

Title (en)  
HIGH PERFORMANCE FLAT CABLE

Publication  
**EP 0214276 B1 19890802 (EN)**

Application  
**EP 86902117 A 19860304**

Priority  
• US 70793585 A 19850304  
• US 71641785 A 19850327  
• US 71671185 A 19850327  
• US 71677285 A 19850327  
• US 71677985 A 19850327

Abstract (en)  
[origin: WO8605311A1] A local area network cable assembly includes a flat cable (2), a shielded connector (148) and a cable to connector adapter having a body (150) and a ferrule (146). The cable has a plurality of signal conductors (11, 12, 21, 22) positioned within a common plane. Each conductor is surrounded by a foamed first insulating medium (13, 14, 23, 24) and the insulated conductors forming an associated pair surrounded by a core (15, 25) formed of an extruded second insulating medium having a higher dielectric constant. EMI shields (18, 28) surround each core (15, 25) and are in turn surrounded by an outer insulating body (4). The shields are formed from a foil and the outer body (4) secures the overlapping edges (18a, 18b, 28a, 28b) around the core (15, 25). The ends of the shield are axially slit for interconnection by the adapter to the shielded connector. The cable (2) can be used in under the carpet installations and is suitable for balanced transmission of high frequency signals and exhibits high impedance, low cross talk electrical characteristics.

IPC 1-7  
**H01B 7/08**

IPC 8 full level  
**H01B 7/08** (2006.01); **H01R 12/59** (2011.01); **H01R 12/70** (2011.01); **H01R 12/77** (2011.01)

CPC (source: EP)  
**H01B 7/0823** (2013.01); **H01R 12/594** (2013.01); **H01R 12/775** (2013.01)

Cited by  
EP2315217A1; DE202009014294U1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**WO 8605311 A1 19860912**; DE 3664832 D1 19890907; EP 0214276 A1 19870318; EP 0214276 B1 19890802

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**US 8600455 W 19860304**; DE 3664832 T 19860304; EP 86902117 A 19860304