

Title (en)
low and middle voltage electric cable

Title (de)
elektrische Hochspannungs- und mittelspannungskabel

Title (fr)
Câble électrique à moyenne ou haute tension

Publication
EP 2498263 B1 20141119 (FR)

Application
EP 12158603 A 20120308

Priority
FR 1151892 A 20110308

Abstract (en)
[origin: EP2498263A1] The medium or high voltage electric cable (1) comprises an electric conductor (2), a first semiconducting layer (3) surrounding the electric conductor, a second electrically insulating layer (4) surrounding the first semiconducting layer, and a third semiconducting layer (5) surrounding the second electrically insulating layer. The layers are crosslinked layers obtained from a crosslinkable composition including 50-100 parts by weight (pbw) of polyolefin and aliphatic peroxide such as crosslinking agent. The composition comprises an aromatic compound including an aromatic ring. The medium or high voltage electric cable (1) comprises an electric conductor (2), a first semiconducting layer (3) surrounding the electric conductor, a second electrically insulating layer (4) surrounding the first semiconducting layer, and a third semiconducting layer (5) surrounding the second electrically insulating layer. The layers are crosslinked layers obtained from a crosslinkable composition including 50-100 parts by weight (pbw) of polyolefin and aliphatic peroxide such as crosslinking agent. The composition comprises: an aromatic compound including an aromatic ring; a reactive single function adapted to its grafting with the polyolefin; and a crosslinking coagent having identical or different reactive functions, which are adapted to be grafted with the polyolefin and to be crosslinked with the polyolefin and are a vinyl function of $\text{CH}_2=\text{CH}-$. The crosslinked layers are electrically insulating layers.

IPC 8 full level
H01B 3/44 (2006.01)

CPC (source: EP KR)
H01B 3/441 (2013.01 - EP KR); **H01B 9/027** (2013.01 - KR); **H01B 13/06** (2013.01 - KR); **H01B 13/22** (2013.01 - KR)

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