72.5kV Slip-on Outdoor Termination Installation Instructions

Important：

1. Please cut off the power of the system before installation, maintenance, and disassembly, and make sure that the product rating (72.5kV and below) is consistent with the application.
2. Check all spare parts specifications, verify the quantity is as listed, and ensure that it matches the cable or product.
3. This product must be installed and operated by well-trained electricians, and the installation should comply with "Installation regulations for cold-shrinkable cable accessories with rated voltage 35kV and below".
4. Read the installation manual carefully before installation, prepare the tools required for installation, and keep them clean throughout the installation process.

Required installation tools： Cable stripping tools, terminal crimping tools.

ORDERING INSTRUCTIONS:

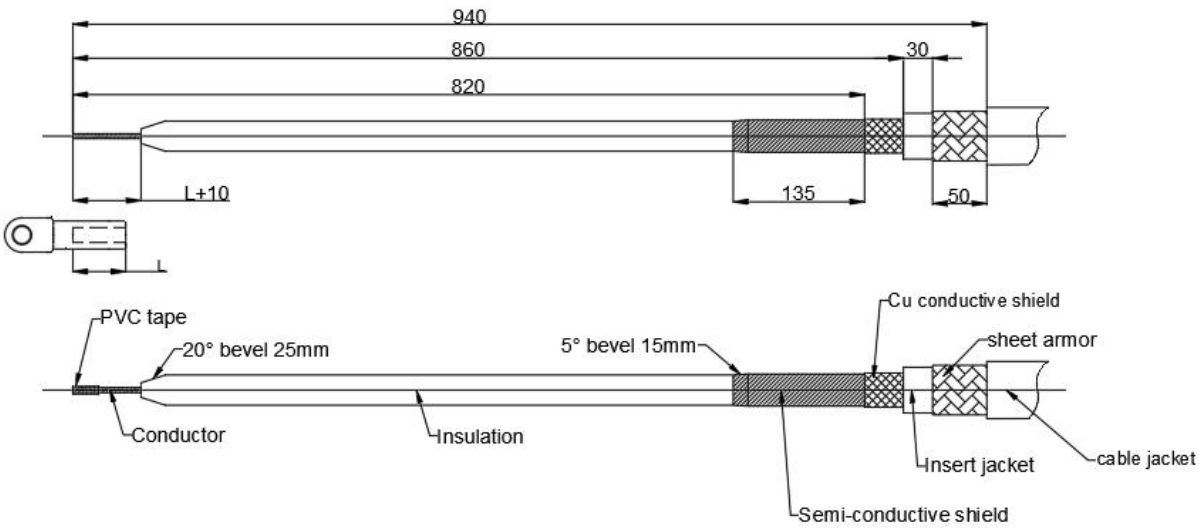
Voltage Rating	Part Number	Applicable Insulation Outer Diameter Range (mm)
38/66（72.5）kV	72-SOTO-A	36.5~41.9
38/66（72.5）kV	72-SOTO-B	41.9~45.3
38/66（72.5）kV	72-SOTO-C	45.3~50.3
38/66（72.5）kV	72-SOTO-D	49.5~56.9

Product accessories list：

72.5kV Slip-on Outdoor Termination (Single-Core)					
No.	Description	QTY	No.	Description	QTY
1	Termination Body	1	9	Copper wire	2
2	Heat shrinkable Jacket Seal	1	10	Sandpaper belt	12
3	Cold Shrinkable Jacket Seal	1	11	Gloves	2
4	Mastic tape	1	12	Lubricant Application Rod	1
5	Semi-conductive tape	1	13	Constant-force spring	2
6	Silicone lubricant	6	14	Grounding Braid	2
7	Paper towel	6	15	Installation Instruction	1
8	PVC tape	1	16	Packing List	1

