

Title (en)
COAXIAL CONNECTOR

Title (de)
KOAXIALSTECKVERBINDER

Title (fr)
CONNECTEUR ENFICHALBE COAXIAL

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Application
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Abstract (en)
[origin: CA2689127A1] The invention relates to a coaxial connector (10, 100) comprising an outer 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 conductor (12) having a first plug-side end and a second plug-side end, axially opposite the first plug-side end of the inner conductor. The invention is characterized in that the outer conductor has two separate outer conductor parts (14, 16), a first outer conductor part (14) forming the first plug-side end 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 outer conductor being configured as an outer conductor bellows (18) between the two outer conductor parts (14, 16). A first elastic spring element (22) is provided 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 from each other. The outer conductor bellows (18) is configured in such a manner that upon a change in length of the outer conductor bellows (18) a changing capacitance of the outer conductor bellows (18) is compensated by a correspondingly changing opposite inductance of the outer conductor bellows (18) in 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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