

Title (en)

Modular plug for high speed data transmission

Title (de)

Modulstecker für Hochgeschwindigkeits-Datentransfer

Title (fr)

Prise modulaire pour la transmission de données à haute vitesse

Publication

EP 0716477 A3 19990317 (EN)

Application

EP 95118433 A 19951123

Priority

- GB 9424493 A 19941205
- GB 9506868 A 19950403

Abstract (en)

[origin: EP0716477A2] Shielded modular plug (15) for category 5 applications comprises a plug housing (13) and a wire holder (10). The wire holder comprises a housing (20) with wire receiving cavities (22) extending therethrough, and a base wall extension (35) extending from the housing to a front end (36). The wire holder is assembled to the cable by inserting straightened wire ends into the cavities (22) of the holder and pulling the holder tightly against the twisted pairs of the cable. The wire ends (6) can then be trimmed with the front end (36) acting as the reference. The wire holder and cable ends are then inserted into the cavity (48) of the plug housing until a fully inserted position where the plug contacts (18) are positioned above the wire ends (6), and can be depressed for piercing through the insulation to contact the inner conductors. Due to tightening of the wire holder against the twisted pairs, the length of straightened cable is as short as possible thereby reducing crosstalk interference and enabling higher data transmission speeds. Furthermore, tightening of the wire holder against the twisted pairs ensures that connections are made in a reliable manner with less sensitivity to variations in the assembly procedure. <IMAGE>

IPC 1-7

H01R 23/00

IPC 8 full level

H01R 13/33 (2006.01); **H01R 43/00** (2006.01); **H01R 13/56** (2006.01); **H01R 13/658** (2011.01)

CPC (source: EP KR)

H01R 13/648 (2013.01 - KR); **H01R 24/64** (2013.01 - EP); **H01R 13/56** (2013.01 - EP); **H01R 13/6463** (2013.01 - EP); **H01R 13/6592** (2013.01 - EP)

Citation (search report)

- [A] WO 8601646 A1 19860313 - AMP INC [US]
- [A] DE 9310893 U1 19931014 - CHEN MICHAEL [TW]
- [A] US 4769906 A 19880913 - PURPURA RICHARD M [US], et al
- [A] EP 0175868 A2 19860402 - STEWART STAMPING CORP [US]
- [A] EP 0487893 A1 19920603 - SIEMON CO [US]
- [A] US 4995828 A 19910226 - GOODMAN DAVID S [US], et al

Cited by

EP0948099A1; EP0899823A3; EP0932225A1; EP1206816A4; EP1195854A1; DE19649668C1; FR3032829A1; CN107210095A; US6280232B1; US9735499B2; US6561838B1; US9949415B2; US6692307B2; US7722410B2; WO0143231A3; WO0016451A1; WO2007068875A1; WO2016132065A1; EP3259969B1

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