

## 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.

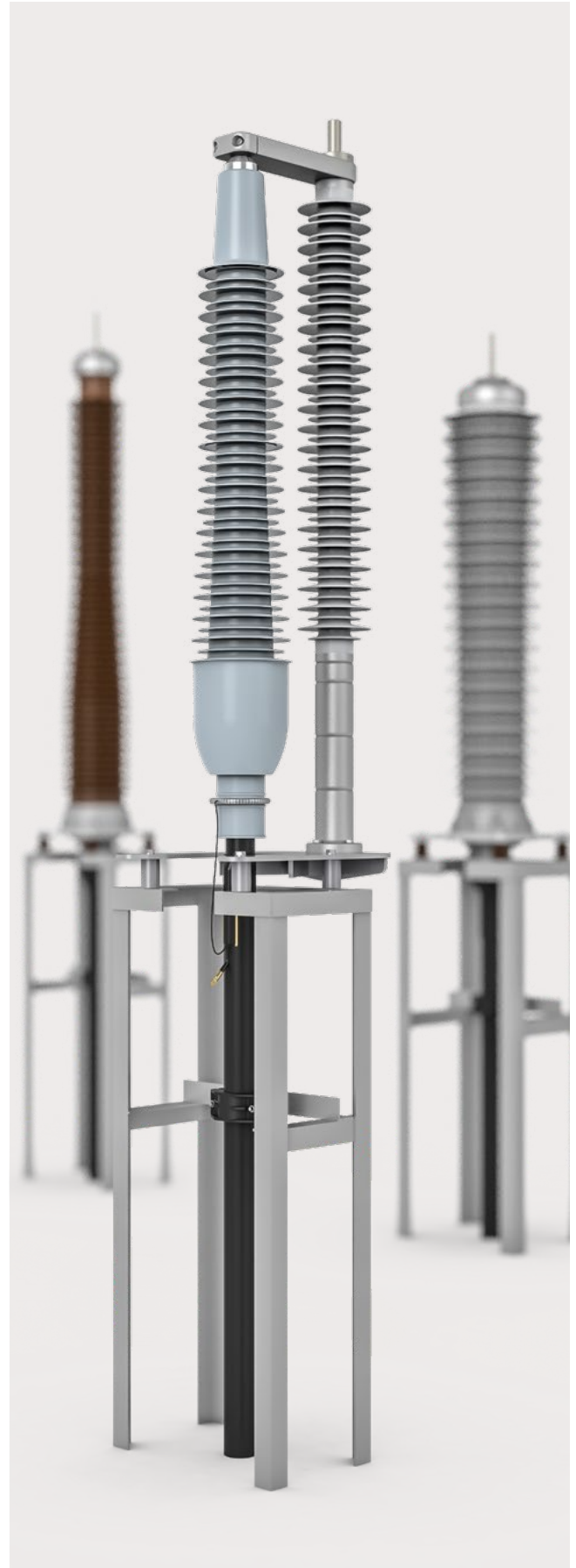
Whether in the substation, with integrated surge arrester, as a flexible solution or on the transmission tower, dry outdoor terminations are ready to modernise networks in the long term – for voltage levels from 123 to 170 kV tested to IEC 60840.

### Retrofit facts

- Using existing XLPE/EPR-insulated high-voltage cables from 300 mm<sup>2</sup> up to 2500 mm<sup>2</sup>
- 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

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



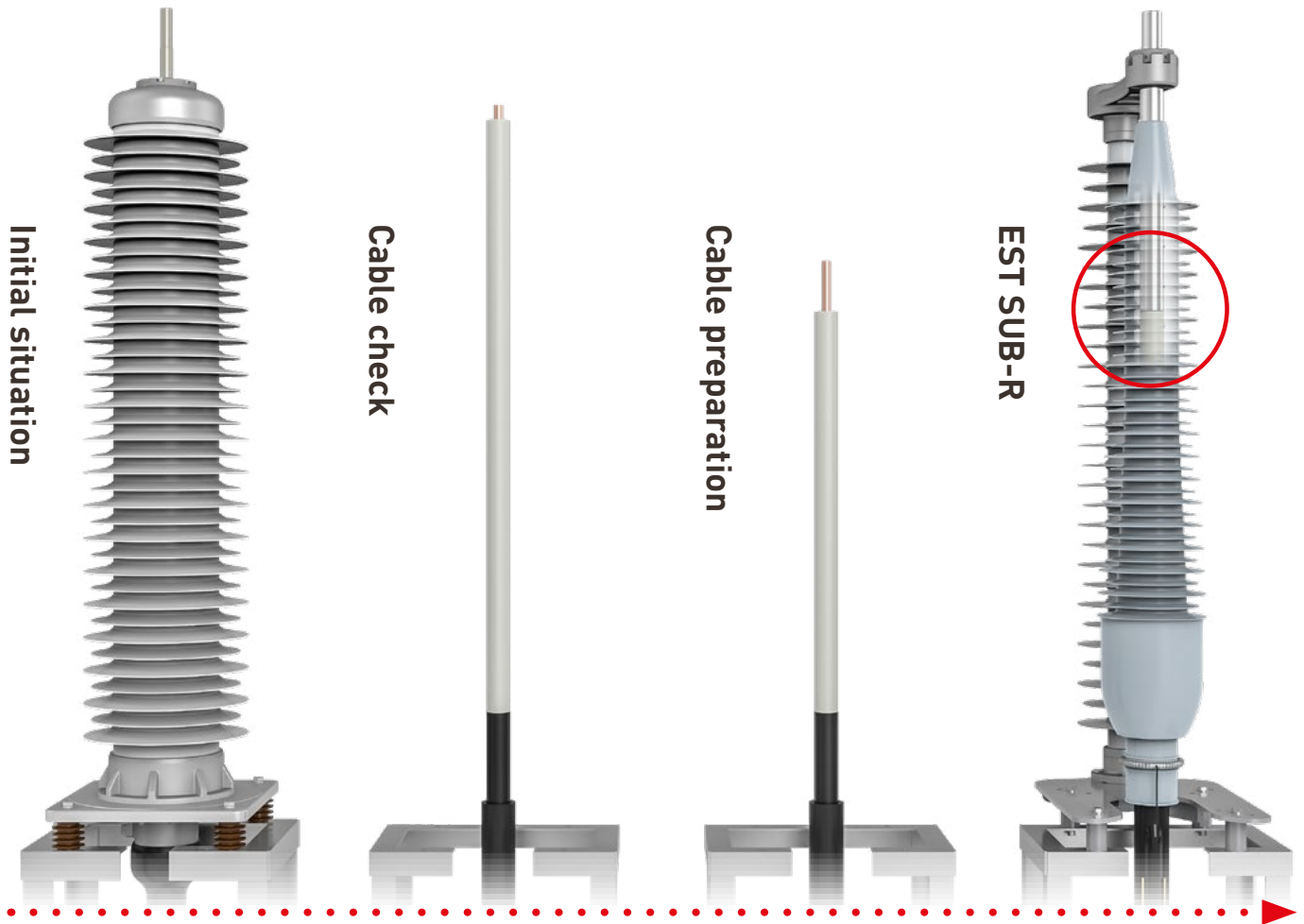
## Customised replacement

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)

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