

# Quadrax High Speed Contacts for Board Level Interconnects

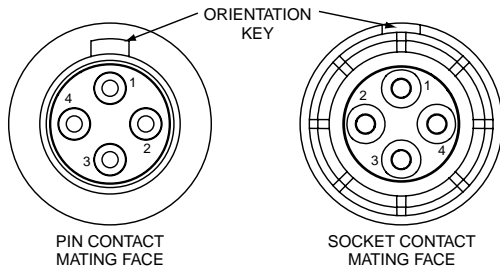
## HIGH SPEED QUADRAX, COMPLIANT PIN TERMINATION

### Quadrax Contacts for Board Level Connectors

Amphenol supplies size 8 compliant pin Quadrax PCB contacts which provide several advantages for high data transfer rates, low power consumption and excellent EMI compatibility.

- Four strategically spaced inner contacts form two 100 or 150 Ohm matched impedance differential pairs
- Outer contact has rugged wall section for durability
- Same as used in cylindrical 38999 connectors - See Amphenol Combined Circular Connector catalog/PCB contact section for more information on quadrax contacts and cables.

#### Suggested Numbering for Quadrax Contacts



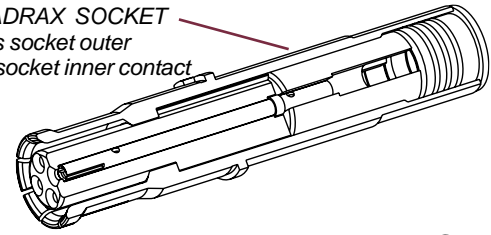
### Quadrax Contacts are gold plated, crimp termination

Finish of mating contacts parts: supplied with 0.000050 min. gold over nickel on mating parts. Consult Amphenol for availability of other finishes.

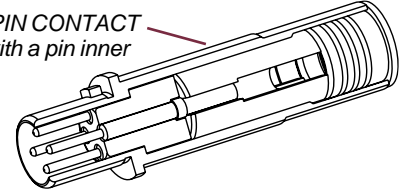
#### Quadrax Size 8 Contact Performance:

- Bandwidth: Up to 3 Gigahertz
- Data Rate: Exceeding 3 Gbits/sec.
- Voltage Rating: 500 Vrms max. @ sea level
- Dielectric Withstanding Voltage: 1000 VAC rms between all inner contacts @ sea level  
500 VAC rms between inner and outer contacts @ sea level

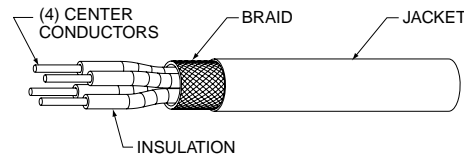
TYPICAL QUADRAX SOCKET CONTACT has socket outer contact with a socket inner contact



TYPICAL QUADRAX PIN CONTACT has pin outer contact with a pin inner contact

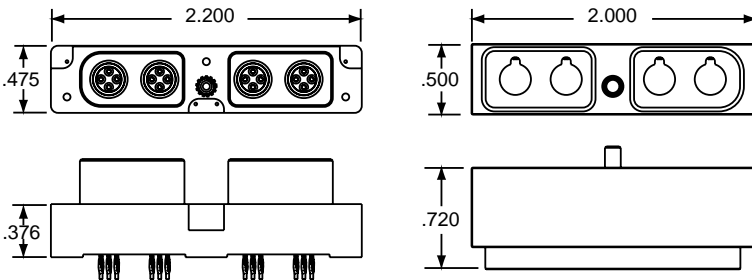


#### Cable Illustration Quadrax Contact

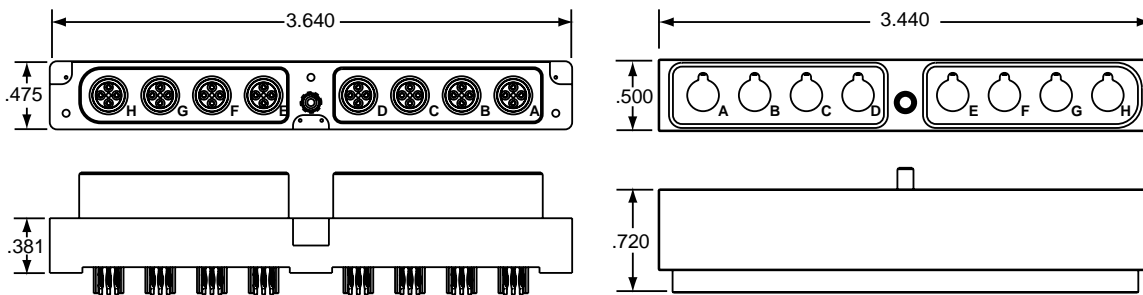


Board Level Interconnects with Quadrax Contacts

#### 4 POSITION BOARD LEVEL CONNECTOR WITH QUADRAX



#### 8 POSITION BOARD LEVEL CONNECTOR WITH QUADRAX



Compliant Pin Quadrax size 8 contacts are available with hole diameters:  
 .025 ±.002 PTH Quadrax contact  
 .040 ±.003 PTH shell grounding  
 Accommodates backplane .125 inch min. thickness  
 (Consult Amphenol Aerospace for availability of additional connector configurations.)

Introduction/ Pkg. Solutions/ Brush Contact	LRM (Line Replaceable Modules)	Ruggedized VME 64x/ VITA 60, 66	High Density HDB3 HSB3 Hi Speed	Low Mating Force MIL-DTL-55302	Rock & Panel Brush Ruggedized	Other Rectangular Interconnects
Staggered/ GEN-X	Hybrids - Fiber Optics/ Hi Speed/RF/Power	Options/ Accessories	Standard Brush	Hybrids - Signal/Power/ Coax/Fiber Optics	Docking Conn./ Accessories/Install.	Rectangular Interconnects