

Title (en)

Coupling element for the connection of a signal transmission device to a main coaxial line.

Title (de)

Koppelement zum Anschluss einer Signalübertragungseinrichtung an eine koaxiale Hauptleitung.

Title (fr)

Élément de couplage pour le raccordement d'un appareil de transmission de signaux à une ligne principale coaxiale.

Publication

EP 0129820 A2 19850102 (DE)

Application

EP 84106961 A 19840618

Priority

DE 3323143 A 19830627

Abstract (en)

1. Coupling element for connecting a signal transmission device to a coaxial main line (1) with - a connecting piece (14, 15, 16) mounted on said main line, in the path of the main line (1), with which a connection suitable for a signal transmission (20) may be established, characterised in that - a cylindrical section (8) of the external conductor (4) of the coaxial main line (1) is formed by two break points (6, 7) of the external conductor (4) provided at a predetermined distance from one another, - a conductive cylindrical element (9) of the connecting piece (14, 15, 16) spans the section (8), electrically insulated from it, and at its ends is conductively connected to the external conductor (4) of the main line (1) near break points (6, 7) respectively, - there being formed between the section (8) and the internal conductor (2) of the main line (1) a first capacitance (C0) and between the section (8) and the cylindrical element (9) a second capacitance (C1) - and one conductor of the connection of the signal transmission device being connectible to the section (8) and the other conductor being connectible to the cylindrical element (9) via the connecting piece (14, 15, 16).

Abstract (de)

Die Erfindung bezieht sich auf ein Koppelement zum Anschluß einer Signalübertragungseinrichtung an eine koaxiale Hauptleitung (1), beispielsweise eine Busleitung. Zur weitgehenden Verminderung von Störeinflüssen und zur Verbesserung der mechanischen Sicherheit an der Koppelstelle ist die anzukoppelnde Einrichtung über ein gebildetes koaxiales Segment (8) des Außenleiters (4) und über ein das Segment (8) isoliert überspannendes zylindrisches Element (9) kapazitiv an die Hauptleitung (1) angekoppelt. Die Erfindung ist vor allem bei Busankopplungen in lokalen Netzen anwendbar.

IPC 1-7

H01R 17/12

IPC 8 full level

H01R 13/646 (2011.01)

CPC (source: EP)

H01R 24/42 (2013.01); **H01R 2103/00** (2013.01)

Cited by

DE19817575A1; DE102005007589B3; US7510434B2

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0129820 A2 19850102; **EP 0129820 A3 19860319**; **EP 0129820 B1 19881109**; AT E38591 T1 19881115; DE 3323143 A1 19850110; DE 3475147 D1 19881215

DOCDB simple family (application)

EP 84106961 A 19840618; AT 84106961 T 19840618; DE 3323143 A 19830627; DE 3475147 T 19840618