



Project report Test sequence for aluminum-steel conductor rope

Project report for the test sequence for an aluminum-steel conductor rope for power lines
Type ASHT 19.6-216/33-1 and the corresponding fittings

The ASHT 19.6-216/33-1 conductor rope is a new development of a compact, high-temperature, aluminum-steel conductor for power lines for which a test program will be developed.

The manufacturer of this power line is the Volgograd (Russia) subsidiary of Severstal AG.

During the test sequence, both the mechanical and electrical characteristics will be examined in accordance with the required, latest European norms and standards.

During the course of the project, a testing matrix was created, which was discussed beforehand with various noteworthy and accredited testing institutes.

Two internationally renowned companies were commissioned with performing the tests:

The mechanical tests of the conductor rope, including the appropriate fittings, were performed by Spie/SAG in Langen.

FGH Engineering & Test GmbH in Mannheim was commissioned with the electrical tests.

The VDE Testing and Certification Institute carried out this project in conjunction and was responsible for the entire, general project management.

The individual tests defined in the test matrix were performed in a timely manner and successfully completed.

Therefore, the conductor rope meets the basic requirements for the European market.

Details on the execution, test setups, the results as well as expert commentary can be found in the respective test reports attached to this letter.

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