

RF, Microwave and Datalink Contacts

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



Twinax Contacts

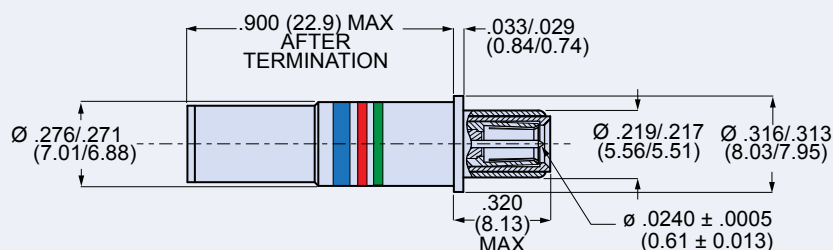
Size #8 Concentric Twinax Contacts for M17/176-00002 Shielded Twisted Pair Cable



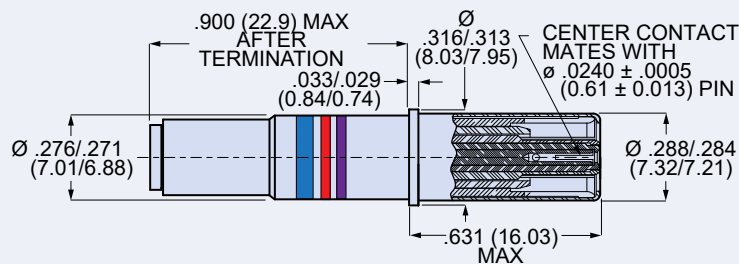
Concentric twinax contacts accept M17/176-00002 shielded twisted pair databus cable. These snap-in, rear-release contacts fit Glenair Series 80 Mighty Mouse connectors and MIL-DTL-38999 Series I, III and IV connectors with size #8 cavities. Crimp termination. Gold-plated copper alloy, fluoroplastic dielectric. Supplied unassembled with heatshrink boot. SAE AS39029 qualified.

| Size #8 Concentric Twinax Contacts | | |
|------------------------------------|---|---|
| Cable | Pin Contact | Socket Contact |
| M17/176-00002 | 853-003-08-625 (M39029/113-625) | 853-004-08-628 (M39029/114-628) |

Pin Contact 853-003-08-625 (M39029/113-625)



Socket Contact 853-004-08-628 (M39029/114-628)



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

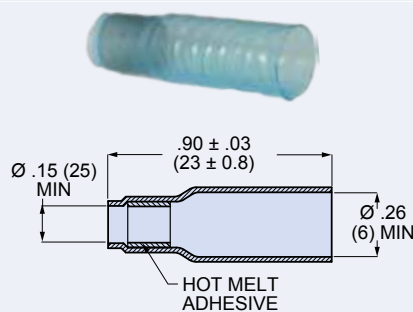
- **Center contact, intermediate contact and outer contact:** copper alloy, 50 microinches gold over nickel plating
- **Dielectric:** PEEK and PTFE
- **Socket contact hood:** stainless steel, passivated
- **Heatshrink boot:** cross-linked polyvinylidene fluoride, translucent blue, with thermoplastic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

Connector Compatibility

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

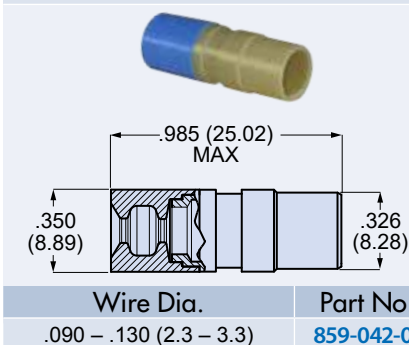
Heatshrink Boot

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.



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Crimp Tools

| Contact Part Number | Center Contact | | Intermediate Contact | | Outer Crimp Sleeve | |
|----------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | Crimper | Positioner | Crimper | Hex Die | Crimper | Hex Die |
| 853-003-08-625 853-004-08-628 | 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) |

Center Contact Crimp Tools



809-015
(M22520/2-01)

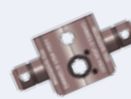


809-240
(M22520/2-37)

Intermediate Contact and Outer Sleeve Crimp Tools



809-129
(M22520/5-01)



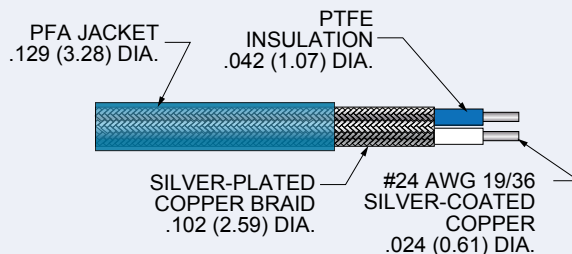
859-048
(M22520/5-105)

Removal Tool



859-049
(M81969/14-12)

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



| | |
|---------------------------------|--------------------------------------|
| 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 (ohms) | 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, maximum at 1MHz |
| Velocity of Propagation | 68% |