A.6.5.

Plug-in type connection techniques using HV-connex on encapsulated components in high-voltage equipment up to $U_m = 245$ kV

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For 110 kV cables with XLPE insulation now in increasing use, new compact cable termination systems have been available since early 1996. The proposed cable termination system Size 5-S has filled a gap, for connection of the new series of transformers, joint boxes and gas-insulated switchgear to the cable sections, using an adequate connection technology in a space-saving way and allowing secure and rapid assembly according to IEC 60859 for dry type cable connection. The conventional wet-installation sealing ends according to IEC 60859 for fluid filled cable connection with their assembly expenditure will be replaced in the medium term. In the meantime, more than 2000 of these plug-in dry-type cable termination systems are operating worldwide without any problems in cable networks $U_m = 145$ kV.

Following the demand in the market, we have developed in 2000 a cable-Termination System size 6-S for a rated voltage of 245 kV and a cable cross section up to 1600 mm².

The compact HV separable cable connector consisting of preassembled factory-inspected components permits shorter assembly times, simple working procedures and more reliable assembly, thus contributing to a safer connecting technique at the 245 kV.