

Assembly Instructions

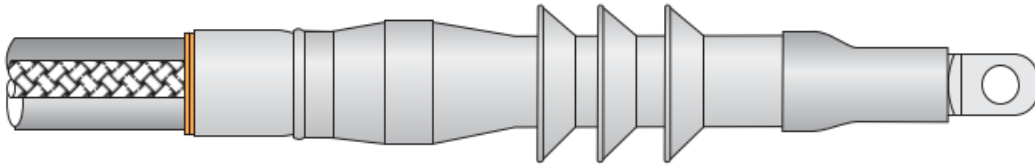
No. 81006A

Part no.: CNN26000044C

Cold Shrinkable Indoor / Outdoor Termination - MST

for 12 ~ 36kV Single Core Polymeric Insulated Cable

with Copper Tape Shield (T2) and with or without Steel Wire/Tape Armour



USES AND CHARACTERISTICS

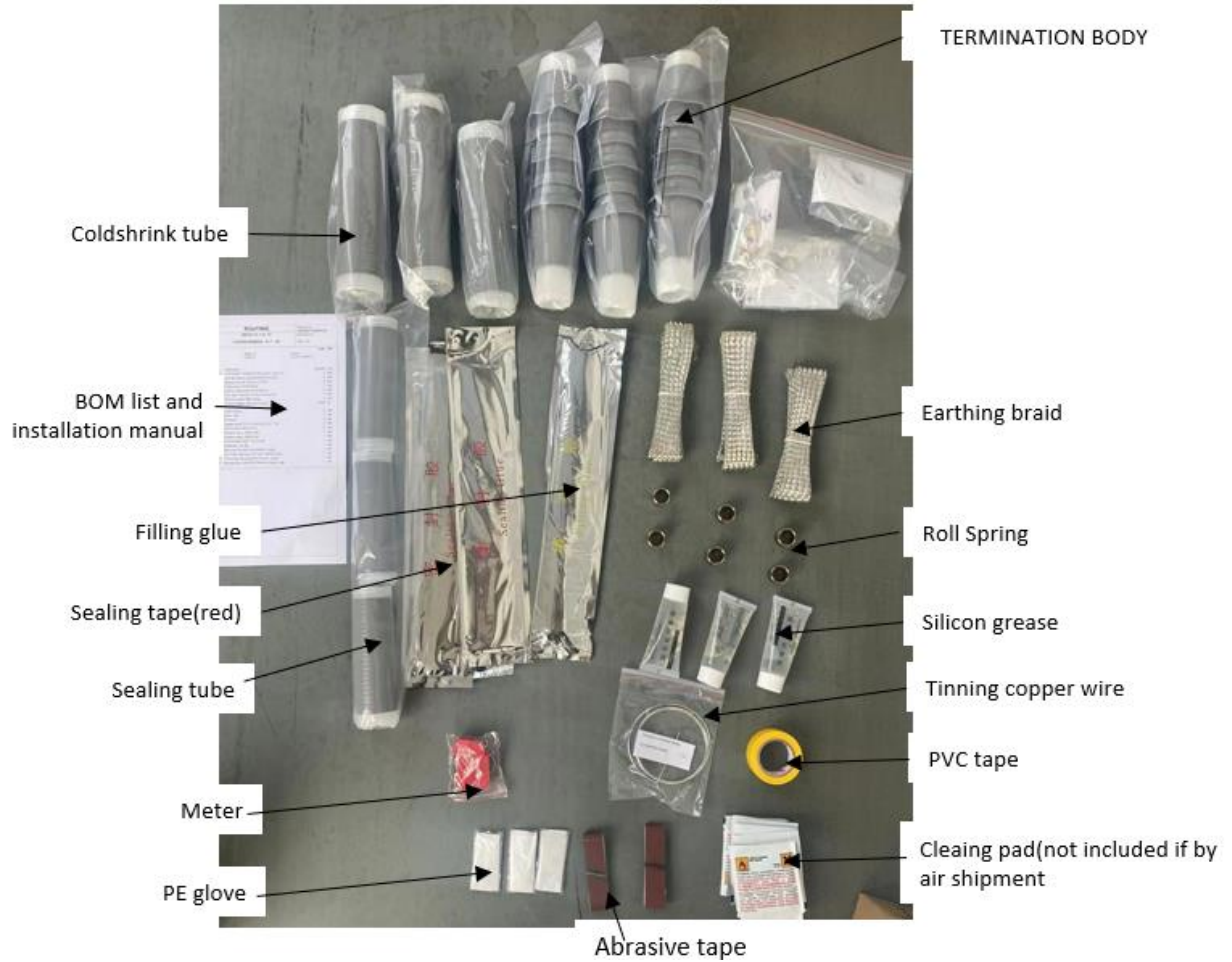
| Cable Type | Kit Reference |
|----------------------------------|---------------------|
| Three cores XLPE Insulated Cable | MSTI/O-1C-xxx-T2-AR |

