Mounting of shielding caps on conductor connections

Product information

This instruction shows how to connect shielding caps on conductor connections. Shielding caps protect the internal distances. Contacts closest to the tank or adjacent winding can be paper wound. The use of paper, or not, is decided by the transformer manufacturer’s design specifications.

The width of the cable lug must not be wider than the outer diameter of the caps. If so the terminal must be wound with paper. (For further information, see the corresponding Installation guide.) For example M10 caps have an outer diameter of 30 mm meaning that the cable lug must not exceed this diameter.

Following caps can be used for the different products, and are not depending of BIL.
- M10 caps is suitable for UBB, VUBB and tap selector C
- M12 caps is suitable for tap selector III and tap selector F

Procedure
1. Connect all conductors to the tap-changer terminals according to the connection diagram supplied with the tap-changer. Make sure to make an expansion bend on every conductor. All connection bolts must be carefully tightened with the torque prescribed in the applicable tap-changer installation guide.

CAUTION
The conductors must not cause mechanical stress on the tap-changer terminals.

It is recommended that the distance between the cylinder and any conductor be at least 50 mm.

The transformer manufacturer is responsible for providing sufficient distances in the oil.

2. If shielding caps are used, attach and close them according to Figs. 1 and 2.

CAUTION
The shielding caps must not be opened and closed more than 3 times before being replaced. The shielding caps are delivered as shown in Fig. 3a.

CAUTION
The shielding caps must not be opened to 180°. See Fig. 3b.

Shielding caps can be bought as accessories.
Contact us

ABB AB
Components
SE-771 80 Ludvika, Sweden
Phone: +46 240 78 20 00
Fax: +46 240 121 57
E-Mail: sales@se.abb.com

www.abb.com/electricalcomponents