
A.5.4.

Development of prefabricated joint for 500 kV XLPE cable (part2)

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The design and the initial electric performance of the prefabricated joint(PJ) for 500 kV XLPE cable was reported at Jicable '99 forum.

The field test was followed by the initial electric performance tests as the final stage to confirm long-term aging performance.

This paper reports the way of analysis of thermo-mechanical characteristics of PJ and results of the long-term field test conducted with its analysis results.

The results of the field test indicate the excellent electric and mechanical performance. The development of compact PJ for 500 kV XLPE cable to enable us to construct the long-distance transmission line in a short period is completed.