

Title (en)
Cable shielding

Title (de)
Kabelabschirmung

Title (fr)
Blindage de câble

Publication
EP 1076343 A1 20010214 (EN)

Application
EP 99115171 A 19990813

Priority
EP 99115171 A 19990813

Abstract (en)
An electrical cable (10) with a core (20) and a shield (30) surrounding the core (20) is disclosed. The shield (30) is made up of a first shielding layer (40) surrounding the core (20) which is made of conductive metal wire, a first conducting layer (50) surrounding the first shielding layer (40) which is made of semi-conducting expanded polytetrafluoroethylene (ePTFE), a second shielding layer (60) surrounding the first conducting layer (50) which is made of a metallised fabric, a second conducting layer (70) surrounding the second shielding layer (60) which is also made of semi-conducting ePTFE, and a third shielding layer (80) surrounding the second conducting layer (70) which is also made of conductive metal wire. The semi-conducting ePTFE is made in the disclosed embodiment of graphite-filled ePTFE and the metallised fabric of copper-coated polyamide fabric. The electrical cable (10) of the invention has a flex-life of at least 1.2 million cycles and a shielding effectiveness of more than 80 dB at 1 GHz.
<IMAGE>

IPC 1-7
H01B 11/10

IPC 8 full level
H01B 11/10 (2006.01)

CPC (source: EP)
H01B 11/10 (2013.01)

Citation (search report)
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• [A] US 4486252 A 19841204 - LLOYD RICHARD B [US]

Cited by
CN108538460A; CN104036868A; EP2094773B1; EP2094773B2

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