

Title (en)  
Electrical signal line cable assembly

Title (de)  
Kabelzusammenbau für elektrische Signalleitungen

Title (fr)  
Assemblage de câble pour lignes de signaux électriques

Publication  
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Application  
**EP 97116396 A 19970919**

Priority  
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Abstract (en)  
The invention discloses an electrical signal cable assembly (10, 110, 210, 710) with a plurality of subcable assemblies (20, 120, 220, 320, 620, 720) stacked on each other. Each subcable assembly (20, 120, 220, 320, 620, 720) includes a plurality of coplanar electrical signal conductors (30, 130, 230, 330, 730) encased within an insulator (40a, 40b) and which are separated from each other by a first pitch distance (a), whereby the first pitch distance (a) is between 0,1 mm and 10 mm. The characteristic impedance of the electrical signal cable assembly (10, 110, 210, 710) is in the range of 50 OMEGA to 200 OMEGA . In the preferred embodiment of the electrical signal cable assembly (10, 110, 210, 710) the insulator (40a, 340a, 640a, 740a, 40b, 340b, 640b, 740b) comprises an upper insulator (40a, 340a, 640a, 740a) laminated to a lower insulator (40b, 340b, 640b, 740b) and is made from expanded polytetrafluorethylene. <IMAGE>

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**H01B 7/0892** (2013.01)

Citation (search report)  
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