

Title (en)

STRING-SHAPED PRODUCT WITH CONNECTING AND/OR FIXING MEANS

Title (de)

STRANGF RMIGES PRODUKT MIT ANSCHLUSS- UND/ODER BEFESTIGUNGSM ITTELN

Title (fr)

PRODUIT EN FORME DE BARRE COMPRENANT DES SYSTEMES DE CONNEXION ET/OU DE FIXATION

Publication

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Application

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Priority

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- CH 8142002 A 20020515

Abstract (en)

[origin: WO03098643A1] The invention relates to an electric cable having connecting means, for instance sensor means, and to a method for the production of said cable. In a preferred embodiment of the invention, the cable is configured as a sensor cable, wherein the lead insulation of the cable has a polymer layer containing a polyamide, a polyolefin or a blend thereof. In said case, the sensor cable can be produced as follows: after extruding the raw cable, the latter is cut into individual cable sections in non-crosslinked state. Said sections are then connected to a sensor in an electrically conductive manner. According to the invention, the housing of the sensor consists of a plastic material that is compatible with the lead insulation and that is radiation crosslinkable, said plastic material containing, for example, at least one polyamide, a polyolefin or a polyethylene. The polymers of the lead insulation and the polymers of the sensor housing disclosed in the invention are selected in such a way that they are crosslinkable with themselves and with one another once the sensor cable has been assembled. If necessary, a compatibilizer (e.g. block copolymer) or a reactive terpolymer enabling connection of functional groups between the layers can also be added to the lead insulation and/or the plastic housing. Finally, the plastic materials of the lead insulation and the sensor housing are crosslinked in a separate crosslinking process under the effect of high-energy electron radiation.

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