Dry plug-in termination for gas-insulated switchgear or transformer CD 145–170 kV

Use
Dry cable termination suitable as a fixed connection point in a gas-insulated switchgear, a transformer without a separate cable box or where the cable box is filled with transformer oil.

Standard
Meets the requirements of:
− IEC 60840
− Dimensions according to IEC 62271-209, dry-type design

Design
The cable termination is to be ordered in two separate kits:
1. CD 145, CD 170; plug-in connector kit consisting of plug-in connector, locking halves, stress cone, pre-loaded spring assembly, box body, earth clamp and cable clamp.
2. CDI 145, CDI 170; insulator kit consisting of top fitting, epoxy insulator with integrated screen separation and pressure ring.

For the maximum permitted diameter over the oversheath of the cable and the diameter over prepared insulation, see the table below.

The following cable data should be stated when ordering, see page 5/1:
− Voltage
− Diameter over prepared insulation
− Conductor cross section
− Conductor material, copper or aluminium
− Screen, sheath design and cross section
− Overall cable diameter
− Optical fibres integrated in screen

<table>
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<tr>
<th>Voltage level (kV)</th>
<th>Designation</th>
<th>Description</th>
<th>Standard dimensions</th>
<th>Gross weight kg/kit</th>
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<td>Plug-in connector kit</td>
<td>IEC 62271-209</td>
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<td>CDI 145</td>
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Technical specification and accessories
CD 145–170 kV

The insulator CDI fits diameter 255 mm as per standard IEC 62271-209.

Accessories, to be ordered separately

IPC
Protective cover for insulator CDI.

RKM 145
Installation tool.

OKT
Optical fiber kit for cables with integrated optical fibers in the screen.

For connecting CD 145–170 kV to a transformer
To be ordered separately

CST 170
Corona shield. (optional)

CBT
Contact bolt. (optional)

ECDI
IEC Extension adapter will extend the insert depth to 757 mm, to meet dimensions according to fluid-type design, Figure 3 in IEC 62271-209.

SH 80, SH 130
Tool for peeling and stripping of XLPE-insulation and outer conductive layer.

FK-SH 80, FK-SH 130
Spare peeling blade to be used with SH 80 and SH 130.

IK-SH 80, IK-SH 130
Spare stripping blade to be used with SH 80 and SH 130.

SLK-SH 80, SLK-SH 130
Slot knife for peeling and stripping tool SH80 and SH130. To be used to make the slot in the XLPE-insulation of the cable.

BSL-SH 130
Base plate for slot knife SLK-SH 130 and stripping blade IK-Sh 130.

JSA, SCK
Earthing kit, see page 2/30

* NB: if earthing kit is required, this increases the cable outer diameter Ø by 20 mm.