

Title (en)  
Composite reinforced electrical transmission conductor

Title (de)  
Verstärkter elektrischer Übertragungsverbundleiter

Title (fr)  
Conducteur électrique de transmission composite et renforcé

Publication  
**EP 1168374 A2 20020102 (EN)**

Application  
**EP 01115164 A 20010622**

Priority  
US 59984700 A 20000622

Abstract (en)  
A composite reinforced electrical transmission conductor cable primarily designed for transmission of electrical signals, such as data signals, telephone signals of any frequency and electrical power of essentially any voltage. A fiber optic cable may also be carried by the core in a preferred embodiment. A splicing arrangement for securing the ends of the cable together is also provided. The cable is comprised of a reinforced plastic composite component which serves as a load bearing component and an electrically conductive component which serves for transmission of the electrical signals carried by the cable. In a preferred embodiment, the cable is comprised of a reinforced plastic composite outer load carrying sheath along with an inner highly electrically conductive core. In this way, the sheath provides the necessary strength and the inner core provides for transmission of the electrical signals. In still further embodiments, strips of reinforced plastic composite can be embedded in an electrically conductive cylindrically shaped cable material. <IMAGE>

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**H01B 7/18**; **H01B 9/00**

IPC 8 full level  
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CPC (source: EP)  
**H01B 7/183** (2013.01); **H01B 9/005** (2013.01)

Cited by  
CN102691879A; CN113808787A; DE102014226543A1; CN114283993A; CN105068186A; CN113077932A; US7179522B2; US9093191B2; US7563983B2; WO2019201611A1; WO2014076476A1; US7438971B2; DE102014226543B4; US7608783B2; US7019217B2; WO03091008A1; US7041909B2; US7060326B2; US7211319B2; US7368162B2; US8022301B2

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