

Title (en)  
Ionomer-insulated electrical connectors

Title (de)  
Elektrischer Vebinder mit ionomerem Isolationsmaterial

Title (fr)  
Connecteur électrique à isolant ionomère

Publication  
**EP 1289064 B1 20060125 (EN)**

Application  
**EP 02018514 A 20020816**

Priority  
• CA 2355972 A 20010824  
• US 96667901 A 20010928

Abstract (en)  
[origin: EP1289064A2] An electrical crimp connector comprises a metallic crimp barrel adapted to receive the bared end portion of an electrical conductor and a heat-shrinkable polymeric sleeve in which the crimp barrel is received. The insulating sleeve is comprised of an ionic polymer derived from the polymerization of an alpha -olefin and an ethylenically unsaturated carboxylic acid , a proportion of whose acid groups have been reacted to create ionic carboxylates of metal ions. The ionic polymer sleeve has high impact toughness, high abrasion and chemical resistance, high resistance to splitting by crimping tools, high degrees of flexibility and transparency, and a relatively low heat shrink temperature, making it more suitable for use in such connectors than sleeves comprised of other materials such as polyamides or polyolefins. <IMAGE>

IPC 8 full level  
**H01R 4/20** (2006.01); **H01R 4/72** (2006.01); **H01R 11/12** (2006.01)

CPC (source: EP)  
**H01R 4/726** (2013.01); **H01R 11/12** (2013.01)

Cited by  
CN113068322A; EP1571887A3; EP1598902A1; US7230214B2; US7442904B2; WO2009122076A3; US8297995B2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

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**EP 1289064 A2 20030305; EP 1289064 A3 20040407; EP 1289064 B1 20060125**; AT E316698 T1 20060215; DE 60208845 D1 20060413; DE 60208845 T2 20061026; MX PA02008092 A 20051004

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