

RF, Microwave and Datalink Contacts

for MIL-DTL-38999, SuperNine®, Mighty Mouse and Micro-Crimp® Connectors



Twinax Contacts

Size #8 Differential Twinax Contacts

Differential twinax contacts accept shielded twisted pair cable. These snap-in, rear-release contacts fit Glenair Series 80 Mighty Mouse connectors and Glenair 233-217 MIL-DTL-38999 type connectors with keyed inserts. Crimp termination. 24 and 26 AWG versions. 68 ohm, 75 ohm, 77 ohm and 100 ohm impedance. Gold-plated copper alloy. Supplied unassembled with sealing boot and instruction sheet.



Size #8 Differential Twinax Contacts				
Shielded Twisted Pair Cable	Wire Size (AWG)	Impedance (ohms)	Pin Contact	Socket Contact
GSC-03-83971-00 (Gore)	24	100	853-014-02F	853-013-02F
0024A0024 (TE Raychem)	24	100	853-014-04F	853-013-04F
M17/176-00002 (MIL-DTL-17)	24	77	853-014-05F	853-013-05F
24443/52088X2 (Tensolite ref: 5M2022-003)	24	75	853-014-05F	853-013-05F
ST5M1212-002 (McDonnell Douglas)	24	68	853-025-01F	853-024-01F
DXN2603 (Gore)	26	100	853-014-09F	853-013-09F
7726D0664 (TE Raychem)	26	77	853-025-02F	853-024-02F

Technical Data		
Specifications	Construction	Connector Compatibility
<ul style="list-style-type: none"> Operating temperature: -65°C. to +175°C. Operating frequency: consult factory Dielectric withstanding voltage, inner contact to inner contact: 1000 Vrms Dielectric withstanding voltage, inner contact to outer body: 500 Vrms Insulation resistance: 5000 megohms min. Contact resistance, inner contacts: 55 millivolt max. voltage drop @ 1 ampere Contact resistance, outer body: 75 millivolt max. voltage drop @ 12 amperes Durability: 500 mating cycles Shock: EIA-364-27 condition D Vibration: EIA-364-28 condition VI, letter J 	<ul style="list-style-type: none"> Inner contacts, outer body: copper alloy, 50 microinches gold over nickel plating Crimp ferrule: copper alloy, 50 microinches gold over nickel plating Insulators: PPS Sealing boot: fluorosilicone rubber grommet, glass-filled PEI follower 	<ul style="list-style-type: none"> Differential twinax contacts have an alignment key and are not for use in standard MIL-DTL-38999 connectors Glenair 233-217 MIL-DTL-38999 Series III connectors with keyed inserts for contact alignment. Glenair Series 80 Mighty Mouse. <i>All standard Mighty Mouse connectors with size #8 contacts have keyed contact cavities for proper alignment of differential twinax, quadax, and octaxial contacts.</i>

Sealing Boot

Sealing boots are supplied with contacts. To order contacts without sealing boots, delete the "F" suffix from the part number

The diagram shows a blue and tan sealing boot with the following dimensions: .350 (8.89) inches in length, .326 (8.28) inches in diameter, and a maximum length of .985 (25.02) inches.

RF, Microwave and Datalink Contacts

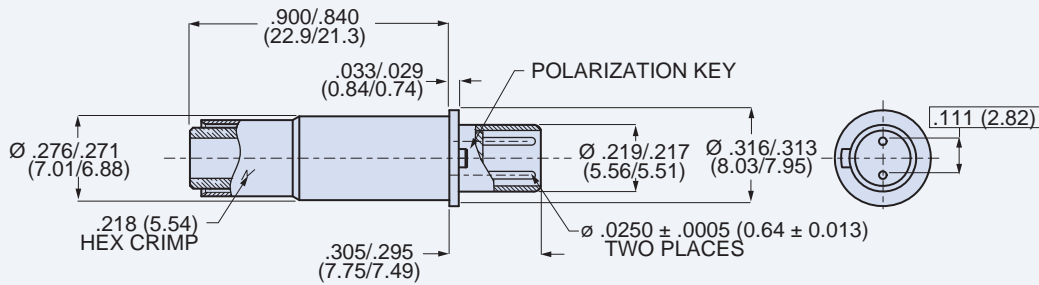
for MIL-DTL-38999, SuperNine®, Mighty Mouse and Micro-Crimp® Connectors



