

# DIFFERENTIAL TWINAX CONTACTS

Differential Twinax Contacts

## MIL-DTL-38999 SERIES III / EN3645 / EN4165

### FEATURES AND BENEFITS

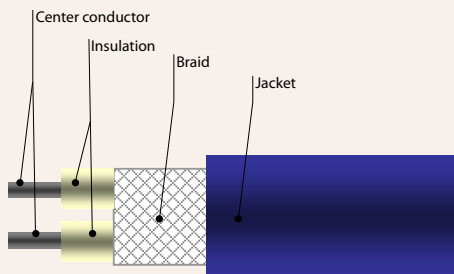
- Offer several advantages for high data transfer rates, low power consumption and excellent EMI compatibility:
- Two strategically spaced inner contacts form two 100 or 150 Ohm matched impedance differential pairs
- Outer contact has rugged wall section for durability
- Available in size 8 crimp termination style
- Also available in size 8 with PC tails
- Requires modification of MIL-DTL-38999 connector to accommodate keyed contacts



### MATERIALS AND FINISH

- Body: Copper alloy
- Finish: Gold over nickel on mating parts
- Insulators: High Performance Fluorocarbon or PEEK

### TYPICAL TWINAXIAL CABLE



### TYPICAL ELECTRICAL PERFORMANCE

- Bandwidth: Up to 1.25 GHz
- Data Rate: Exceeding 2.5 Gbps
- 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

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### CRIMP CONTACTS

Cable	Contact Part Number			Crimping Tools	
	Pin	Socket	Impedance (Ohms)	Inner contact	Outer contact
Tensolite 24463/05099X-8(LD), Thermax MX 100-24, Tensolite 24463/9P025X-2(LD), Thermax 12814, ST5M1284-003 (98 Ohm), 26463/70460X- 2 (98 Ohm), PIC E10224, Fileca 2709-3, NF24T100-200C (Space), S280W502-1	900418	900419	100	M22520/2-01 with M22520/2-37 or with Daniels positionner K709	M22520/5-01 with die set M22520/5-45 (Location A)
GORE GSC-05-827300-00 Tensolite 26453/03184X-2(LD) Thermax 956-626Z	600931	600932			
Tensolite 26453/03184X-2(LD), Thermax 956-626Z, GORE GSC-05-827300-00 ASNE08072003-09	600933	600934			
23460/05114X-2(LD), PIC E1024	600935	600936			
Raychem 0026A0024, M17/176-00002 (77 Ohm)	900937	600938			
JSFY11-24, Tensolite 24463/03220T-2(LD), Thermax 956-1T200	600939	600940			
S280W502-6, Tensolite 24463/9P026X-2(LD)	600941	600942			
AXON P509782	600943	600944			
Tensolite 26453/03184X-2(LD)	600945	600946			
Gore DXN 2125	600947	600948			
Tensolite 26483/03071X-2(LD)	900294	900299	150		
Tensolite 26483/03071X-2(LD)	600858	600899			