

Title (en)
ELECTROOPTICAL COMMUNICATIONS AND POWER CABLE

Title (de)
ELEKTROOPTISCHES KOMMUNIKATIONS-UND ENERGIEKABEL

Title (fr)
CABLE DE COMMUNICATION ET DE PUISSANCE ELECTROOPTIQUE

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Abstract (en)
[origin: WO2007006167A1] The invention relates to an electrooptical communications and power cable (24) comprising at least one light waveguide (10), which is arranged in a central multifibre bundle (20) consisting of a smooth flexible metal tube (18) and provided with a primary jacket (16). Two layer (26, 32) of stranded metal wires are extended coaxially to said multifibre bundle (20). The metal wires are also used for relieving a traction and /or transversal load. The internal metal wire layer (26) consists of metal wires (28) exhibiting a good electric conductivity. The external metal wire layer (32) comprises the metal wires (28), which are arranged alternately individually and/or groupwisely and exhibit a good electrical conductivity and metal wires (34) exhibiting a high traction strength. The two wire layers (36, 32) are held at a distance (a) from each other by an insulating layer (30). The inventive communications and power cable (24) is used first of all for an electrooptical power connection between two voltage converters (44, 46) in an intelligent system.

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