High Speed Quadrax and New Products/Differential Twinax Contacts

Overview

NEW “Split-Pair” Quadrax Contacts & Cable Assemblies for MIL-DTL-38999, Series III Circular

Amphenol Aerospace offers the high performance interconnect solution for CAT6A type cable. APPLICATIONS:
- 10/100/1000/10GBASE-T Ethernet
- DVI
- USB 2.0
- Serial Rapid IO (up to 3.125 Gbps)
- PCI-Express 2.0
- HDMI 1.3a
- SATA 2.0 (up to 3 GHz)

See pages 227, 228 for more information

Micro D-Twinax Transition Adapters

Amphenol now offers differential twinax transition adapters in smaller sizes that provide matched impedance interconnection to PCB boards. STYLES INCLUDE:
- Plug- standard length and extended length options
- Straight PCB receptacle, 90° PCB receptacle
- Two jam nut receptacle styles - both with standard length and extended length options
- Bushing assembly 90° adapter (used with plug or jam nut receptacle)

See pages 238-240 for more information

DIFFERENTIAL TWINAX CONTACTS

High speed Differential Twinax contacts consist of an outer contact with two inner contacts spaced to form one 100 or 150 Ohm controlled impedance differential pair. See pages 231, 232 for performance data and ordering of Differential Twinax contacts, and consult Amphenol Aerospace for more information.

QUADRAX CONTACTS

- High speed Quadrax contacts consist of an outer contact with four inner contacts spaced to form two 100 or 150 Ohm controlled impedance differential pair.
- Both contacts, when used in Amphenol MIL-DTL-38999 Series III and ARINC type connectors, provide an excellent alternative for harsh environment applications such as:
  - Ethernet 100 Base-T-100 Ohm
  - Gigabit Ethernet 1000 Base-T-100 Ohm
  - Fibre Channel-150 Ohm
  - IEEE1394B FireWire-110 Ohm

Differential Twinax and Quadrax contact options include:
- Crimp or printed circuit board termination
- Established designs to accommodate a variety of cable types and gages
- Ground plane connectors can incorporate quadrax contacts. These connections have conductive inserts that ground the outer conductor of the contact body to the shell of the connector. They accommodate size 8 and 12 shielded contacts of which the size 8 can be quadrax type.

See pages 224-226 for performance data of Quadrax contacts. Consult Amphenol Aerospace for further information needed.

* Requires modified connector to accommodate keyed contacts.