

RF, Microwave and Datalink Contacts

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



Twinax Contacts

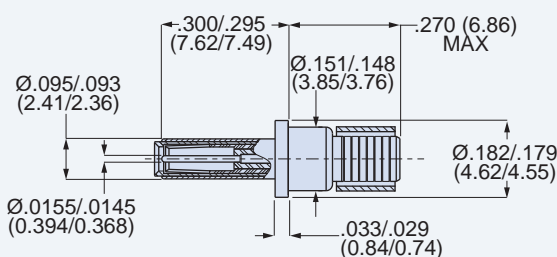
Size #12 Concentric Twinax Contacts for M17/176-00002 Shielded Twisted Pair Cable



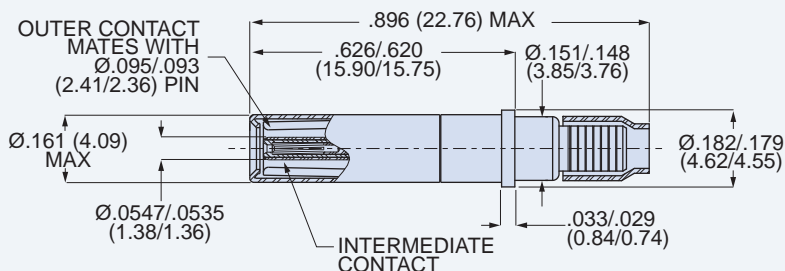
Size #12 concentric twinax contacts accept M17/176-00002 shielded twisted pair databus cable. These snap-in, rear-release contacts fit MIL-DTL-38999 Series I, III and IV connectors with size #12 cavities, and Glenair Series 23 SuperNine® connectors. Crimp termination. Gold-plated copper alloy. Interface is in accordance with JN1104, DSCC 02003 and DSCC 02004 specifications.

Size #12 Concentric Twinax Contacts		
Cable	Pin Contact	Socket Contact
M17/176-00002	853-008-1	853-009-1

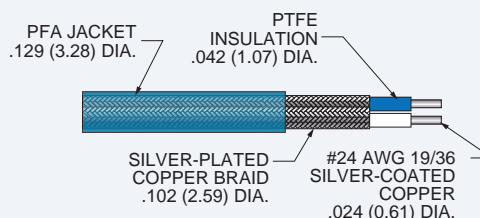
Pin Contact 853-008-1



Socket Contact 853-009-1



M17/176-00002 Shielded Twisted Pair Databus Wire (Ref)



Technical Data Specifications

Operating temperature: -65°C. to +175°C.
 Operating frequency: 0 – 20 MHz
 Dielectric withstanding voltage, center contact to intermediate contact: 800 Vrms
 Dielectric withstanding voltage, intermediate contact to outer contact: 500 Vrms
 Contact resistance, center and intermediate contacts: 55 millivolt max. voltage drop @ 1 ampere
 Contact resistance, outer contact: 75 millivolt max. voltage drop @ 12 amperes
 Durability: 500 mating cycles
 Shock: EIA-364-27 condition D
 Vibration: EIA-364-28

Construction

Center contact, intermediate contact, outer contact, rear bushing: copper alloy, 50 microinches gold over nickel plating
Inner and outer crimp sleeves: copper alloy, 50 microinches gold over nickel plating
Rear bushing: copper alloy, 50 microinches gold over nickel plating
Insulators: PEEK, PTFE
Socket contact hood: stainless steel, passivated

Connector Compatibility

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

Military Specification	MIL-DTL-17/176
Military Part Number	M17/176-00002
Continuous working voltage	750 Vrms, maximum
Operating frequency	10 MHz, maximum
Characteristic Impedance	77 ± 7 at 1 MHz
Temperature Rating	-65° to +200° C
Minimum Bend Radius	0.6 in. (15mm.)
Weight (lbs/ 1,000 ft.)	18
Capacitance (pF/ft)	24
Attenuation	1.4 dB per 100 feet, max. at 1MHz
Velocity of Propagation	68%

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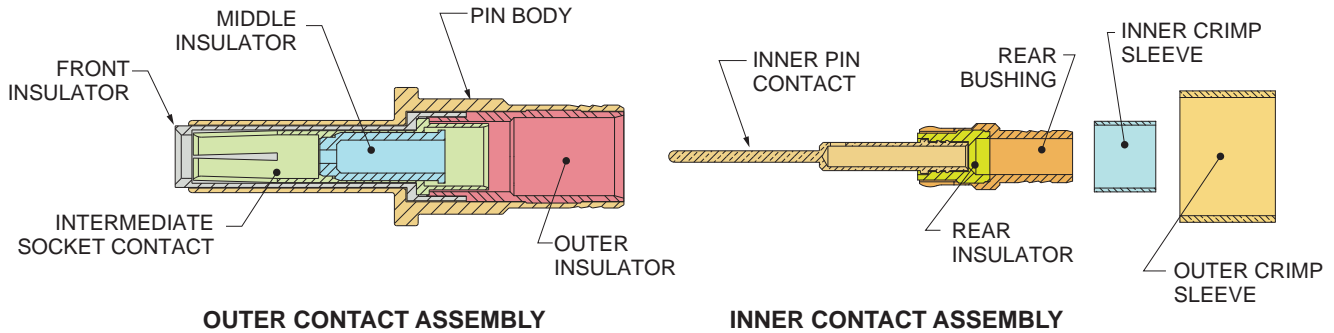
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Twinax Contacts

Size #12 Concentric Twinax Contacts for M17/176-00002 Shielded Twisted Pair Cable

Pin Contact Details



Crimp Tools, Installation/Removal Tool, Assembly Instruction Sheet

Contact Part Number	Crimp Tools						Insertion/Removal Tool	Assembly Instruction Sheet
	Inner Contact Crimper	Inner Contact Positioner	Intermediate Contact Crimper	Intermediate Contact Positioner	Outer Contact Crimper	Outer Contact Hex Die		
853-008-1 853-009-1	809-128 (MH992)	859-125 (K1365)	859-126 (GS212)	859-127 (GP1437)	809-133 (M22520/31-01)	859-128 (GP959)	809-132 (M81969/14-04)	AI85021

Center Contact Crimp Tools	Intermediate Contact Crimp Tools		Outer Contact Crimp Tools		Installation/Removal Tool	
 809-128 (MH992)	 859-125 (K1365)	 859-126 (GS212)	 859-127 (GP1437)	 809-133 (M22520/31-01)	 859-128 (GP959)	 808-132 (M81969/14-04)