INSTALLATION PROCEDURE

STEP 1

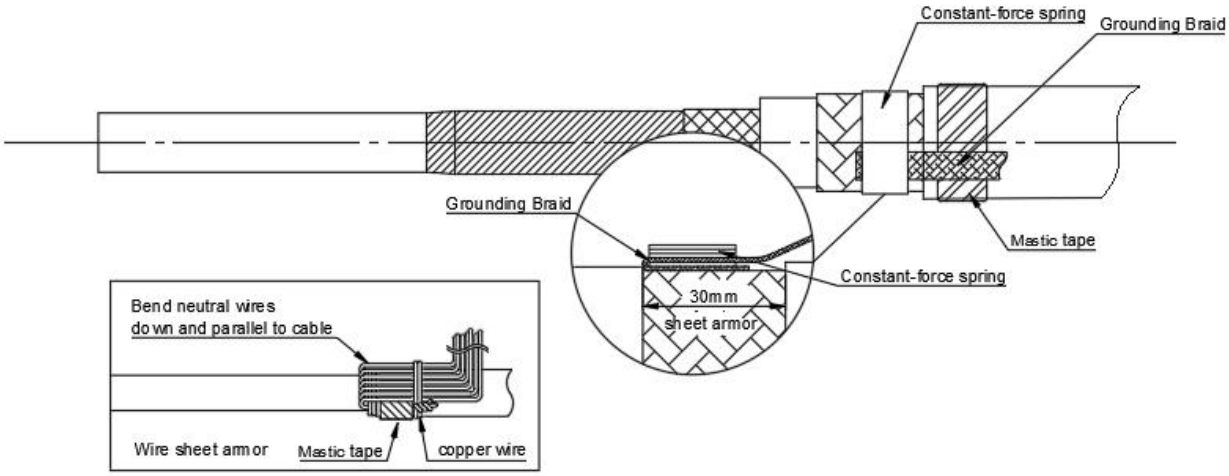


- Prepare cable using dimensions as shown.

NOTE: Ensure that all parts of the cable are not damaged. If there is any irreparable damage, a new cable needs to be made. If there is any impurity or slight damage on the surface of the insulation, it can be polished with fine sandpaper.

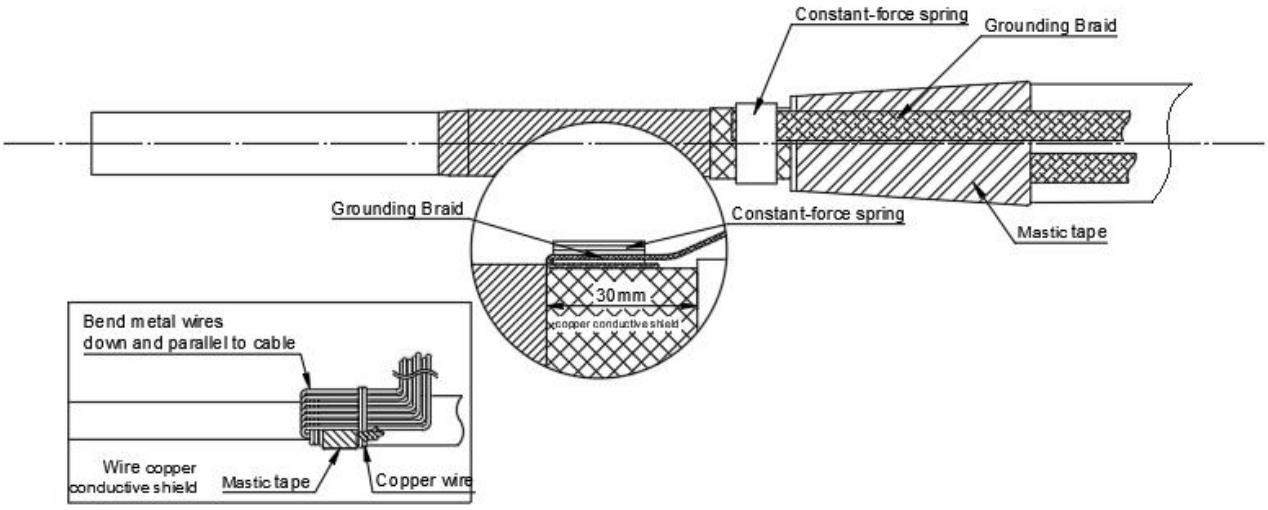
STEP 2

- Use coarse sandpaper to grind the cable jacket about 100mm to rough the surface. Clean outer jacket and armor, and evenly wrap one layer of mastic tape 25mm away from the end of the cable jacket.
- Use constant-force spring to fix grounding braid into armor as shown in the following figure. If the armor is a wire structure, use copper wire for binding and fixing, and then fold it back after fixation.
- Wrap 2 layer of mastic tape to cover constant-force spring and grounding braid on armor.

