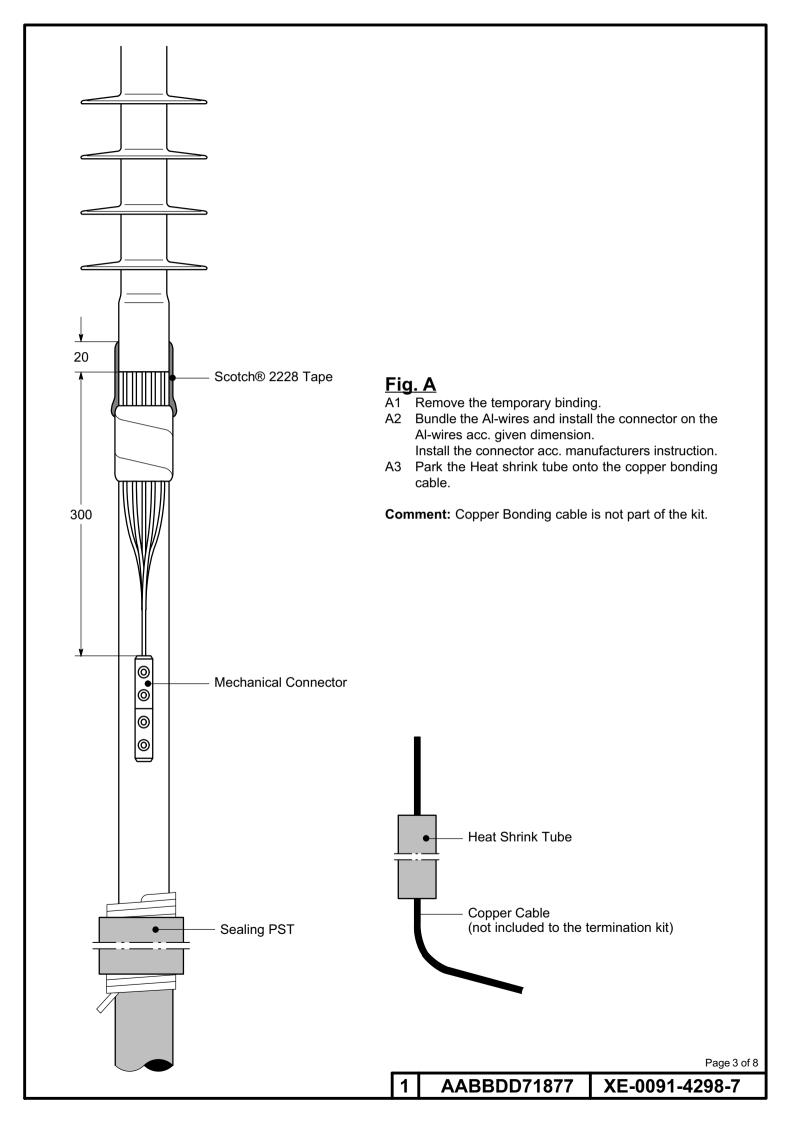
Attention:

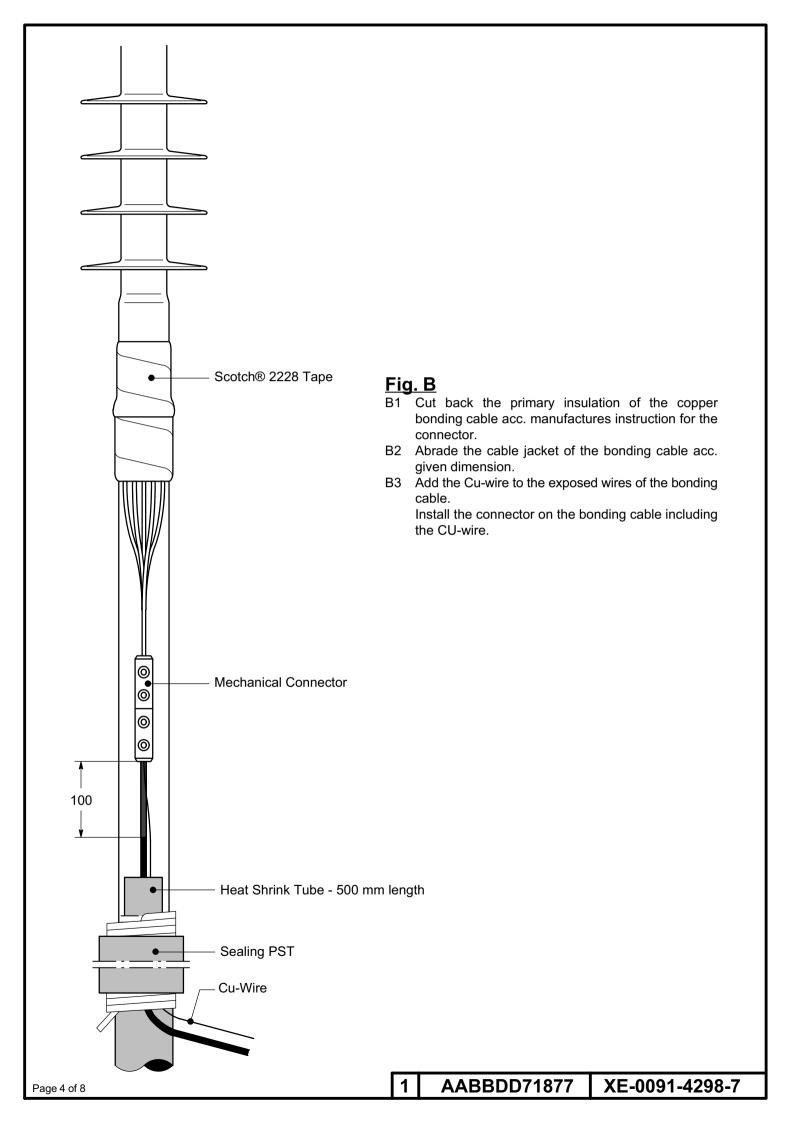
- Do not install the bottom sealing tube according existing instruction existing instruction included in the supplied kit.
- For cables with Al-wire screen refer to this instruction!