The proper use or installation of this product requires the skills and expertises of a licensed electrician. The onus is on the user to check that the accessories suits the foreseen use and that the real using conditions allow the proper conditions. The components of this package have to be checked before using. The fitter must follow the assembly instruction and he has to use the suitable equipment and tools. This assembly instruction does not substitute for training session, or expertise about security orders.

| Index | Date | Written | Approved |
|-------|----------|----------|----------|
| B | 21/10/20 | B.Shum | |
| C | 10/11/22 | John CAO | |

PHOTO BOM

Cold shrink TERMFIT (Single Core)



Application Range of Components

1. Termination body

| Body Size | Cable Insulation Application Range(mm) |
|----------------------------|--|
| Termination body Size A/A+ | 14-16.2 |
| Termination body Size B/B+ | 16.2-21.1 |
| Termination body Size C/C+ | 19.9-27.2 |
| Termination body Size D/D+ | 26.1-34.2 |
| Termination body Size E/E+ | 33.8-42.8 |
| Termination body Size G/G+ | 16.2-21.1 |
| Termination body Size H/H+ | 19.9-27.2 |
| Termination body Size I/I+ | 26.1-34.2 |
| Termination body Size J/J+ | 30.7-39.0 |
| Termination body Size K/K+ | 36.8-48.3 |
| Termination body Size L/L+ | 23.0-32.2 |
| Termination body Size M/M+ | 30.7-39.0 |
| Termination body Size N/N+ | 36.8-48.3 |
| Termination body Size O/O+ | 46.2-55.2 |