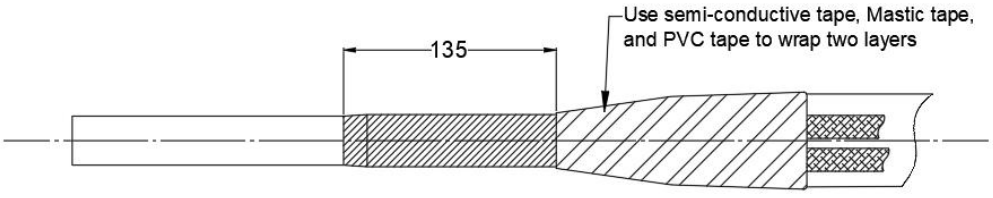


STEP 3

- Use constant-force spring to fix grounding braid into copper conductive shield as shown in the following figure. If the copper conductive shield is a wire structure, use copper wire for binding and fixing, and then fold it back after fixation.
- The shielded grounding wire needs to be distinguished from the armored grounding wire, and overlapping and conducting are prohibited.

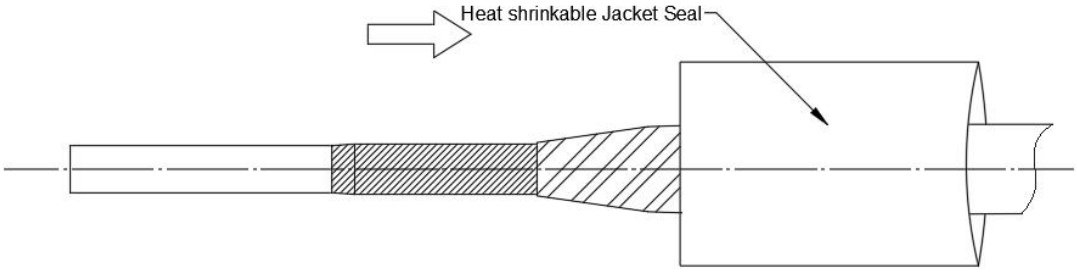


- Use semi-conductive tape, mastic tape, and PVC tape to wrap two layers around the copper conductive shield to the cable jacket area, and ensure waterproof sealing.



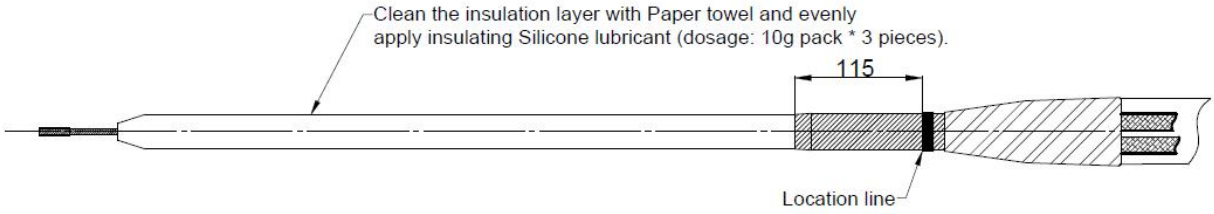
- After wrapping the tape, confirm the dimension of the semi-conductive shield.

- Insert the Heat shrinkable Jacket Seal into the cable and place it on the back end for later use.

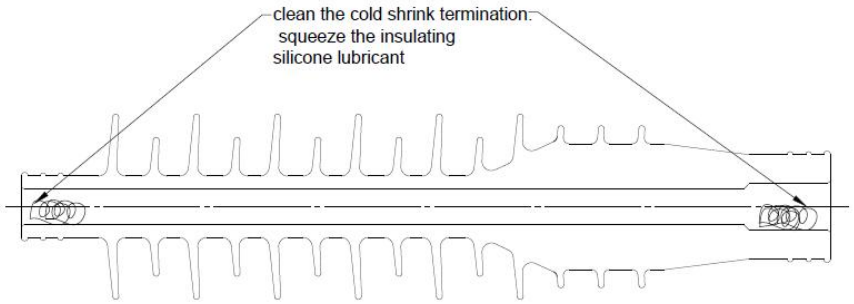


STEP 4

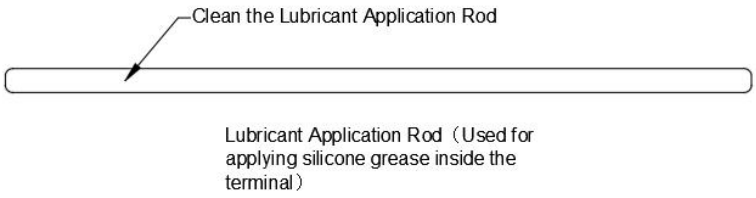
- Measure 115mm from the semi-conductive incision and mark it with PVC tape.
- Use fine sandpaper to polish the insulation surface and remove any remaining semi conductive particles or impurities.
- Clean the insulation layer with paper towel and evenly apply insulating silicone lubricant (dosage: 10g pack * 2 pieces).