Additional comment:

Last step according existing instruction included to the supplied kit is the installation of the Lug Sealing Tube.







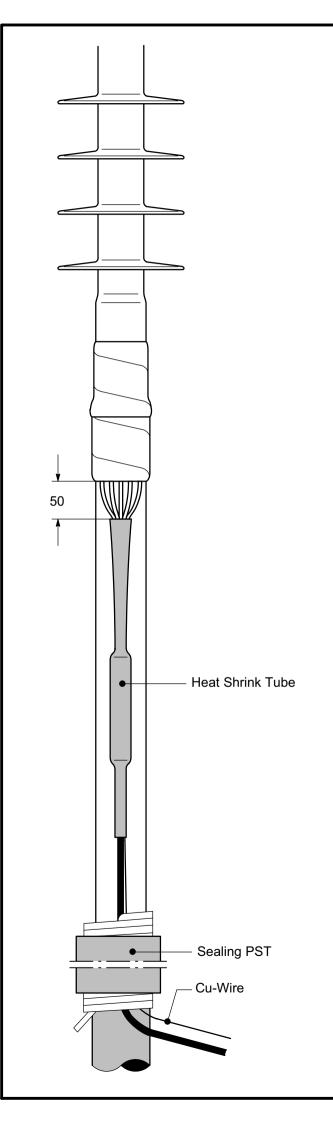


Fig. C

- C1 Push the heat Shrink tube over the Al-wires, the connector, and the bonding cable.
- C2 Shrink down the heat shrink tube.

 Overlap the Al-wires acc. given dimension.

