

Title (en)
ASSEMBLY COMPRISING A CONTROLLED-IMPEDANCE CABLE TERMINATION WITH COMPENSATION FOR CABLE EXPANSION AND CONTRACTION AND A CABLE

Title (de)
ANORDNUNG MIT KABELANSCHLUSS MIT KONTROLLIERTER IMPEDANZ MIT KOMPENSIERUNG DER KABELEXPANSION UND - KONTRAKTION UND EINEM KABEL

Title (fr)
ENSEMBLE COMPRENANT UNE TERMINAISON DE CÂBLE À IMPÉDANCE COMMANDÉE AVEC COMPENSATION DE D'EXPANSION ET DE CONTRACTION DE CÂBLE ET UN CÂBLE

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Application
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Abstract (en)
[origin: WO2015160802A1] A controlled-impedance cable terminator (10) that minimizes the effects of cable expansion and contraction on impedance matching. The terminator (10) has an anchor block (18), an expansion/contraction compensator (ECC) (16) attached to the cable (40), a compliant signal contact (12) for making the electrical connection between the cable center conductor (42) and the electrical device (2). The ECC (16) has an electrically-conductive ferrule (62) with a bore (64). The ferrule bore (190) may be formed in the anchor block (18) instead of in a separate ferrule (38). The cable shield (46) is attached at the bore (64). A solid dielectric insert (74) fits into the ferrule bore (64). An electrically-conductive center pin (78) fits into a bore (76) in the dielectric insert (74) and has a bore (80) that accepts the center conductor (42) such that the center conductor (42) can expand and contracting while maintaining electrical contact with the center pin (78). A plate (20) abuts the anchor block face (34) and holds the compliant contacts (12, 14) in through apertures (352).

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