

Title (en)
CABLE

Title (de)
KABEL

Title (fr)
CABLE

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Application
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Abstract (en)
[origin: EP1081719A1] The invention relates to power production and electric communication and is useful in identifying the produced, transmitted and consumed electricity, and detecting faults in a cable. The object of the invention is to provide a cable which ensures a more reliable determination of the section of the electrical circuit or the power transmission line over which electricity is supplied from the source to the consumer in the electrical power system, as well as detection of faults in the cable, including line-to-earth faults. The object is attained by a cable comprising, in cross-section, at least two sub-regions of materials, one of the materials being a conductor and the other being a dielectric. At least a part of the section boundary line and/or at least a part of the conductor and/or dielectric sub-regions is in the shape of a fragment of an oblique conical section of a right circular cone. This provides asymmetrical arrangement of strands across the cable cross-section relative to the screen or the longitudinal axis of the cable, and enhances the difference between electrical frequency characteristics of the cables owing to individual geometric parameters of the cable section. <IMAGE>

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