

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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