

Title (en)

POWER CABLE CAPABLE OF DETECTING FAILURE

Title (de)

STROMKABEL MIT DER FÄHIGKEIT ZUR DETEKTION EINES FEHLERS

Title (fr)

CÂBLE D'ALIMENTATION CAPABLE DE DÉTECTER UNE DÉFAILLANCE

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Application

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Abstract (en)

[origin: WO2007111389A1] Disclosed herein is a power cable capable of detecting failure. The power cable in accordance with one embodiment of this invention includes a conductor, and an auxiliary line which is inserted into an inner layer provided between the conductor and an outermost layer and is installed to extend in a longitudinal direction in a spiral arrangement. The auxiliary line is made of an optical fiber, and the thickness of the auxiliary line is determined so that the auxiliary line is cut or deformed by a force sufficient to cause damage to the power cable. Preferably, pitch of the auxiliary line is 30mm or less. Further, the inner layer corresponds to an anti-corrosive layer which is formed to protect against external impact or corrosion, or a polyethylene sheath which covers an insulator covering the conductor.

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