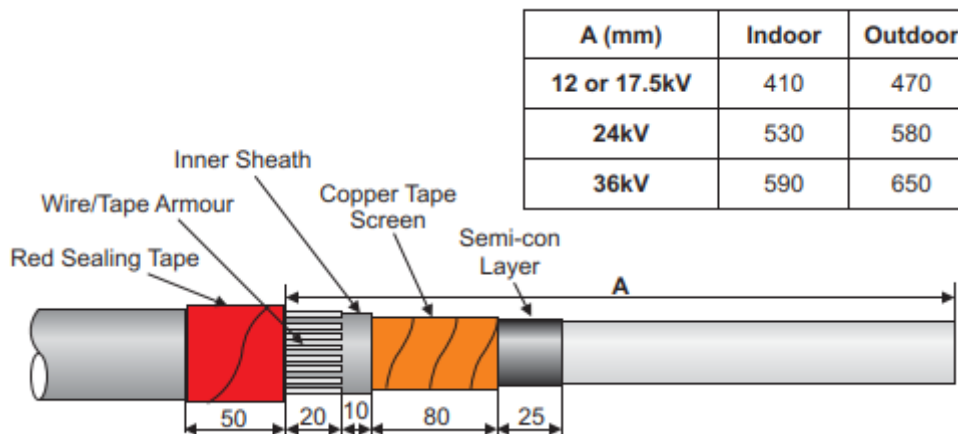
2. Cold shrink tube

| Product Type | Cable Application Range(mm) |
|---|-----------------------------|
| Sealing tube 1# (13/32-2.0×160) | 15~22 |
| Sealing tube 2# (16/40-2.0×160) | 18~30 |
| Sealing tube 3# (20/50-2.5×160) | 22~40 |
| Sealing tube 4# (25/60-2.5×160) | 27~50 |
| Sealing tube 5# (30/70-3.0×160) | 32~60 |
| Sealing tube 6# (36/80-3.0×160) | 38~70 |
| Cold shrinkable tube 1# (13/40-2.0×225) | 15~30 |
| Cold shrinkable tube 2#(16/50-2.0×225) | 18~40 |
| Cold shrinkable tube 3#(20/60-2.5×225) | 22~50 |
| Cold shrinkable tube 4# (25/65-2.5×225) | 27~55 |
| Cold shrinkable tube 5#(30/75-3.0×225) | 32~65 |
| Cold shrinkable tube 6# (36/80-3.0×225) | 38~70 |

1. CABLE PREPARATION

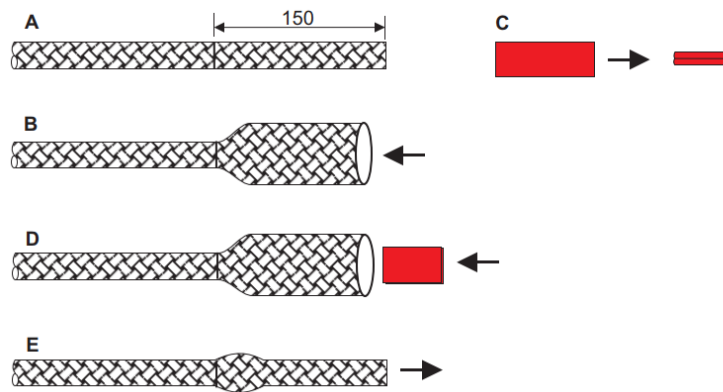
- Remove the extra length of cable, remove the outer sheath and make sure the distance A is longer the number in the below table.
- Remove the armour (if any), inner sheath, copper tape screen and semi-con layer with dimensions as shown in the drawing.
- Abrade the outer sheath over 50 mm.
- Wrap one turn of red sealing tape around outer sheath for 50mm from the outer sheath cutback as shown.

NOTE : For non-armored cable, inner sheath cutback is 30mm from the outer sheath cutback.



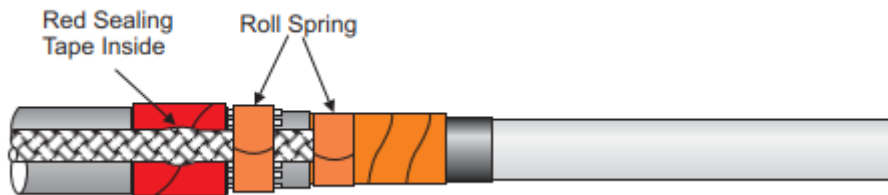
2. EARTH BRAID PREPARATION

- (A) Mark a line 150mm from the end of each copper earth braid.
 - (B) Open the end of the copper earth braid by pushing in the direction of the arrow to form a tube. Do not open the braid further than 150mm.
 - (C) Cut for a 100mm length, fold it half to 50mm length.
 - (D) Position the red sealing tape inside the copper earth braid with the end level with the line.
 - (E) Pull the end of the copper earth braid in the direction of the arrow and press the braid into the sealing tape.
- Repeat the procedure at one end of each piece of copper earth braid.

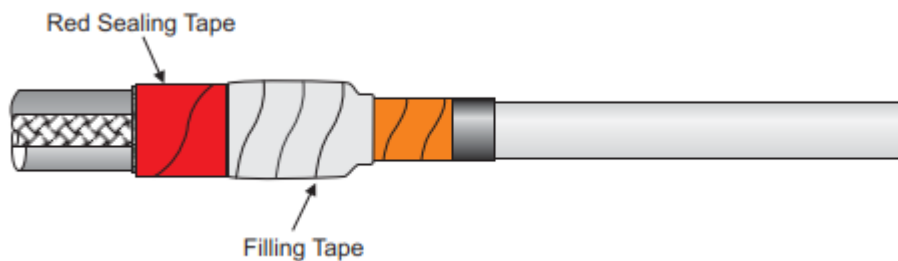


3. EARTH BRAID CONNECTION

- Position the area of earth braid with red sealing tape inside on the red sealing tape on the cable sheath.
- Secure the earth braid on the copper tape screen with a roll spring.
- Secure the earth braid on the wire/tape armour or inner sheath (non-armoured cable) with another roll spring.