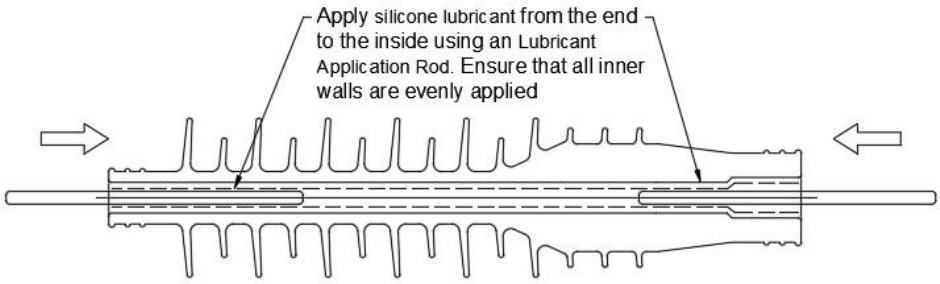
- Use paper towel to clean the slip-on outdoor termination. After the alcohol evaporates squeeze the insulating silicone lubricant into the slip-on outdoor termination (dosage: 10g pack, 2 at each end) .



- Clean the Lubricant Application Rod.

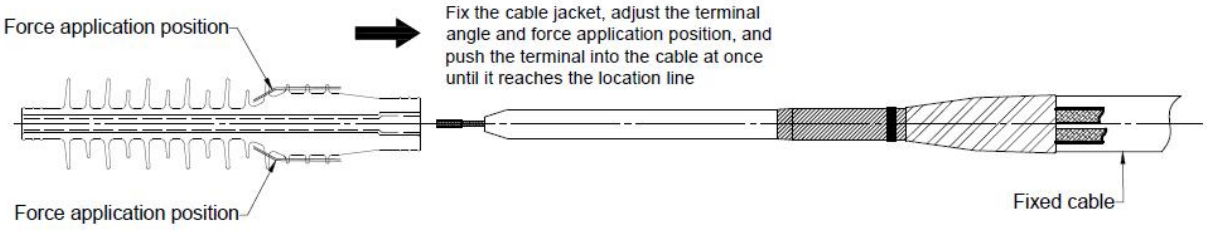


- Apply silicone lubricant evenly inside the terminal.

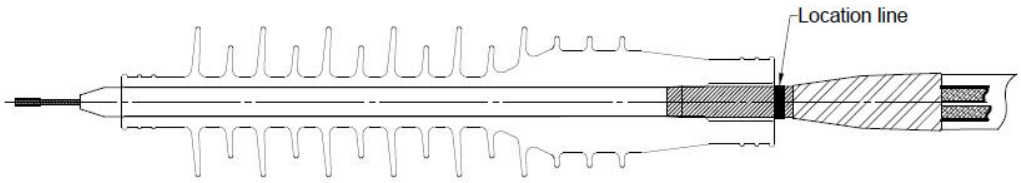


STEP 5

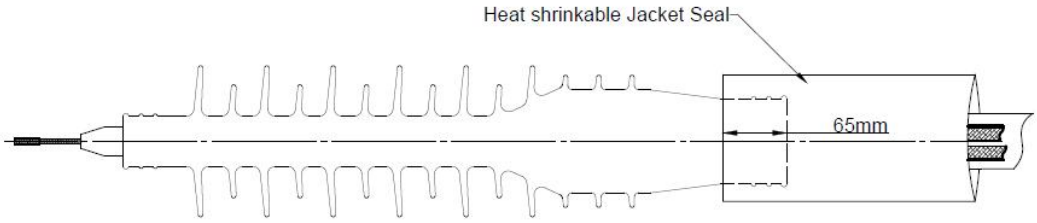
- Check and confirm the cables and terminals to ensure product cleanliness and even application of silicone lubricant.
- Fix the cable jacket, adjust the terminal angle and force application position, and push the terminal into the cable at once until it reaches the location line.
- Two personnel are required to perform the installation simultaneously, and the chamfering of the insulation mouth and the application of silicone lubricant affect the magnitude of the installation force.



