

RF, Microwave and Datalink Contacts

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



Low-Loss Matched-Impedance Coaxial Contacts

Size #8 50 Ohm Matched-Impedance Coaxial Contacts

Coax contacts fit Glenair Series 80 Mighty Mouse connectors and MIL-DTL-38999 Series I, III and IV connectors with size 8 contact cavities. 50 ohm nominal impedance. DC – 6 GHz frequency range. Inner contact is solder type, shield termination is crimp type. Supplied as unassembled kit with contact body, center contact, front and rear dielectric, retainer, clamp nut, crimp sleeve, sealing boot and instruction sheet. Contacts are snap-in, rear-release.



Pin Contact

DC – 6 GHz frequency range
50 ohm nominal impedance
50 microinches gold over nickel plating

Crimp termination
VSWR 1.25:1 max. @ 6 GHz
AS39029 design, construction and performance

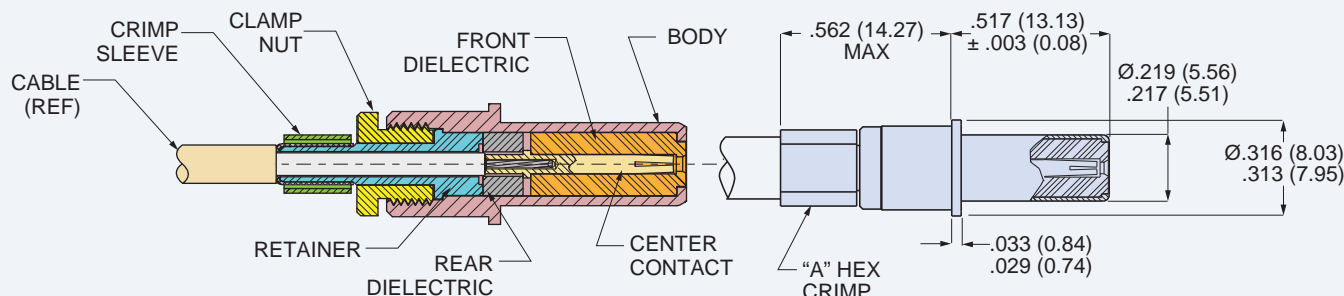


Socket Contact

| Size #8 50 Ohm Matched-Impedance Coaxial Contacts | | | | | | |
|---|------|------------|-----------------------------|-----------------------------|-------------|------|
| RG Cable | Size | Max. Freq. | Pin Contact | Socket Contact | "A" Hex In. | mm. |
| RG316 (M17/113-RG316) | 8 | 3 GHz | 852-031-02F | 852-030-02F | .128 | 3.25 |
| RG316DS (M17/152-00001) | 8 | 6 GHz | 852-031-01F | 852-030-01F | .128 | 3.25 |
| LLSB-200 (M17/220-0001) | 8 | 2.5 GHz | 852-043F | 852-042F | .213 | 5.41 |

| Technical Data | | |
|---|--|--|
| Specifications | Construction | Connector Compatibility |
| Operating temperature: -65°C. to +200°C. VSWR: 1.25:1 max. @ 6 GHz 50 ohm nominal impedance Dielectric withstanding voltage: 1300 Vac rms at sea level, 250 Vac at 50,000 feet Current rating: 1 ampere Durability: 500 mating cycles Shock: EIA-364-27 condition D Vibration: EIA-364-28 condition VI, letter J | Center contact, body, retainer, clamp nut: copper alloy, 50 microinches gold over nickel plating Front and rear dielectric: fluoroplastic Sealing Boot: fluorosilicone rubber, glass-filled PEI | MIL-DTL-38999 Series I, III and IV Glenair Series 23 SuperNine® Glenair Series 80 Mighty Mouse |

