Title (en)

COAXIAL CONNECTOR

Title (de)

KOAXIALSTECKVERBINDER

Title (fr)

CONNECTEUR ENFICHALBE COAXIAL

Publication

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Application

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Priority

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Abstract (en)

[origin: CA2689127A1] The invention relates to a coaxial connector (10, 100) comprising an oute r conductor having a first plug-side end and a second plug-side end, axially opposite the first plug-side end of the outer conductor, and an inner condu ctor (12) having a first plug-side end and a second plug-side end, axially o pposite the first plug-side end of the inner conductor. The invention is cha racterized in that the outer conductor has two separate outer conductor part s (14, 16), a first outer conductor part (14) forming the first plug-side en d of the outer conductor and a second outer conductor part (16) forming the second plug-side end of the outer conductor. The two outer conductor parts (14, 16) of the outer conductor are arranged and configured in such a manner that they are mobile relative to each other in the axial direction, the oute r conductor being configured as an outer conductor bellows (18) between the two outer conductor parts (14, 16). A first elastic spring element (22) is p rovided on the outer conductor and acts upon the two outer conductor parts (14, 16) of the outer conductor in the axial direction, driving them away fro m each other. The outer conductor bellows (18) is configured in such a manne r that upon a change in length of the outer conductor bellows (18) a changin g capacitance of the outer conductor bellows (18) is compensated by a corres pondingly changing opposite inductance of the outer conductor bellows (18) i n such a manner that the characteristic impedance of the coaxial connector (10, 100) remains substantially constant upon a change in length of the outer conductor bellows (18).

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