



SERIES 80 Mighty Mouse Connectors



Size #8 Concentric Twinax Contacts, for MIL-STD-1553 Databus

SIZE #8 CONCENTRIC TWINAX CONTACTS FOR MIL-STD-1553 DATABUS



Fig. 1
Pin Contact
853-003-08-625



Fig. 2
Socket Contact
853-004-08-628



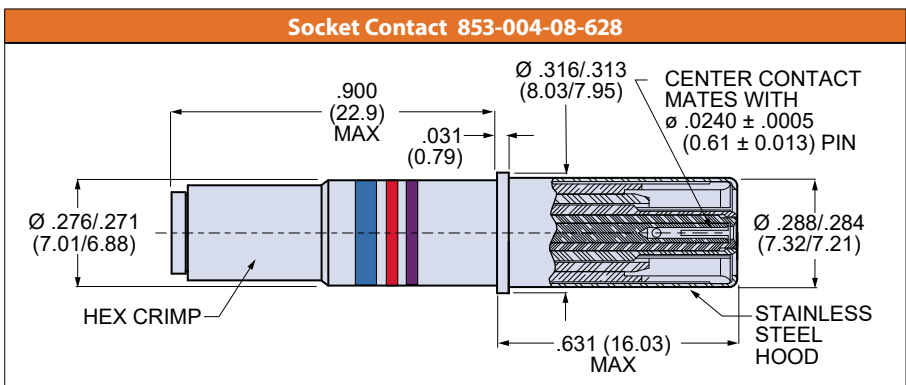
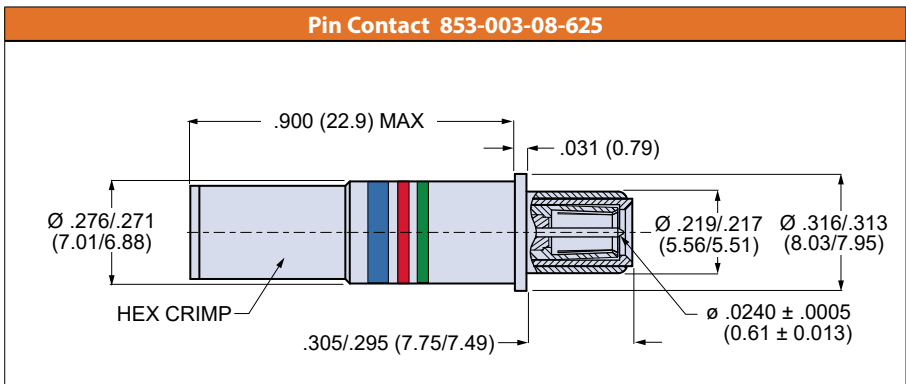
Fig. 3
Heatshrink Boot
(Supplied with Contact)



Fig. 4
Sealing Boot
859-042-01
(Not supplied with contact.
Order separately)

Concentric twinax contacts accept M17/176-0002 shielded twisted pair databus cable. These snap-in, rear release contacts fit Glenair Series 80 Mighty Mouse connectors and Glenair MIL-DTL-38999 Series I, III and IV connectors with size #8 cavities. Crimp termination. Gold-plated copper alloy, FEP insulator. Supplied unassembled with heatshrink boot (fig.3). Order sealing boot separately (fig.4). 55mV max voltage drop at 1 amp test current. DWV at sea level: 1000 VAC between contacts; 500 VAC between intermediate and outer contact. SAE AS39029 qualified.

Fig.	Description	Cable Accommodation	Part Number	AS39029 Part Number	Color Bands		
					1st	2nd	3rd
Fig. 1	Pin	M17/176-00002	853-003-08-625	M39029/113-625	Blu	Red	Grn
Fig. 2	Socket	M17/176-00002	853-004-08-628	M39029/114-628	Blu	Red	Vio
Fig. 4	Sealing Boot	M17/176-00002	859-042-01				



AS39039/113 Contact Crimp, Installation and Removal Tools							
Contact	Center Contact Tooling		Intermediate Contact Tooling		Outer Crimp Sleeve Tooling		Installation and Removal Tool
	Crimp Tool	Contact Positioner	Crimp Tool	Die Part Number	Crimp Tool	Die Part No	
853-003 (AS39029/113)	809-015	859-240	809-129	859-048	809-129	859-048	859-049
853-004 (AS39029/114)	M2252/2-01	M22520/2-37	M22520/5-01	M22520/5-105	M22520/5-01	M22520/5-105	M81969/14-12



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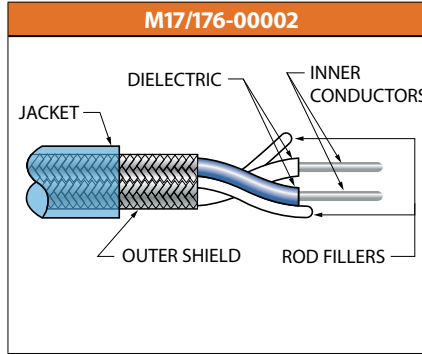


Size #8 Concentric Twinax Contacts, for MIL-STD-1553 Databus

CABLE FOR SIZE #8 CONCENTRIC TWINAX CONTACTS FOR MIL-STD-1553 DATABUS

Material and Finish	
Contact Body, Inner and Intermediate Contacts and Crimp Sleeve	Copper Alloy / Gold Plated
Insulators	Peek and PTFE / N/A
Sealing Boot Grommet	Fluorosilicone
Grommet Follower	Polyetherimide

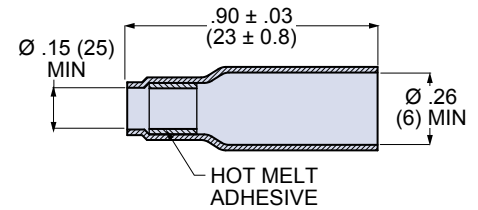
Contact Specifications	
Current Rating	1 ampere
Contact Resistance, Center and Intermediate Contacts	55 millivolt max. voltage drop @ 1 ampere
Contact Resistance – Outer Contact	75 millivolt max. voltage drop @ 12 amperes
Dielectric Withstanding Voltage, Center Contact to Intermediate Contact	1000 Vrms 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
Temperature Range	-65°C to +175°C
Durability	500 mating cycles
Corrosion	EIA-364-26, condition B, 48 hours
Vibration	EIA-364-28, condition V, letter J, 37g's
Shock	EIA-364-27, condition D, 300g's



Military Part Number	M17/176-00002	
Impedance	77 Ohm	
Operating Frequency	10 MHz max	
Velocity of Propagation %	68	
Capacitance	24 pF/foot	
Conductor	Two - 24 AWG (19/36) silver-coated, high strength copper alloy wire	
Dielectric	PTFE	
Outer Conductor	Single braid of AWG 38, silver-coated, high strength copper alloy wire	
Jacket	Type XIII: PFA	
Outer Dia.	.129 (3.28) ± .005 (0.13)	
Temperature Rating	-55° to +200°C	
Weight	18 lbs/1000ft	
Max. Attenuation	Freq. (MHz)	dB/100 ft
	1	1.4

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.



Sealing Boot

Sealing boot is ordered separately. Slide boot onto wire before terminating contact. After contact is installed in connector, slide boot forward into connector grommet to seal the contact cavity. Additional information on sealing boot is on the next page.



Wire Dia. (in.)	Wire Dia. (mm.)	Part Number
.090 - .130	2.3 - 3.3	859-042-01

