

Mighty Mouse Connectors with Size #8 Quadrax, Twinax, Coax or Power Contacts

Size #8 Concentric Twinax Contacts 853-003 and 853-004

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

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). 1 A. current rating, 500 Vac. 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				



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



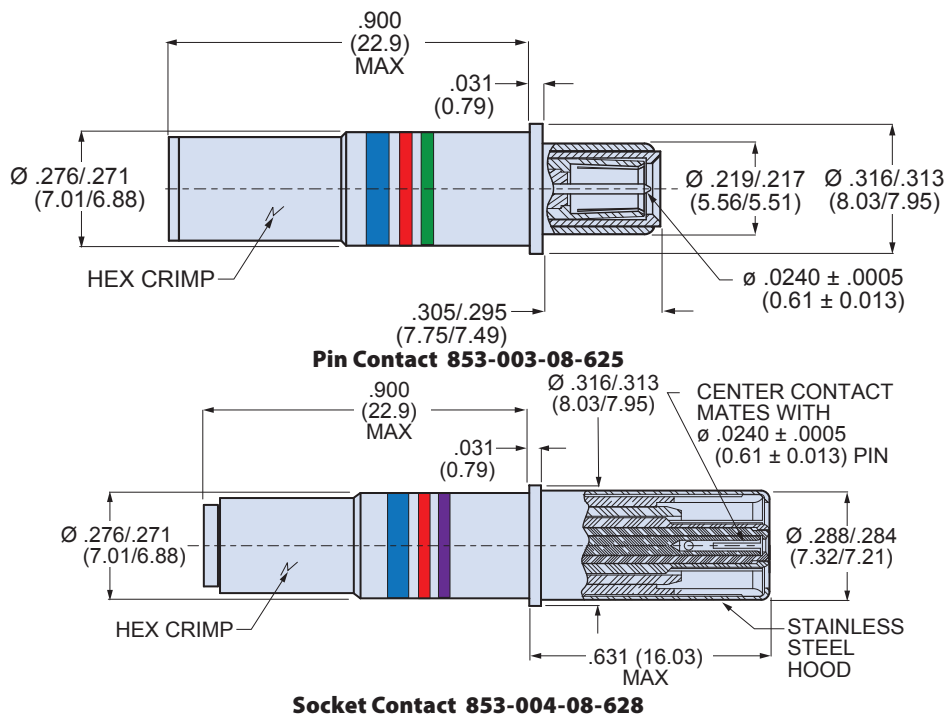
Fig. 2
Socket Contact
853-004-08-628



Fig. 3
Heatshrink Boot
(Supplied with Contact)

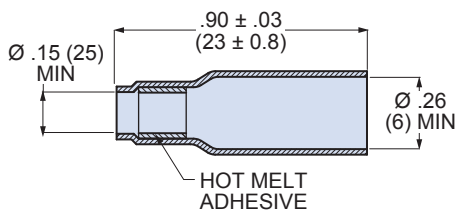


Fig. 4
Sealing Boot
859-042-01
(Not supplied with contact.
Order separately)



HEATSHRINK BOOT

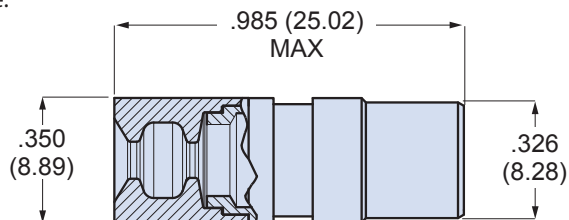
Supplied with contact. Slide onto cable before terminating contact. Slide onto contact after the cable is terminated. Apply heat to shrink the boot and melt the adhesive. Install contact into connector.



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
.130 - .170	3.3 - 4.3	859-042-02
.170 - .205	4.3 - 5.2	859-042-03



Dimensions in inches (millimeters) and are subject to change without notice.

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Mighty Mouse Connectors with Size #8 Quadrax, Twinax, Coax or Power Contacts

Size #8 100 Ohm Quadrax Contacts 854-001 and 854-002



Concentric Twinax

MATERIAL AND FINISH

Inner, Intermediate and Outer Contact, Crimp Sleeve	Copper alloy, 50 microinches gold over nickel
Insulators	PEEK, PTFE
Sealing Boot Rigid Dielectric	Ultem
Sealing Boot Grommet	Fluorosilicone

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

TERMINATION TOOLS FOR SIZE #8 CONCENTRIC TWINAX CONTACTS



A M22520/2-01 crimper for center contact. Requires **B** positioner, ordered separately. Length is 6.75 inches, weight is approx. 10 oz.

B Positioner, M22520/2-37. Use with **A** crimper, ordered separately. Positioner holds contact at proper depth.

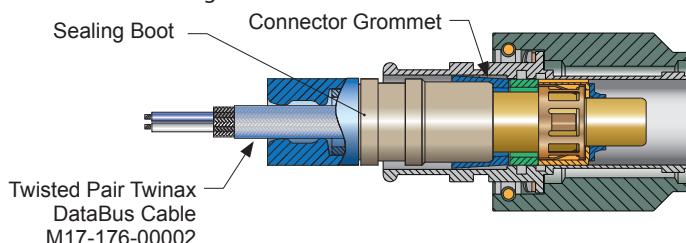
C Parallel action tool terminates intermediate contact and outer shield ferrule. Use with **D** hex crimp dies. 11 inches OAL, 2.0 pounds. Anodized aluminum frame, steel mechanism, plastic handles. Accepts all M22520/5 die sets.

D Die set for terminating intermediate contact and cable shield. Requires **C** crimp tool sold separately. Hardened steel, black oxide finish.

Figure	Part Number	Military Part Number	Daniels Part Number
A	809-015	M22520/2-01	AFM8
B	809-240	M22520/2-37	K709
C	809-129	M22520/5-01	HX4
D	859-048	M22520/5-105	Y631

SEALING BOOT INFORMATION

The sealing boot is necessary to prevent moisture and contamination from penetrating the connector. The sealing boot is ordered separately. **DO NOT USE HEATSHRINK BOOT IF USING SEALING BOOT.** The boot consists of a rigid dielectric sleeve and a fluorosilicone rubber grommet. Slide boot onto cable before terminating contact. After the contact is installed into connector, seat the boot into connector grommet.



CONTACT REMOVAL TOOL

Plastic tool extracts wired contact from connector. First, remove sealing boot, then insert tool from rear of connector.

Size	Part Number	Military Part Number
#8	859-049	M81969/14-12



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