

Title (en)  
ELECTRICAL CABLE

Title (de)  
ELEKTROKABEL

Title (fr)  
CÂBLE ÉLECTRIQUE

Publication  
**EP 3180794 A1 20170621 (DE)**

Application  
**EP 15750696 A 20150810**

Priority  
• CH 12132014 A 20140811  
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Abstract (en)  
[origin: WO2016023872A1] The invention relates to an electrical cable for supplying aircraft and similar devices with alternating current having at least partially higher frequencies of preferably 400 Hz. The cable is provided with a central neutral and/or return conductor (1) and at least six phase conductors (2a, 2b, 3a, 3b, 4a, 4b) arranged in a concentrically distributed manner about same, wherein every phase is distributed on two symmetrically opposing phase conductors (2a, 2b, 3a, 3b or 4a, 4b). The neutral and/or return conductor (1) is formed, in a very space-saving manner and with low inductivity, by preferably six individually insulated compact neutral wires (16), the total cross-section of which approximately corresponds to the cross-section of an individual solid neutral wire. In this way, with six-fold redundancy, the risk of a neutral wire failure is reduced, without diminishing the electrical properties with the inductive voltage drop.

IPC 8 full level  
**H01B 7/04** (2006.01)

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See references of WO 2016023872A1

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