

AZCT-12/24 630A straight connector

1. Brief Introduction

1.1 Ample ACTZ-12 /24KV 630A Straight connector:The rated current is 630A and rated voltage is 15kv and it applies to 8.7/ 15kv XLPE cable.

1.2 The conductor cross section is 35-300mm² and it's suitable for cable branch box,rain main unit and pad-mound transformer,etc.

Type	I Type	II Type	III Type
Conductor cross section	35-95mm ²	120-185mm ²	240-300mm ²

2.Performance Condition

Temperature of environment: -40℃～60℃, long-term performance temperature,over-loaded and short circuit temperature meeting the requirement of the matching cable.

3.Structure

This product is made of special three-layer rubber,so it has strong tracking resistance and corrosion proof, excellent electric performance and it's easy for installation.Therefore,it is an international advanced and fully screened product.

Installation Instruction

1. Installation of cold-shrinkable cable accessories

1 (fig1) Place the cable at the scheduled position and peel off the coating,steel armour and laying;Strip the steel armour to 40mm,tie it and remove the coating;Strip inner cable jack to 10mm;Wrap ends of steel armour and copper shield with PVC band respectively and then remove the fillings and tie wires.

Note:Because of different installation and size ,so the size in fig1 is just for reference.The concrete installation depends on the realistic condition.

1.2 (Fig2) Fix the earthing wire and intertwine the filler-gum:Use a constant force spring to fix the earthing wire with 25mm approx.at portion 30mm to end to copper shield ,then fix the earthing wire on the copper armour with another constant force spring .Sufficiently tape the constant force springs at the trifurcate place and the outer cable jack 30mm to the end,PVC band wrapping is needed for exterior parts .

1.3 (Fig3) Install the cold-shrink three-core tubing :Put the cold-shrink three-core tubing onto the root of the trifurcate place.Tape the outer insulation portion to the master tube end (including the earthing wire) before cleaning properly.Draw out the extending plastic in the master tube and then seal the master tube end with self-adhesive insulation and PVC tape.

Note:Line the three-core tubing appropriately according to the installation position,dimension and layout form to make sure the plug hole of the three-core tubing centers effectively with the bushing screw.

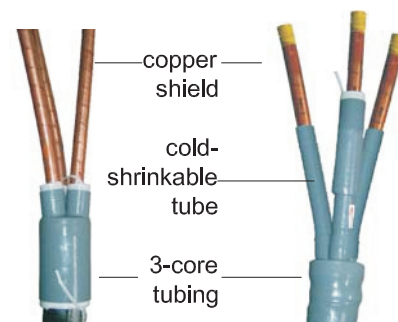
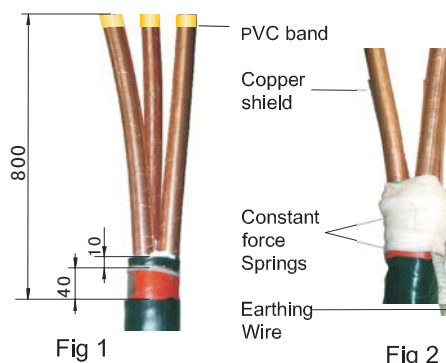


Fig 3

Fig 4

1.4 (fig 4) Install the cold shrinkable tube:Insert the cold shrinkable tube into the three-core cable and leave the related joint of 15mm,then draw out the support bar circularly to make it shrunk.

Note:When cutting the cold shrinkable tube ,it should be fixed first by PVC band and then cut circularly,do not cut axially.

2.Stripping cables

2.1 (fig5) Strip cables following the right figure and do not scratch the surface of the core insulation.As to the visible vestige in the surface of core insulation,it should be polished to be invisible by emery cloth.And there should be a 3mm bevel between the semi-conductive layer and the core insulation.Cut the bevel of semi-conductive layer in direction from the core insulation to semi-conductive layer,otherwise,it is easy to scratch the core insulation..Besides,the copper shield should be as smooth and flatable as the top of the cold shrinkable tube.

Note:When stripping the semi-conductive layer of the cable and copper shield,use the knife measurably.

3.Cleaning the core insulation

3.1.Use the dielectric cleaning tissue to clean the core insulation in the direction from the core insulation to the semi-conductive layer of the cable,check whether there exists the black semi-conductive kernel and clean it.

Note:Do not use the same dielectric cleaning tissue repeatedly and do not let it connect the compression plug and the semi-conductive layer.

4.Extending the straight connector

(fig7) Clean the surface of the dilator and the endoporus of the straight connector,apply a little silicon grease,and then take out the axial core after extending the straight connector.

5.Inserting the straight connector

(fig8) Insert the extended straight connector into the cable to expose the conductor.

6.Fixing the compression plug

6.1 (Fig9,fig10) Whirl the compression plug into the bushing tube tightly,whirl the bolt tightly after inserting the cable conductor into the hole of the compression plug,then press the conductor tightly (or insert the compression into the conductor first ,and whirl it compactly with the bushing socket,then compress the conductor tightly) and do not allow it to be flexible between the compression plug and the bushing socket.

Note:Whirl the cable leftly when pressing the conductor to produce an opposite force ,and a revolving force between the compression plug and the bushing tube.

7.Installing the straight connector

7.1 (Fig11,fig12) Clean the bushing tube,straight connector and the fixing surface of the core insulation,apply the silicon grease on them,then push the straight connector forward to be directly against the socket,whirl the extension tube to make it withdrew.

8.Fixing the straight connector

8.1 (Fig13,fig14) Tear off the extension tube from the broken part, turn the straight connector to make it cooperate closely with the bushing socket,then fix the straight connector by mounting compression piece,use the semi-conductive band to wrap them between the end of the straight connector and the insulation tube,finally,the whole system can touch the ground safely.