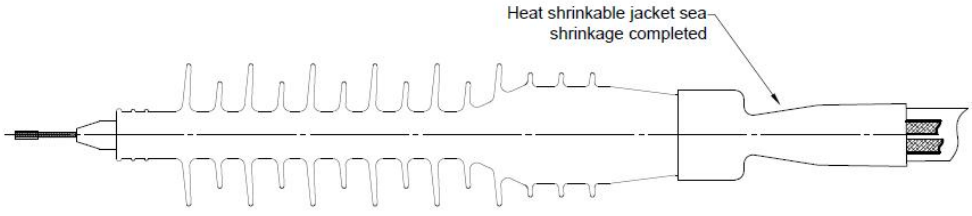
- Terminal installation in place.



- Insert the heat shrinkable jacket seal into the designated position and use a heat gun or spray lamp to bake and shrink it.

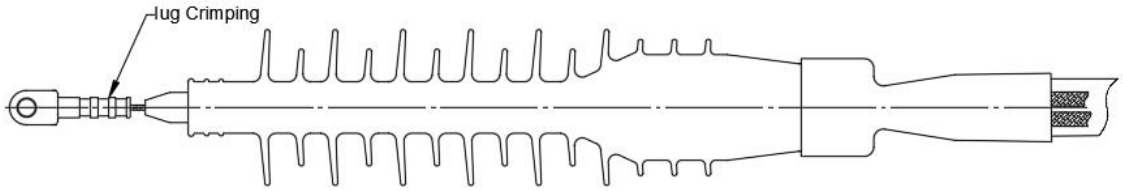


- Heat shrinkable jacket seal shrinkage completed.

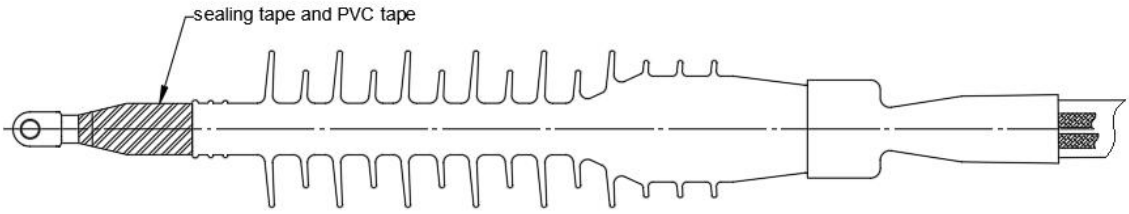


STEP 6

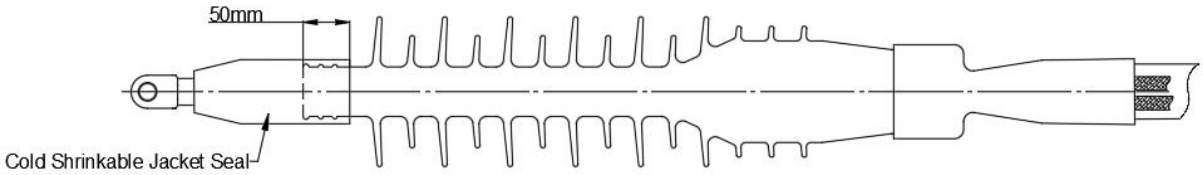
- Remove the PVC tape from the cable conductor and use fine sandpaper to polish off the oxide layer or impurities on the surface of the conductor.
- Insert the lug into the cable conductor and select a suitable crimping die for crimping, with a crimping force of at least 12T.
- After crimping, remove surface burrs and clean the surface of the lug.



- Wrap mastic tape and PVC tape around the area from the lug to the cold shrinkable termination to seal this area and make the outer diameter size transition evenly.



- Install the cold shrinkable jacket seal to the designated position and perform the final sealing.
- The product installation is now complete.



The waste generated during the installation, use and replacement of this product should be sorted and should not be discarded at will.

This installation manual cannot cover all the instruction details, nor can it completely solve various problems encountered during the installation process, so when encountering difficulties or special problems during the specific installation process, please contact us in time.

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