Title (en)
Medium- or high-voltage electrical cable

Title (de)
Mittel- oder Hochspannungsstromkabel

Title (fr)
Câble électrique à moyenne ou haute tension

Publication
EP 2498264 B1 20130807 (FR)

Application
EP 12158597 A 20120308

Priority
FR 1151869 A 20110308

Abstract (en)
[origin: EP2498264A1] The medium or high voltage electric cable (1) comprises an elongated conductive member (2) surrounded by a polymeric layer (3, 4, 5). The polymeric layer is a non-crosslinking layer obtained from a composition including a thermoplastic polymer (50-100 parts by weight) such as monomodal polyolefin having a capillary viscosity (eta) of 0.80 Pa.s at 170[deg] C and at 230[deg] C with a shear of 0.1 s -> 1>. A density of the thermoplastic polymer at 23[deg] C is 941 kg/m 3>, and a melting temperature of the thermoplastic polymer is 130[deg] C. The medium or high voltage electric cable (1) comprises an elongated conductive member (2) surrounded by a polymeric layer (3, 4, 5). The polymeric layer is a non-crosslinking layer obtained from a composition including a thermoplastic polymer (50-100 parts by weight) such as monomodal polyolefin having a capillary viscosity (eta) of 0.80 Pa.s at 170[deg] C and at 230[deg] C with a shear of 0.1 s -> 1>. A density of the thermoplastic polymer at 23[deg] C is 941 kg/m 3>, and a melting temperature of the thermoplastic polymer is 130[deg] C. A ratio of weight average molecular weight of the thermoplastic polymer and number average molecular weight of the thermoplastic polymer is 5-7. A melt flow index of the thermoplastic polymer is 0.1-2 g/10 minutes. The layers are crosslinked layers, which are electrically insulating layers.

IPC 8 full level
H01B 7/29 (2006.01)

CPC (source: EP)
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