

Title (en)

RADIO-FREQUENCY COAXIAL ELECTRIC CONNECTOR WITH CONTACT ELEMENT

Title (de)

KOAXIALER ELEKTRISCHER HOCHFREQUENZVERBINDER MIT KONTAKTELEMENT

Title (fr)

CONNECTEUR ÉLECTRIQUE COAXIAL RADIOFRÉQUENCE AVEC UN ÉLÉMENT DE CONTACT

Publication

**EP 2961004 B1 20210505 (EN)**

Application

**EP 14753640 A 20140213**

Priority

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Abstract (en)

[origin: EP2961004A1] Disclosed is a radio-frequency coaxial electric connector with a contact element. The contact element (14) is arranged between a plug outer conductor (11) and a socket outer conductor (22), the contact element (14) is cylindrical, the front part of the contact element (14) is divided into a plurality of elastic cantilever beams through axial cut grooves (142), and an annular contact ring (143) is formed at the rear part of the contact element (14); a radial outward raised annular contact (141) is arranged at the front end of each cantilever beam; and the contact element (14) is fixed in a plug first step hole (113) in the plug outer conductor (11) in an interference fit manner through the contact ring (143) at the rear part, and is tightly in elastic contact with the inner wall of a socket first step hole (221) through the annular contacts (141) of the elastic cantilever beams at the front part. The radio-frequency coaxial electric connector can improve the passive intermodulation or three-order intermodulation performance of radio-frequency coaxial connection, reduce the space occupied in the length direction of the connector, improve the impedance matching performance, reduce the standing-wave ratio and improve the sealing performance. ( Fig. 1 )

IPC 8 full level

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CPC (source: EP)

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Cited by

CN109075494A; US10141688B2; WO2017178101A1

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