Retrofit line
Any termination can become dry:
Retrofit for modern networks

Networks have to be maintained, modified, modernised and repaired. Only with foresight can emerging risks be reduced to a minimum.

PFISTERER offers a customised solution for terminations that have to be replaced, with its proven dry product portfolio as a Retrofit version.

Whether in the substation, with integrated surge arrester, as a flexible solution or on the transmission tower, dry outdoor terminations are ready to modernise networks in the long term – for voltage levels from 123 to 170 kV tested to IEC 60840.

Retrofit facts

- Using existing XLPE/EPR-insulated high-voltage cables from 300 mm² up to 2500 mm²
- ESF/EST has proven reliability and advantages compared to fluid-filled terminations:
  - Easy installation
  - No risk of leakage
  - Oil and gas free
  - Explosion-resistant
  - Low weight

Termination and surge arrester in one is also available as EST SUB SA/C (SA specifications according to customer requirements)
Customised replacement

Engineering the solution according to customer requirements
- Cable data
- Details of termination to be replaced
- On-site situation

SICON inside

A special SICON connector creates a reliable connection between cable and line.

Available Retrofit variants [ESF, EST, EST SUB, EST SUB SA/C]

<table>
<thead>
<tr>
<th>$U_m$ [kV]</th>
<th>LI [kV] withstand voltage according to IEC 60840</th>
<th>Power frequency withstand voltage [kV/15 min]</th>
<th>Pollution class according to IEC 60815 / IEC 60815-3 [mm/kV]</th>
</tr>
</thead>
<tbody>
<tr>
<td>123</td>
<td>550</td>
<td>160</td>
<td>IV / e</td>
</tr>
<tr>
<td>145</td>
<td>650</td>
<td>190</td>
<td>III.IV / d,e</td>
</tr>
<tr>
<td>170</td>
<td>750</td>
<td>218</td>
<td>III.IV / d,e</td>
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