

IEEE Guide for Fault-Locating Techniques on Shielded Power Cable Systems

IEEE Power and Energy Society

Developed by the
Insulated Conductors Committee

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Abstract: Test and measurements, which are performed on shielded power cables to identify the location of a fault, are described. Whenever possible, the limitations of a particular test and measurement to locate a fault are provided and recommendations are made regarding specialized fault-locating techniques. A fault characterization chart is included as an aid to select a fault-locating technique.

Keywords: arc reflection, cable fault locating, cable testing, grounding, IEEE 1234, safety, sectionalizing, thumping, time domain reflectometry, (TDR)

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