

# Tri-Start – specials

## quadrax and differential twinax contacts

### SIZE 8 HIGH SPEED QUADRAX AND DIFFERENTIAL TWINAX CONTACTS FOR USE IN MIL-DTL-38999 CONNECTORS

**Quadrax Contacts** consist of an outer contact with four strategically spaced inner contacts forming two 100 or 150 Ohm matched impedance differential pairs.

**Differential Twinax Contacts** consist of an outer contact with two inner contacts spaced to form one 100 or 150 Ohm matched impedance differential pair.

Both contacts can be used in connectors for Ethernet 100 Base-T-100 Ohm, Fibre-Channel-150 Ohm and IEEE 1394B FireWire-110 Ohm applications.

#### TYPICAL ELECTRICAL PERFORMANCE

- Bandwidth: Up to 3 Gigahertz
- Data rate: Exceeding 2 Gbits/sec.
- Voltage rating: 500 Vrms max. @ sea level
- Dielectric withstanding voltage:  
1000 VACrms between all inner contacts @ sea level  
500 VACrms between inner and outer contacts @ sea level

Quadrax contacts are also available in ARINC 600 Rectangular connectors. See photo on right; consult Amphenol Aerospace for further information.

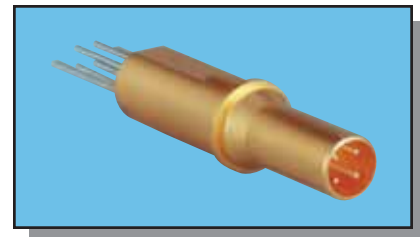
Also available are Quadrax and Twinax Transition Adapters which provide a method of launching from the high speed connectors to PCB boards.

Consult Amphenol Aerospace, Sidney NY for ordering information for MIL-DTL-38999 Series III connectors with quadrax and differential twinax contacts. Below is a chart that provides contact part numbers available, but not limited to, the cables listed. All contacts are available kitted with or installed into specially modified MIL-DTL-38999 connectors. Consult Amphenol for cables not listed.

CONTACT PART NUMBERS AND APPLICABLE CABLES FOR USE IN D38999 CONNECTORS			
Description	Part Number	Cable Part Number	Impedance
Quadrax Socket	21-33385-21	Draka Fileca F-4703-3	100 Ohm
	21-33385-31	Tensolite 26473/02006X-4(LD)	150 Ohm
	21-33385-51	Tensolite NF24Q100	100 Ohm
	21-33385-61	Tensolite NF22Q100 or Thermax 956-5	100 Ohm
	21-33385-61	Tensolite 24450/03089X-4(LD)	110 Ohm
	21-33385-71	Tensolite NF26Q100	100 Ohm
	21-33385-91	JSFY02	110 Ohm
	21-33397-21	PCB (1.035 length)	100 Ohm
	21-33397-31	PCB (.866 length)	100 Ohm
	Quadrax Pin	21-33384-21	Draka Fileca F-4703-3
21-33384-31		Tensolite 26473/02006X-4(LD)	150 Ohm
21-33384-51		Tensolite NF24Q100	100 Ohm
21-33384-61		Tensolite NF22Q100 or Thermax 956-5	100 Ohm
21-33384-61		Tensolite 24450/03089X-4(LD)	110 Ohm
21-33384-71		Tensolite NF26Q100	100 Ohm
21-33384-91		JSFY02	110 Ohm
21-33398-21		PCB (1.035 length)	100 Ohm
21-33398-31		PCB (.866 length)	100 Ohm
21-33425-1		Right Angle Special	100 Ohm
Differential Twinax Socket	21-33388-21	Tensolite 24463/9P025X-2(LD)	100 Ohm
	21-33388-31	Tensolite 26483/03071X-2(LD)	100 Ohm
	21-33835-1	PCB (1.035 length)	
Differential Twinax Pin	21-33387-21	Tensolite 24463/9P025X-2(LD)	100 Ohm
	21-33387-31	Tensolite 26483/03071X-2(LD)	100 Ohm
	21-33834-1	PCB (1.035 length)	



**D38999 Series III Groundplane Connector with Quadrax PCB Sockets Installed**  
Contacts front are Differential Twinax (left) and Quadrax (right)



**Quadrax Contact for use in ARINC 600 Connectors**

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