



J-Tech Product Bulletin

Quadrax Contact System

*****J-Tech now offers Quadrax Contacts to our expanding High-Speed RF product lines *****



Product Features:

1. Quadrax contacts consist of a size #8 outer contact geometry with four strategically spaced inner contacts forming two 100 Ohm matched impedance differential pairs with excellent 360 degree shielding.
2. Quadrax contacts provide high data transfer rates, low power consumption, and excellent EMI compatibility.
3. Ideal for Harsh Environment applications when used in conjunction with a Conesys MIL-DTL-38999 Series III, EN2997, and ARINC type connectors to achieve Ethernet 100 Base-T and Gigabit Ethernet 1000 Base-T signal capabilities.
4. Both pin and socket contacts feature a protruding alignment key to properly orient the contact within the connector cavity.
5. Termination type is offered in Crimp or PC tail.

Contact Performance:

1. One contact completes a full duplex 100Mbps Ethernet link and exceeds ISO/IEC 11801 Category 6 requirements:
 - a. **NEXT Cross-Talk:** >46 db @ 250 MHz
 - b. **Return Loss:** >16 db @ 250 MHz
 - c. **Shield Effectiveness:** >36 db @ 80 MHz
2. Typical Electrical Performance:
 - a. **Bandwidth:** Up to 3 Gigahertz
 - b. **Data Rate:** Exceeding 2 Gbits/sec
 - c. **Voltage Rating:** 500 Vrms @ sea level
 - d. **Dielectric Withstanding Voltage:** Up to 1000VAC rms between inner contacts and up to 500 VAC rms between inner and outer contacts.
 - e. **Characteristic Impedance:** 100 \pm 10 Ohms
3. Operating Temperature: -65°C to +200°C
4. Gold plating of 50 micro-inches minimum to ensure low contact-to-contact resistance even after 500 matings.



For more information please consult the factory at www.Conesys.com



J-Tech Quadrax Application Photos

