Performance Comparison of High-Precision Cold Joints and Traditional Cables

Therefore, in this study, a digital model is constructed on the basis of thermal-flow coupling and measurable data, and an ampacity evaluation method is proposed. Based on the ...

This study is conducted to compare and evaluate thermomechanical stresses of four different types of interfaces in power cable accessories. This study proposes a numerical method ...

To monitor the real-time temperature of cable joint, the transient analyses were performed with three different approaches including thermal network, finite element method (FEM) and test data mining ...

Discussion about the main factors affecting the performance of MV cable joints. Cable joints (CJs) are essential components of power systems, enabling cable network extension and repair. Their design ...

HKSJ Three Cores application Straight through joints Type HKSJ are designed to cover 1core and 3-core plastic insulated cables (with PVC,PE, XLPE, EPR outer sheath) with steel wire/tape ar. our, ...

Based on the model, an improved thermal rating method for the cable joint was proposed, which was implemented with monitored surface temperature and load data.

This is the world"s first achievement of factory expansion, cold shrinkable joints with ultra-high voltage rating. This paper reports on the first application of this factory expansion, cold shrinkable joint to ...

This paper explores the influence of wind speed, wind direction, and the environment on the heat dissipation performance of cable joints by applying a single-phase flow field to the air ...

This paper summarises the investigations carried out by the authors on traditional and member-rotated T- and X-joints made of cold-formed S900 and S960 steel grades tubular members ...

Several types of cable joints are widely utilized in high voltage applications, each offering distinct advantages and unique construction methods. This section examines three primary types: heat ...

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