

Title (en)  
Electrical signal line cable assembly

Title (de)  
Elektrische Signalkabelanordnung

Title (fr)  
Ensemble de câbles de signaux électriques

Publication  
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Application  
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Abstract (en)  
The invention relates to an electrical signal cable assembly (10) having a subcable assembly (40, 60) cylindrically arranged around a central axis (15). The subcable assembly (40, 60) comprises a plurality of flat cables (45), each one of which has a plurality of coplanar electrical signal conductors encased within and separated at a pitch distance (a) from each other by a flat cable insulator (120). The flat cables (45) are either cylindrically braided or cylindrically surfaced about the central axis (15). The flat cable insulator (120) is formed in the preferred embodiment of the invention from an upper insulator (120a) laminated to a lower insulator (120b) and is made from expanded polytetrafluoroethylene (ePTFE).  
<IMAGE>

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• [X] DE 3141636 A1 19830511 - SIEMENS AG [DE]  
• [X] EP 0089541 A1 19830928 - GORE W L & CO GMBH [DE]

Cited by  
US6713673B2; EP3144941A1; EP1246207A1; US2011132660A1; US9340924B2; US8866017B2; WO2014098930A1; US9520209B2

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DOCDB simple family (application)  
**EP 98108529 A 19980511**; AU 3828199 A 19990510; AU 4039599 A 19990510; AU 4140599 A 19990510; AU 4259199 A 19990510; CN 99800680 A 19990510; CN 99800681 A 19990510; EP 9903178 W 19990510; EP 9903179 W 19990510; EP 9903180 W 19990510; EP 9903181 W 19990510; EP 99920860 A 19990510; EP 99924916 A 19990510; EP 99950371 A 19990510; JP 2000548888 A 19990510; JP 2000548889 A 19990510; JP 2000548890 A 19990510; JP 2000548891 A 19990510; KR 20007000219 A 20000110; KR 20007000220 A 20000110