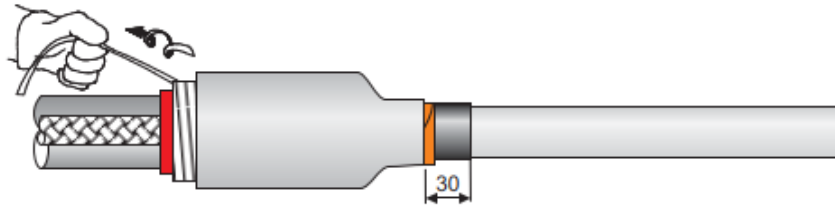


- Wrap one layer of red sealing tape cover the red sealing tape underneath the earth braid.
- Wrap one layer of filling tape with 50% overlapping starting from the edge of red sealing tape and cover the two roll springs.



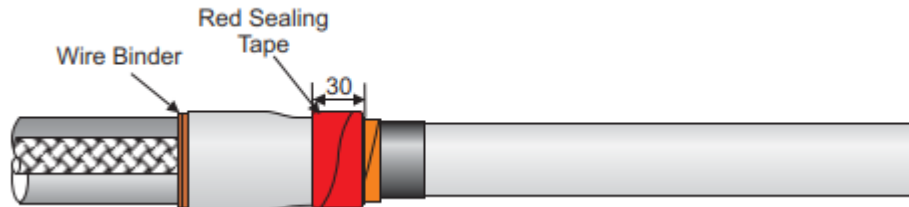
4. EARTH COVERING

- Slide the cold shrink sleeve over the core, start shrink the sleeve at 30mm from the semi-con cutback.



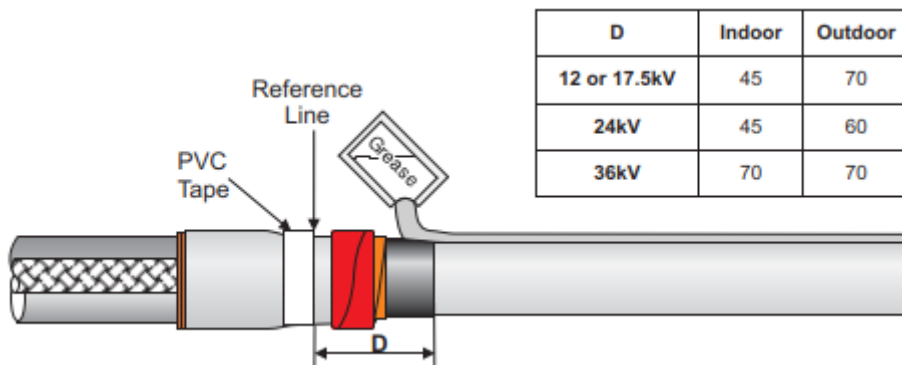
5. EARTH CONNECTION

- Secure the earth braid on the cable sheath with a wire binder along the edge of the cold shrink sleeve.
- Wrap one turn of red sealing tape around the end of the core sleeve for 30mm as shown.



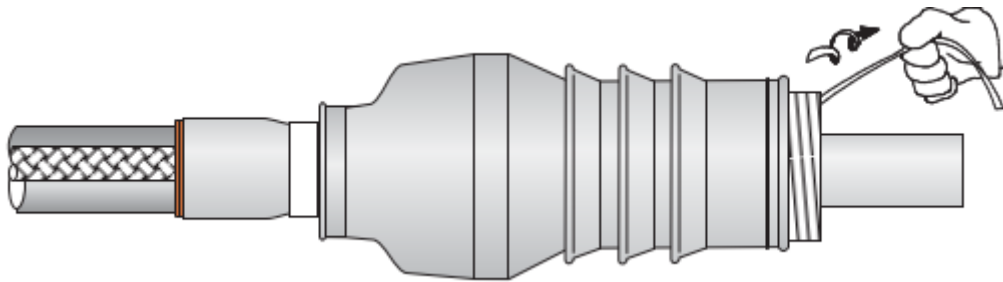
6. LUBRIFICATION

- Carefully clean the cable insulation.
- Wrap one layer of PVC tape on the core protection sleeve with dimensions from the semi-con cutback as reference line.
- Grease the whole surface of XLPE and semi-con layer with the grease supply in the kit.



