

APPLICATION NOTE

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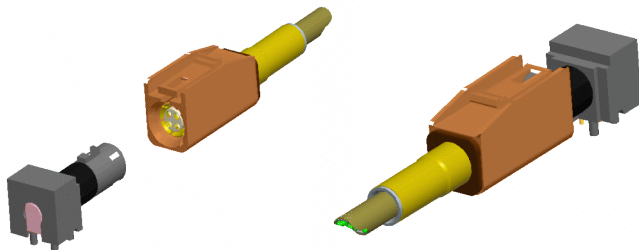
Fakra - Q

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The Challenge

Transmitting high speed data and voice requires a robust interconnect solution along with a contact system which can handle a minimum of 12 Mb/s. Historically, the mini USB 2.0 was the choice of products to fill the customer needs.

Being an off the shelf commercial product, flexibility is not an option when increased robustness and flexibility to handle higher speeds are needed.



The ITT Solution ...

Using a Quadrax contact system inside a Fakra shell, Cannon solved the robust interconnect requirement, increased the data/voice rate to 6 Gb/s, and added various features to enhance the connector for use in the Automotive and Medical Markets. The Fakra - Q has an impedance of 100 Ohms, contact resistance of less than 10 milli ohms, and a DWV value of greater than 1000 V between signal contacts and the outer shell.

Product Features

- Fakra style body, one piece die-cast shell
- Latching and keying features with Color bands
- Anti-tipping board connector
- Plug accepts foil / outer braid cable
- Tape and reel packaging
- Plug designed for crimp or solder terminations

Benefits to the Customer

- Combines the low cost and high reliability of Fakra with the superior performance of the Avionics "Quadrax" interconnect system
- Cable grounding achieved upon mating
- Socket contacts use dual cantilever design and provide ease of assembly
- Cable connector utilizes "closed entry" insulator design to prevent stubbing
- Shells/body mate first for proper contact alignment

Applications

- Medical bed monitoring unit interconnects
- Automotive telematics systems

For application assistance, please contact:

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