

10 Gb/s SOLUTIONS

FOR SPACECRAFT COMMUNICATION NETWORKS

Specifically designed high speed links capable of data rates up to 10 Gbit/s.

- Two 50Ω coaxial cables per transmission line are used and lengths are matched in order to reduce skew to a minimum.
- The connector has a special 100Ω insert for the transmission line. In the case of multi-way connectors each 100Ω insert is isolated from the others. This solution delivers:
 - Low skew (<10 ps)
 - Low crosstalk (<60 dB)

▶ 10Gb/s CONNECTOR EXAMPLES

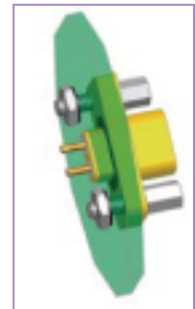
▶ TWO WAY PCB QFX CONNECTOR

Two 100Ω transmission lines.
Hand formable coaxial cable pigtail soldered to a PCB by the user.



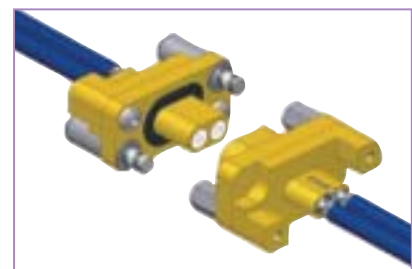
▶ SINGLE WAY PCB PARALLEL GAP CONNECTOR

Single 100Ω transmission line.
Flat conductor welded* to the contact and soldered to a PCB.
*parallel gap electric welding performed by the user.



▶ SINGLE WAY INLINE MATED PAIR

Single 100Ω transmission line.
Two AX2.4 coaxial cables (see below).



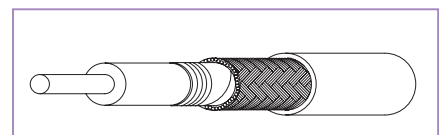
▶ FOUR WAY INLINE MATED PAIR

Four 100Ω transmission lines.



▶ AX2.4 COAXIAL CABLE

Special 50Ω AWG 24 coaxial cable with CELLOFLON® expanded PTFE dielectric.



▲ SINGLE WAY AX2.4 10 GB/S CONNECTOR

▲ AX2.4 COAXIAL CABLE