7. SETTING OF TERMINATION BODY

- Remove the plastic protection bag from the termination body.
- Slide the termination body over the core up to the reference line.
- Keeping tight the plastic cord. **The plastic cord has to be on the lug side.**
- Steadily pull on the removable cord, unwinding it around the cable, making sure to respect the spinning direction.
- After 40 mm of shrinking, reset the termination body position level with the reference line if necessary, and fully shrink it.

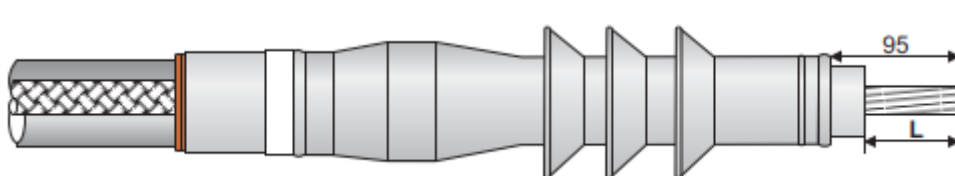


8. REMOVAL OF CORE INSULATION

- Cut the core at dimension 95mm from the end of termination sleeve.
- Remove the insulation for distance "L".

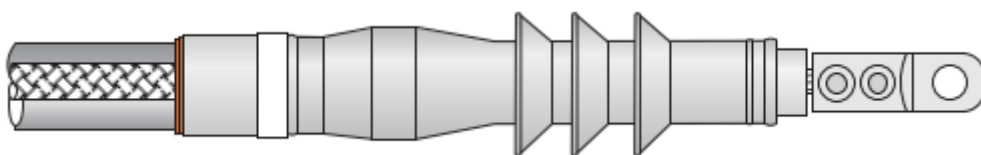
L = depth of lug barrel + 5mm for compression lug

L = As per manufacturer's instructions supplied with the mechanical lug



9. SETTING OF THE LUG

- *Take the SHEAR BOLT LUG as reference
- Position the lug on the conductor.
- INSTALL THE LUG AS PER MANUFACTURER'S INSTRUCTIONS.

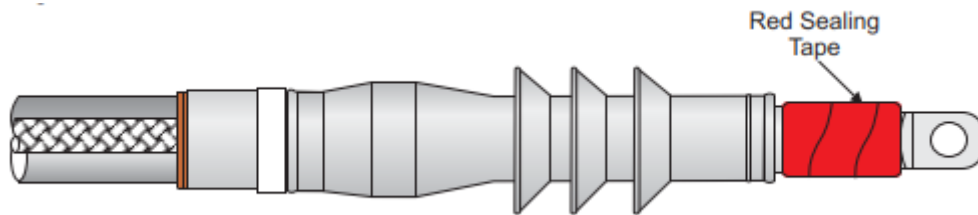


10. LUG SEALING & EARTH CONNECTION

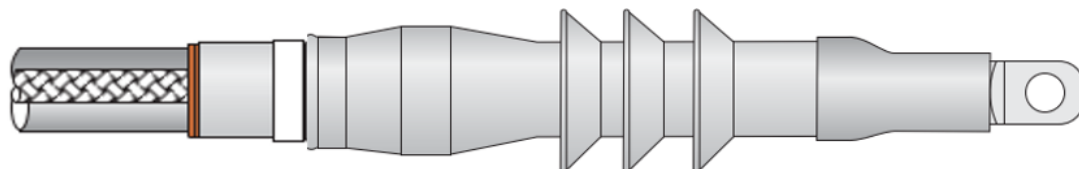
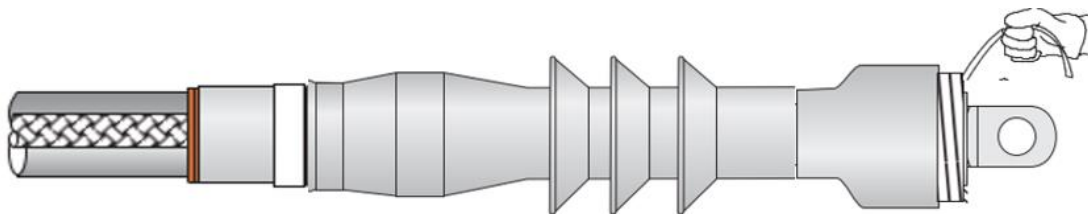
- Wrap one layer of red sealing tape over the cable lug and filled the gap between cable