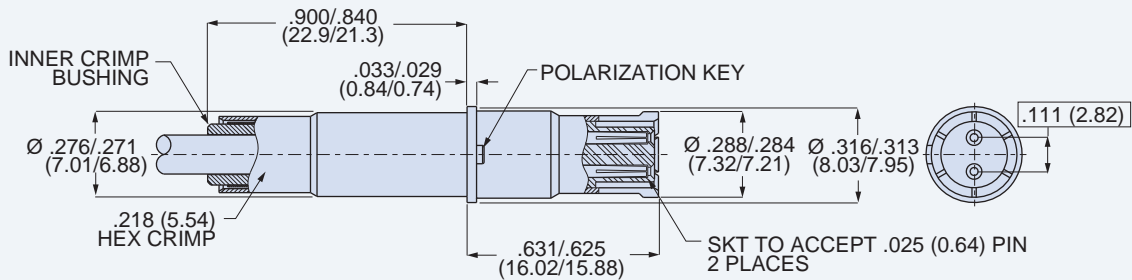
Twinax Contacts

Size #8 Differential Twinax Contacts

Pin Contact 853-014 and 853-025



Socket Contact 853-013 and 853-024



Crimp Tools, Removal Tool, Assembly Instruction Sheet

Contact Part Number	Inner Contacts		Outer Body		Removal Tool	Assembly Instruction Sheet
	Crimper	Positioner	Crimper	Hex Die		
853-013 853-014 853-024 853-025	809-015 (M22520/2-01)	809-240 (M22520/2-37)	809-129 (M22520/5-01)	859-007 (M22520/5-45)	859-049 (M81969/14-12)	AI85007

Inner Contact Crimp Tools



809-015
(M22520/2-01)



809-240
(M22520/2-37)

Outer Body Crimp Tools



809-129
(M22520/5-01)



859-007
(M22520/5-45)

Removal Tool



859-049
(M81969/14-12)

RF, Microwave and Datalink Contacts

for MIL-DTL-38999, SuperNine®, Mighty Mouse and Micro-Crimp® Connectors

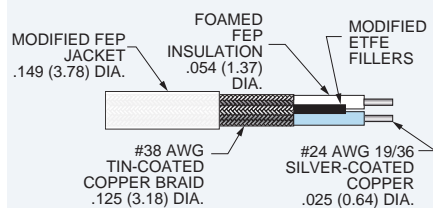


Twinax Contacts

Size #8 Differential Twinax Contacts

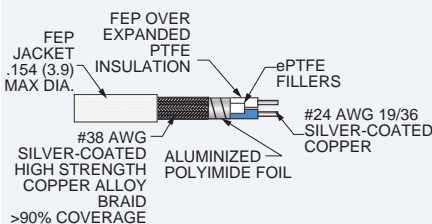
Shielded Twisted Pair Cables for Differential Twinax Contacts

Raychem 0024A0024 100 Ohm 24 AWG Twisted Pair Cable



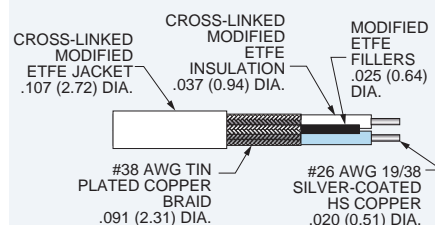
Impedance	100 ± 7 ohms @ 1 MHz
DWV rating	1000 Vrms
Temperature Rating	-55° to +200° C

Gore GSC-03-83971-00 100 Ohm 24 AWG Twisted Pair Cable



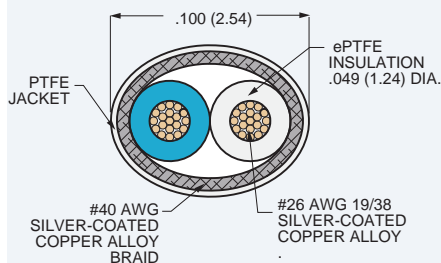
Impedance	100 ± 7 ohms
DWV Rating	1000 Vrms
Temperature Rating	-65° to +200° C

Raychem 7726D0664-9 77 Ohm 26 AWG Twisted Pair Cable



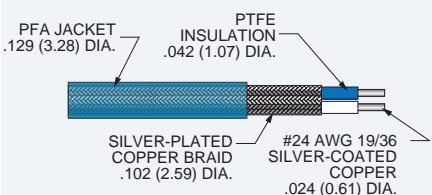
Impedance	77 ± 5 ohms @ 1 MHz
DWV rating	1000 Vrms
Temperature Rating	-65° to +150° C

Gore DXN2603 100 Ohm 26 AWG Twisted Pair Cable



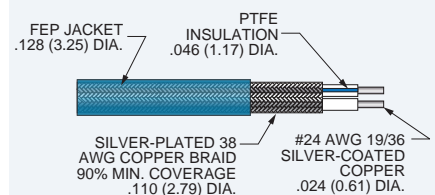
Impedance	100 ± 10 ohms
Attenuation	31.2 dB / 100 ft. @ 1 GHz
Temperature Rating	+200° C

M17/176-00002 Shielded Twisted Pair Databus Cable



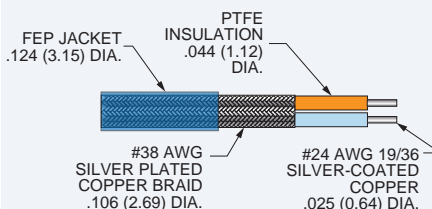
Impedance (ohms)	77 ± 7 at 1 MHz
DWV Rating	1000 Vrms
Temperature Rating	-65° to +200° C

Tensolite 24443/52088X2 75 Ohm 24 AWG Twisted Pair Cable



Impedance (ohms)	75 ± 5
DWV Rating	1500 Vrms
Temperature Rating	-65° to +200° C

ST5M1212-002 68 Ohm 24 AWG Twisted Pair Cable



Impedance	68 ± 4 ohms
DWV rating	1500 Vrms
Temperature Rating	-65° to +200° C