Outdoor cable termination
APED 52–84 kV

Use
Suitable for outdoor and indoor installations in which the termination is to be used as a fixed connection point.

Standard
Meets the requirements of:
- IEC 60840
- IEEE 48

Design
The cable termination consists of a composite or porcelain insulator fitted on a box body made of aluminium.

The electrical stress control component is a premolded rubber stress cone. The insulator has sheds of short-long type and is filled with synthetic insulating oil.

The composite insulator is available in grey. The porcelain insulator is available in brown. A post insulator kit which includes three stand-off insulators and a supporting plate used for insulated installation can be included.

A top bolt with a diameter of 30 mm is included in the kit.

Installation
Installation can be simplified by assembling the termination horizontally on the ground before lifting it into place.

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
- Insulator, composite (72.5 kV)
- Insulator, porcelain (52 or 84 kV)
- Top bolt with bolt connection as standard

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Insulation diameter</th>
<th>Cable overall diameter</th>
<th>Max conductor cross section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uₜ kV</td>
<td>min mm</td>
<td>max mm</td>
<td>max Ø mm</td>
</tr>
<tr>
<td>52, 72.5, 84</td>
<td>25</td>
<td>66</td>
<td>86</td>
</tr>
</tbody>
</table>
Technical specification and accessories
APED 52–84 kV

Max. permissible force acting on the top bolt, horizontally and vertically: 2000 N.

Attachment to bracket for insulated installation
Three 18 mm holes for M16 bolts.

Attachment to beam
Three 14 mm hole for M10 bolts.

There are two versions of insulators for APED 52–84 kV:
− 72 kV with suffix P: Composite insulator with grey silicone rubber sheds and a fiberglass reinforced epoxy resin hollow core. Light-weight and less sensibility for outer damages.
− 52 and 84 kV with suffix B: Brown porcelain in classic design.

There are two versions of insulators for APED 52–84 kV:

<table>
<thead>
<tr>
<th>Voltage U_m (kV)</th>
<th>Insulator</th>
<th>Designation</th>
<th>Creepage distance</th>
<th>Dimensions</th>
<th>Net weight</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>min (mm)</td>
<td>L (mm)</td>
<td>Ø (mm)</td>
</tr>
<tr>
<td>72</td>
<td>Composite</td>
<td>APED 722 P</td>
<td>2330</td>
<td>950</td>
<td>270</td>
</tr>
<tr>
<td>52</td>
<td>Porcelain</td>
<td>APED 521 B</td>
<td>1340</td>
<td>645</td>
<td>267</td>
</tr>
<tr>
<td>84</td>
<td>Porcelain</td>
<td>APED 843 B</td>
<td>2835</td>
<td>1040</td>
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Inclination up to 30°.

GAP-APED
Rod gap.

Accessories, to be ordered separately

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JSA* Earthing kit for cable with metallic sheath, e.g. lead. Not needed if cable has only Cu-wire screen.

SCK* Screen connection for Al-foil (APL) radial waterproof cable. Not needed if cable has only Cu-wire screen.

* NB: if earthing kit is required, this increases the cable outer diameter Ø by 20 mm.
Applications and accessories
APED 52–84 kV

Inclination up to 30°.

GAP-APED
Rod gap.

Accessories, to be ordered separately

PIU-APED
Post insulator kit for insulated screen/sheath installation.

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