Composite Line-Posts

- HTV Silicone Rubber, Generation III
- Modular System
- High Strength Solid Epoxy FRP Rod
- Voltage Class: 1 – 550 kV
  (>500kV in parallel unit arrangements)
- Product Standards: IEC 61952, ANSI C29.17, ANSI C29.18
- Experience: 40 years

Main advantages

- Enables Compact OHTL Design
- Braced Applications offer Extra High Strength
- Superior Pollution Performance
  (Hydrophobicity Transfer Mechanism)
- Earthquake Resistant
- Vandalism Proof
- Fail-Safe Arrangements (Bendable Bases)
- Able to withstand Extreme Dynamic and Impact Loads
- Light Weight: Easy Transport, Handling, Installation
- Flexible in Design (Modular System)
- Technology proven since more than 40 years

References

- 69 – 230 kV USA, various utilities
- 420 kV ESKOM Compact Line “Palmiet-Stikkland”
  (braced twin post design, crossarm)
- 123 kV SEC, Saudi Arabia
- 145 – 245 kV Iberdrola, Spain
- 123 kV CEGEDEL, Luxembourg
- 123 kV PSE, Poland
- 24 – 36 kV ENDESA, Iberdrola, FESCA, Spain
- 15 kV German Railways and distribution lines of German utilities

Designs

<table>
<thead>
<tr>
<th>Shank Ø [mm]</th>
<th>Shank Ø [inch]</th>
<th>Pollution Classes* [kV]</th>
<th>Maximum Cantilever Moment [kN.m]</th>
<th>Uₘ*** [kV]</th>
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<tbody>
<tr>
<td>36.8</td>
<td>1.45</td>
<td>12 – 31 mm / kV</td>
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<td>550</td>
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<td>130</td>
<td>5.12</td>
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<td>6.69</td>
<td>12 – 31 mm / kV</td>
<td>&gt;50</td>
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</tbody>
</table>

* Higher specific creepage distance available, e.g. 40 mm / kV
** for SCI (specified cantilever load)
*** Typical max. system voltage for single unit arrangement

End Fittings

- Anchor base for fixed and bendable cross plates
- Trunnion (Horizontal Clamp Top)
- 2-Hole Blade
- Flanges (IEC and ANSI)
- Special Fittings (Clevis, Tongue etc.)
- Tailormade (Customer) end fittings