Title (en)

CONNECTOR FOR DIFFERENTIAL DATA TRANSFER

Title (de)

STECKVERBINDER FÜR DIFFERENZIELLE DATENÜBERTRAGUNG

Title (fr)

CONNECTEUR ENFICHABLE POUR TRANSMISSION DES DONNÉES DIFFÉRENTIELLE

Publication

EP 2603952 A1 20130619 (DE)

Application

EP 11775722 A 20110810

Priority

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Abstract (en)

[origin: WO2012041310A1] The plug connector illustrated here is in the form of a round plug connector and, on its connection side, is intended to make contact with printed circuit boards. In order to transmit a plurality of independent, differential signals, electrical contacts (30), which are accordingly arranged in pairs, are arranged in the plug connector (1, 2), wherein the invention proposes that each of the, in this case four, signal pairs be arranged, such that they are insulated from one another by a cruciform structure, within a round body (40) which surrounds the structure. To this end, an electrically conductive cruciform shield (10) is provided, this cruciform shield being surrounded by a likewise cruciform contact support (20), accommodation grooves (23) for holding the electrical contacts (30) being provided in the obliquely formed inner edges (22) of said contact support. The electrically non-conductive round body (40) is pushed over this cruciform arrangement, said round body ultimately being surrounded by an electrically conductive housing (75) once again. In this case, provision is made in the angled round plug connector (1) for the connection ends (32.1) of the electrical contacts (30) to be exactly aligned with a printed circuit board (65) by means of a positioning aid (50) which is attached to the round body (40). In this case, the positioning aid (50) has corresponding holes for the connection ends (32.1) of the electrical contacts (30), said holes corresponding to soldering holes in the printed circuit board (65).

IPC 8 full level

H01R 4/02 (2006.01); **H01R 12/70** (2011.01); **H01R 12/72** (2011.01); **H01R 13/50** (2006.01); **H01R 13/504** (2006.01); **H01R 13/506** (2006.01); **H01R 13/631** (2006.01); **H01R 13/646** (2011.01); **H01R 13/6471** (2011.01); **H01R 13/6583** (2011.01); **H01R 13/6585** (2011.01); **H01R 13/6587** (2011.01); **H01R 13/6596** (2011.01); **H01R 13/74** (2006.01); H01R 107/00 (2006.01)

CPC (source: EP KR US)

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Citation (search report)

See references of WO 2012041310A1

Designated contracting state (EPC)

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