Pin Contact 852-031, 852-043



RF, Microwave and Datalink Contacts

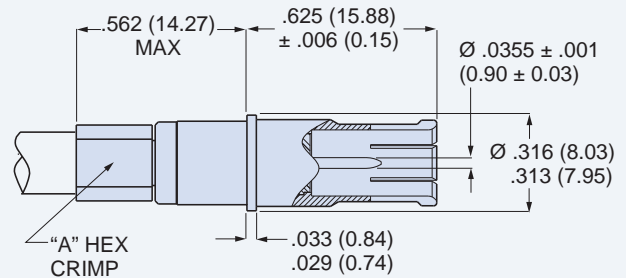
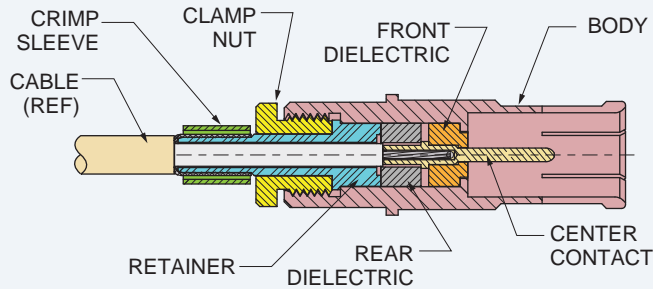
for MIL-DTL-38999, SuperNine®, Mighty Mouse and Micro-Crimp® Connectors



Low-Loss Matched-Impedance Coaxial Contacts

Size #8 50 Ohm Matched-Impedance Coaxial Contacts

Socket Contact 852-030, 852-042



Crimp Tools, Removal Tool, Assembly Instruction Sheet

| Contact Part Number | Crimp Tools | | | | Removal Tool | Assembly Instruction Sheet |
|---------------------|-----------------------|----------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------|
| | Inner Contact Crimper | Positioner | Shield Crimper | Hex Die | | |
| 852-030 | (Solder termination) | (Solder termination) | 809-129 (M22520/5-01) | 809-130 (M22520/5-03) | 859-049 (M81969/14-12) | AI85011 |
| 852-031 | (Solder termination) | (Solder termination) | 809-129 (M22520/5-01) | 809-130 (M22520/5-03) | 859-049 (M81969/14-12) | AI85012 |
| 852-042 | (Solder termination) | (Solder termination) | 809-129 (M22520/5-01) | 859-051 (M22520/5-05) | 859-049 (M81969/14-12) | AI85040 |
| 852-043 | (Solder termination) | (Solder termination) | 809-129 (M22520/5-01) | 859-051 (M22520/5-05) | 859-049 (M81969/14-12) | AI85040 |

Crimp Tools

Tool terminates cable shield to contact ferrule. Use with M22520/5 die sets.



Hex Dies

Hex die for crimping ferrule to cable braid. Hardened steel, black oxide finish.



809-130
(M22520/5-03)

859-051
(M22520/5-05)

Removal Tool



859-049
(M81969/14-12)

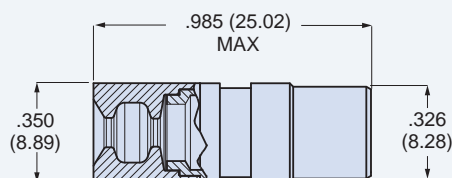
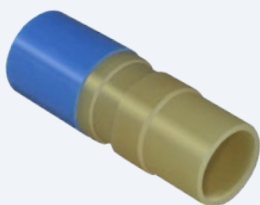
Reference Coax Cable Data

| | LLSB-200 | RG316 | RG316DS |
|----------------------------|-----------------|-----------------|-----------------|
| Manufacturer | Times Microwave | (mil spec) | (mil spec) |
| Military Part Number | M17/220-0001 | M17-113-RG316 | M17/152-00001 |
| Impedance | 50 ± 2 | 50 ± 2 | 50 ± 2 |
| Operating Frequency (Max) | 2.5 GHz | 3 GHz | 12.4 GHz |
| Temperature Range | -30° to +85°C | -55° to +200°C | -55° to +200°C |
| Continuous Working Voltage | 750 V rms, max. | 900 V rms, max. | 900 V rms, max. |
| Jacket Material | LSZH* | FEP | FEP |
| Jacket Diameter | .195 (4.95) | .098 (2.49) | .114 (2.90) |

*Low Smoke Zero Halogen cross-linked polyolefin

Sealing Boot

Sealing boots are supplied with contacts. To order contacts less the sealing boot, remove the "F" suffix from the part number.



| 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 |