

Title (en)  
Coaxial cable assembly

Title (de)  
Koaxialkabelanordnung

Title (fr)  
Ensemble de câbles coaxiaux

Publication  
**EP 0844621 A3 19990210 (DE)**

Application  
**EP 97115708 A 19970909**

Priority  
DE 19648964 A 19961126

Abstract (en)  
[origin: EP0844621A2] A coaxial cable arrangement including a coaxial cable (K1- K4) for transmission of high-frequency (HF) electromagnetic waves and comprising a tube-shaped outer conductor (2) with a plastics outer sheath (1), and inner conductor (3) and a low-loss dielectric (4) between the outer- (2) and inner-conductor (3), the latter each being realised by a tubular outer-conductor (5,11) and inner-conductor metallic layer (6,8) of high conductivity and applied on a plastics carrier. The thickness of the outer-conductor and inner-conductor metal layer (5,11;6,8) is equal, at least, to the depth of penetration of the electromagnetic waves being transmitted through the coaxial cable (K1-K4). The coupling arrangement for joining the ends of two coaxial cables together comprises two connectors screwable together at their free ends by means of a coupling ring, the connectors being matched to the characteristic impedance of the coaxial cables.

IPC 1-7  
**H01B 11/18**

IPC 8 full level  
**H01B 11/18** (2006.01); **H01R 13/03** (2006.01); **H01R 9/05** (2006.01)

CPC (source: EP)  
**H01B 11/1808** (2013.01); **H01R 13/035** (2013.01); **H01R 9/0503** (2013.01); **H01R 24/44** (2013.01); **H01R 2103/00** (2013.01)

Citation (search report)  
• [A] US 3878485 A 19750415 - ERCULIANI PAOLO  
• [AD] DE 2303564 A1 19730816 - PHILIPS NV

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0844621 A2 19980527; EP 0844621 A3 19990210**

DOCDB simple family (application)  
**EP 97115708 A 19970909**