

Title (en)

CONTROLLED-IMPEDANCE CABLE TERMINATION USING COMPLIANT INTERCONNECT ELEMENTS

Title (de)

KABELABSCHLUSS MIT KONTROLLIERTER IMPEDANZ MIT FLEXIBLEN VERBINDUNGSELEMENTEN

Title (fr)

EXTRÉMITÉ DE CÂBLE À IMPÉDANCE CONTRÔLÉE UTILISANT DES ÉLÉMENTS D'INTERCONNEXION CONFORMES

Publication

EP 3216091 A1 20170913 (EN)

Application

EP 14905418 A 20141106

Priority

US 2014064216 W 20141106

Abstract (en)

[origin: WO2016072986A1] An apparatus (10) for terminating a controlled-impedance cable (30) using compliant electrical contacts (12, 14) to provide an interface to another device (2). The terminator (10) includes a nonconductive anchor block (16) for securing the cable (30). A conductive ferrule (330) is installed on the cable shield (36) and the cable end (332) is dressed. The ferrule/cable assembly (8) is installed in a through hole (334) in the anchor block so the cable end (332) is flush with the anchor block face (20). An insulating or conductive plate (18) mounted to the anchor block (16) holds the signal contact (12) that electrically connects the center conductor (32) to the device (2) and optional ground contacts (14) that electrically connect the ferrule (330) to the device (2). The ground contacts (14) surround the signal contact (12) in a pattern that closely mimics the impedance environment of the cable (30). When using a conductive plate (18), the signal contact (12) is insulated from the plate (18) by an insulating centering plug (90) or a non-conductive coating.

IPC 8 full level

H01R 13/639 (2006.01); **H01R 13/6473** (2011.01)

CPC (source: EP)

H01R 12/714 (2013.01); **H01R 24/44** (2013.01); **H01R 9/0515** (2013.01); **H01R 9/0518** (2013.01); **H01R 12/75** (2013.01); **H01R 13/2435** (2013.01); **H01R 13/6633** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2016072986 A1 20160512; CN 107078442 A 20170818; EP 3216091 A1 20170913; EP 3216091 A4 20180711; JP 2017534142 A 20171116

DOCDB simple family (application)

US 2014064216 W 20141106; CN 201480083225 A 20141106; EP 14905418 A 20141106; JP 2017518160 A 20141106