Page 5 of 8

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XE-0091-4298-7

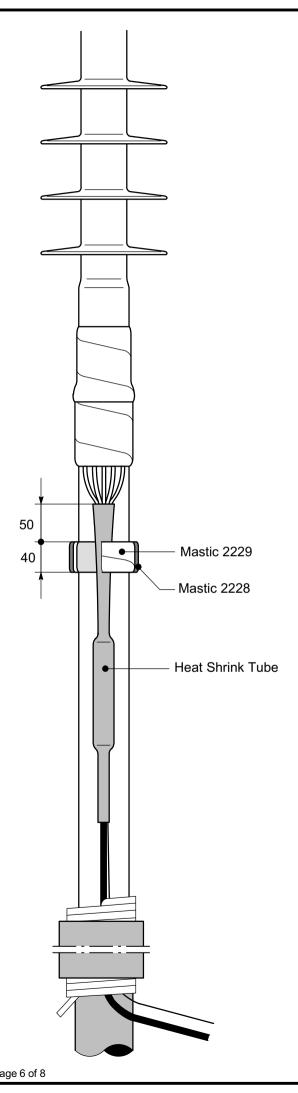
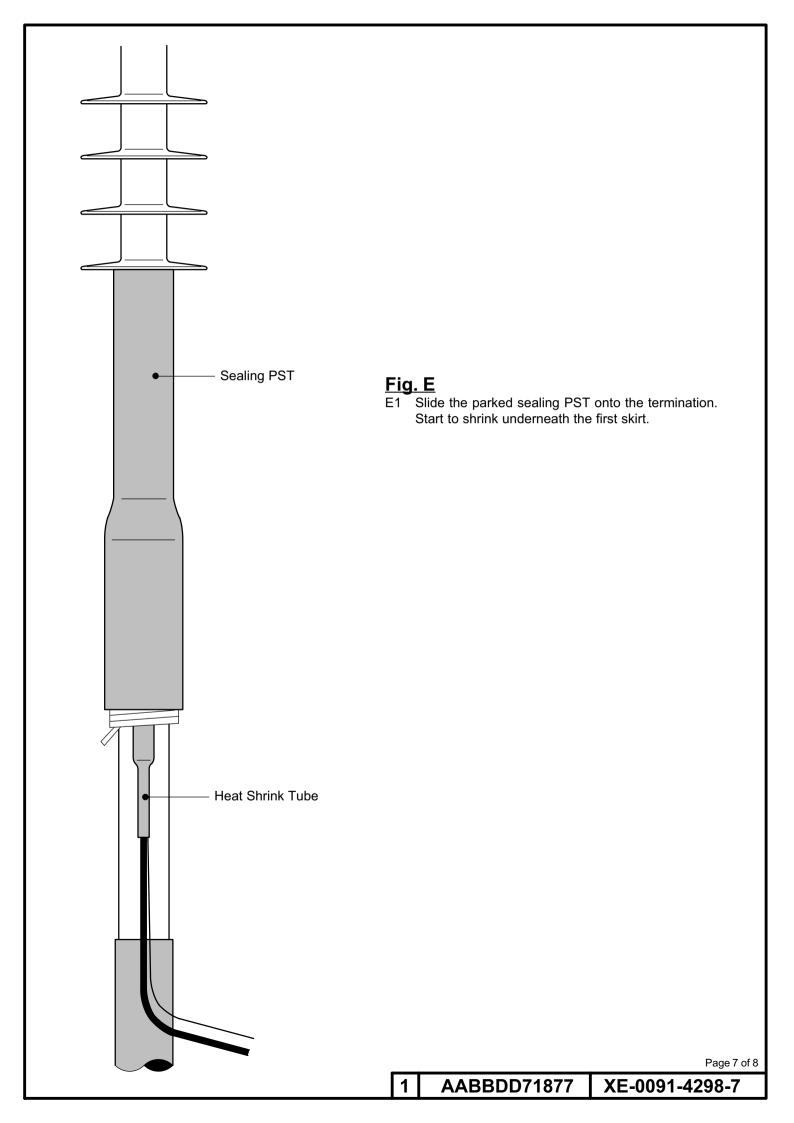


Fig. D

- Apply three layers of Mastic 2229 slightly stretched onto the cable jacket, below the heat shrink tube and above the heat shrink tube acc. given dimension.
- D2 Apply two layers of Mastic 2229 slightly stretched onto the cable jacket and Mastic 2229, above the Heat shrink tube acc. given dimension.
- D3 Cover the Mastic 2229 with one layer of Mastic 2228 slightly stretched.



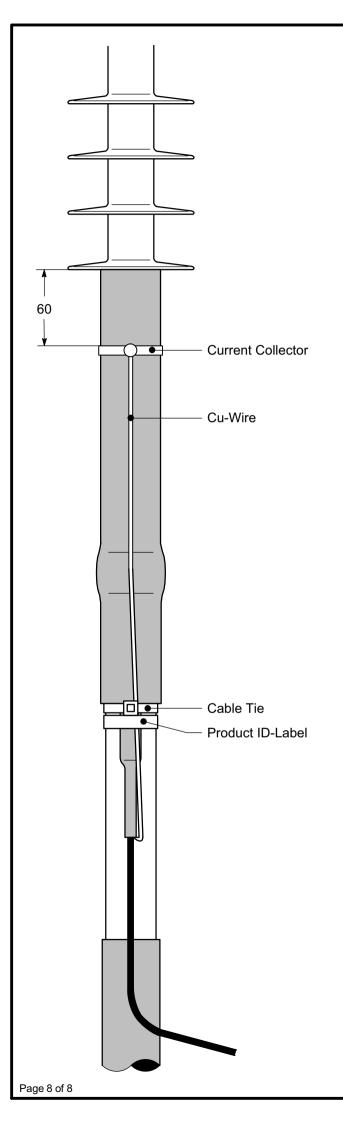


Fig. F

- F1 Place the hose band clip as a current collector over the bottom of the termination and place it 60 mm below the bottom skirt.
- F2 Take one Cu-wire upwards and connect it to the current collector.
- F3 Carefully close the current collector. Make sure that the cold shrink tube will not be damaged.
- F4 Fix the Cu-wires with the 550 mm cable tie.
- F5 Apply and fix the product ID-label with the delivered 380 mm cable tie as shown.

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