

RF, Microwave and Datalink Contacts

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



Twinax Contacts

Size #8 Concentric Twinax Contacts for 100 Ohm Twisted Pair Cable

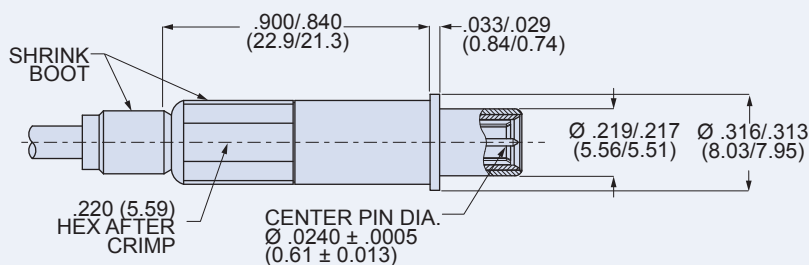


Size #8 concentric twinax contacts accept 100 ohm #24 AWG controlled impedance shielded twisted pair databus cable. These snap-in, rear-release contacts fit Glenair Series 80 Mighty Mouse connectors and MIL-DTL-38999 Series I, III and IV connectors with size #8 cavities. Crimp termination. Gold-plated copper alloy. Supplied unassembled with heatshrink boot and assembly instruction sheet.

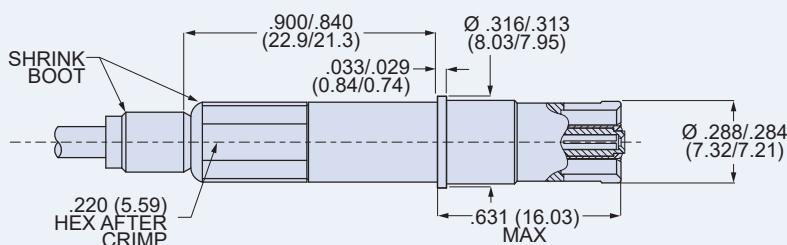
Size #8 Concentric Twinax Contacts		
Cable	Pin Contact	Socket Contact
TE Raychem 0024A0024 Gore GSC-03-81416-00	853-011	853-012

Socket Contact

Pin Contact 853-011



Socket Contact 853-012



Technical Data

Specifications

- Operating temperature: -65°C. to +175°C.
- Dielectric withstanding voltage, center contact to intermediate contact: 1000 Vrms sea level, 250 Vrms at 70,000 feet
- Dielectric withstanding voltage, intermediate contact to outer contact: 500 Vrms sea level, 250 Vrms at 70,000 feet
- Contact resistance, center and intermediate contacts: 55 millivolt max. voltage drop @ 1 ampere
- Contact resistance, outer contact: 75 millivolt max. voltage drop @ 12 A.
- Durability: 500 mating cycles
- Shock: MIL-DTL-38999 Series III
- Vibration: MIL-DTL-38999 Series III

Construction

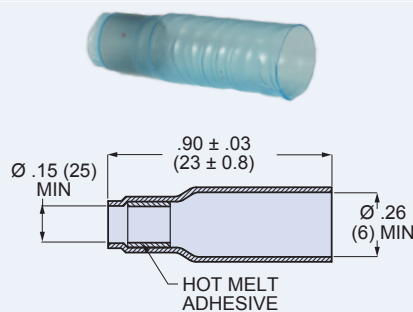
- **Center contact, intermediate contact and outer contact:** copper alloy, 50 microinches gold over nickel plating
- **Dielectric:** PEEK and PTFE
- **Socket contact hood:** stainless steel, passivated
- **Heatshrink boot:** cross-linked polyvinylidene fluoride, translucent blue, with thermoplastic hot melt adhesive

Connector Compatibility

- MIL-DTL-38999 Series I, III and IV
- Glenair Series 23 SuperNine®
- Glenair Series 80 Mighty Mouse

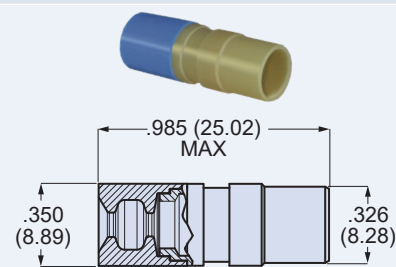
Heatshrink Boot

Supplied with contact. Slide onto cable before terminating contact. Slide onto contact after the cable is terminated. Apply heat to shrink the boot and melt the adhesive. Install contact into connector.



Optional Sealing Boot

Sealing boots, purchased separately, provide improved environmental seal compared to heatshrink boot supplied with contacts.



Wire Dia.	Part No.
.090 – .130 (2.3 – 3.3)	859-042-01

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Crimp Tools

Contact Part Number	Center Contact		Intermediate Contact		Outer Crimp Sleeve		Instruction Sheet
	Crimper	Positioner	Crimper	Hex Die	Crimper	Hex Die	
853-011 853-012	809-015 (M22520/2-01)	809-240 (M22520/2-37)	809-129 (M22520/5-01)	859-048 (M22520/5-105)	809-129 (M22520/5-01)	859-048 (M22520/5-105)	AI853-011

Center Contact Crimp Tools



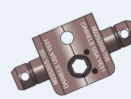
809-015
(M22520/2-01)



809-240
(M22520/2-37)

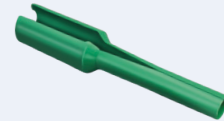


809-129
(M22520/5-01)



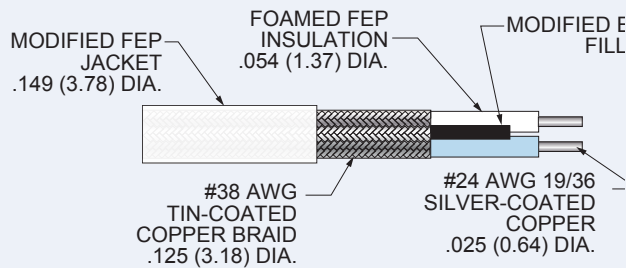
859-048
(M22520/5-105)

Removal Tool



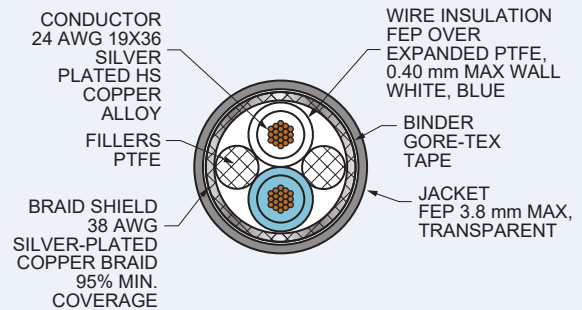
859-049
(M81969/14-12)

Raychem 0024A0024 100 Ohm #24 AWG Twisted Pair Cable



Characteristic Impedance	100 ± 7 ohms @ 1 MHz
capacitance, mutual	15 pF/ft. (nominal)
Velocity of Propagation	76% (nominal)
Conductor resistance	26.5 ohms/1000 ft (nominal)
Dielectric Withstanding Voltage	1000 Vrms
Temperature Rating	-55 °C to +200 °C

Gore GSC-03-81416-00 #24 AWG Twisted Pair Cable



Characteristic Impedance	100 ± 7 ohms @ 1 MHz
capacitance, mutual	77 pF/m. (nominal)
Velocity of Propagation	78% (nominal)
Conductor resistance	85 ohms/km (nominal)
Dielectric Withstanding Voltage	1000 Vrms
Temperature Rating	-65 °C to +200 °C