

Title (en)
Isolated aerial cable with lightwaveguide

Title (de)
Isoliertes elektrisches Freileitungskabel mit Lichtwellenleiter

Title (fr)
Câble aérien isolé comportant un guide d'onde optique

Publication
EP 0996014 B1 20050112 (DE)

Application
EP 99121001 A 19991020

Priority
DE 29818646 U 19981020

Abstract (en)
[origin: EP0996014A1] An insulated overhead line cable has bundled stranded metal wire conductors surrounded by a dielectric sheath (3), the wires (1, 2) adjacent the sheath (3) having a non-round cross-section for forming an almost gap-free conductor face (4) adjoining the sheath (3). The cable contains a metallic bundle core (5) with one or more integrated light guides (6), the core (5) being stranded with enclosing wires (2) which are pre-profiled to form a segmented, electrically conductive sleeve (7). Preferably, the sheath (3) consists of cross-linked (especially flame cross-linked) polyethylene and the conductors consist of aluminium or an aluminium alloy.

IPC 1-7
G02B 6/44

IPC 8 full level
G02B 6/44 (2006.01); **H01B 9/00** (2006.01)

CPC (source: EP)
H01B 9/005 (2013.01)

Citation (examination)
JP H09219117 A 19970819 - FUJIKURA LTD

Cited by
CN105679451A; GB2599555A; GB2599555B; WO2020264498A1

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