

Many researchers have investigated the electro-thermal analysis of Optical Ground Wire (OPGW) cables, contributing valuable insights into the cable's behavior under various conditions.

In our work, electrical and thermal analysis for three types of OPGW cables are carried out as well as a comparison of the cables behavior under short-circuit regime.

In this paper a comparative electrical and thermal analysis between two different types of cables, both with 14 wires on the armor, is made. The first model is an OPGW with steel wires in the armor, ...

This paper investigates the thermodynamics of OPGW after the occurrence of short circuits, with a primary focus on temperature increase and its implications for the optical fiber component after ...

In this study, it was demonstrated the possibility of monitoring, in a distributed form, the temperature in an OPGW cable in a 230 kV transmission line (TL) composed of three different optical ...

OPGW tests shall be in accordance with applicable standards or agreements between purchaser and manufacturer. As a general rule the tests will be performed according IEC 60794-4-10. However, if ...

The attenuation stability of optical fibres integrated in optical ground wire (OPGW) cables over temperature and time is of paramount importance in the planning of long distance links.

This document analyzes the electrical and thermal performance of optical ground wire (OPGW) cables under short circuit conditions. It compares two cable designs: a typical OPGW with steel wires in the ...

In this paper, the thermal stability of 8 different types of OPGW under lightning strike and power frequency short circuit fault is simulated, and the following conclusions are drawn:

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