lug and insulation.

- The sealing tape can be 5mm overlap on the cable insulation.

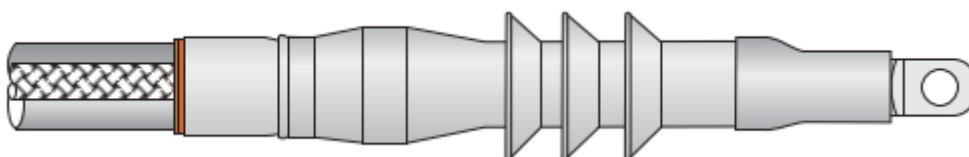


- Slide the cold shrink sleeve over the cable lug as shown in the drawing.
- SLOWLY pull on the plastic cord of the cold shrink sleeve, fully unwinding it (counterclockwise) around the cores
- If the sealing tube is too long, cut and remove the over length tube around the lug, then wrap one layer of PVC tape on the cutting line.



- Remove the PVC tape on the reference line.
- De-grease and clean the termination.

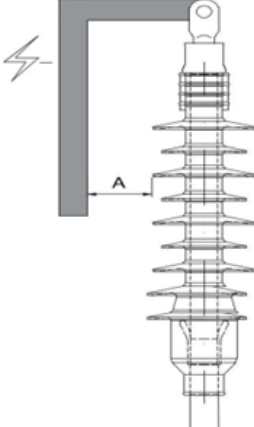
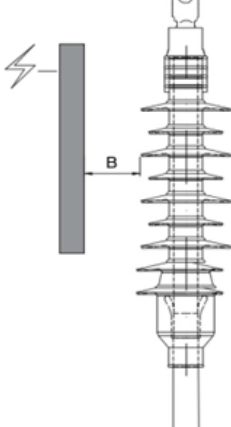
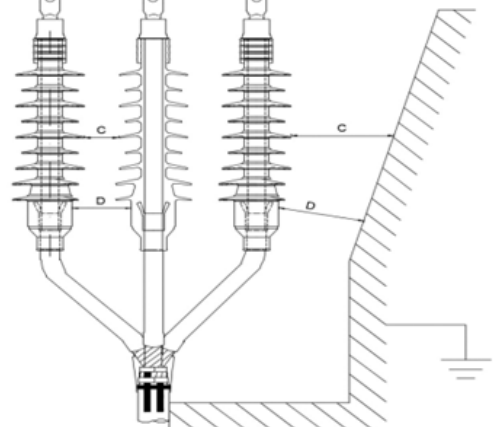
Termination completed.



END

Appendix

**The Distance of Phase to Phase/Phase to Ground Requirement
Of Prysmian Termfit**

| Prysmian Termfit(Indoor & Outdoor) Operation Distance Requirement On Site | | | | | |
|--|---|--|----------------|---|---------------|
|  | |  | |  | |
| Distance | Description | 6/10(12)kV | 8.7/15(17.5)kV | 12.7/22(24)kV | 26/35(40.5)kV |
| A | Termfit body to same phase bare conductor distance | 76 | 127 | 190 | 330 |
| B | Termfit body to other phase bare conductor distance | 114 | 190 | 267 | 457 |
| C | Termfit skirt to ground or other phase distance | 15 | 30 | 40 | 50 |
| D | Termfit body lower part to ground or other phase distance | 10 | 20 | 25 | 30 |