

Title (en)  
High density coax connector.

Title (de)  
Coaxial-Steckverbinder mit hoher Dichte.

Title (fr)  
Connecteur coaxial à haute densité.

Publication  
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Application  
**EP 87310471 A 19871127**

Priority  
• US 11908187 A 19871116  
• US 94593086 A 19861222

Abstract (en)  
The present invention is directed to a multi-pin coax connector assembly (2) having connector housings (22,24,26) made of metal or conductive plastic which serves as a reference ground for all signals. The connector housings (22,24,26) have passages (12,14,16) extending therethrough. Pin and socket terminals (18,20) are insert molded with insulating material (48,90) and are positioned in the passages (12,14,16). The insulating material (48,90) spaces the terminals (18,20) from the conductive connector housing (22,24,26) as well as providing air gaps along most of the length of the terminals (18,20). The air gaps cooperate with the insulating material (48,90) to provide controlled impedance. As the signals travel at a high rate of speed along the terminals (18,20), the terminals (18,20) are bent to minimize the reflection of the signal. The connectors (22,24,26) are provided with power and ground busses (100,102,104,106) along the outside surfaces thereof, the busses (100,104) of the first connector (22,24) making electrical connection with the respective busses (102,106) of the second connector (26). A camming assembly means (118) is also provided to cam the terminals (18,20) of the connectors together, which provides for a positive wipe action as the terminals (18,20) of the connectors are cammed into electrical engagement with each other. The camming assembly means (118) also allows for reduced insertion force of the connectors (22,24,26), as the terminals (18) of one connector (22,24) do not engage the terminals (20) of the other connector (26) until the camming assembly means (118) is operated.

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Citation (search report)  
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