

# 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

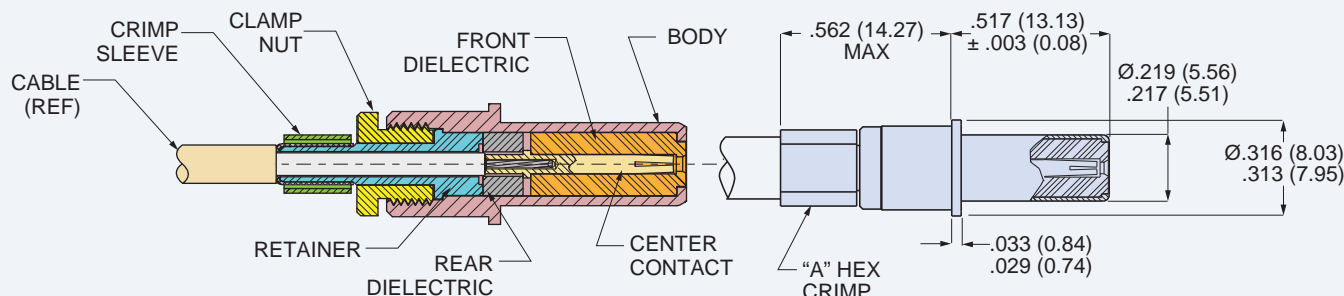


Socket Contact

Size #8 50 Ohm Matched-Impedance Coaxial Contacts						
RG Cable	Size	Max. Freq.	Pin Contact	Socket Contact	"A" Hex In.	mm.
<b>RG316</b> (M17/113-RG316)	8	3 GHz	<a href="#">852-031-02F</a>	<a href="#">852-030-02F</a>	.128	3.25
<b>RG316DS</b> (M17/152-00001)	8	6 GHz	<a href="#">852-031-01F</a>	<a href="#">852-030-01F</a>	.128	3.25
<b>LLSB-200</b> (M17/220-0001)	8	2.5 GHz	<a href="#">852-043F</a>	<a href="#">852-042F</a>	.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	<b>Center contact, body, retainer, clamp nut:</b> copper alloy, 50 microinches gold over nickel plating <b>Front and rear dielectric:</b> fluoroplastic <b>Sealing Boot:</b> 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

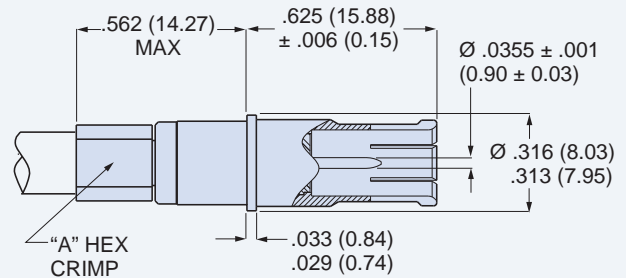
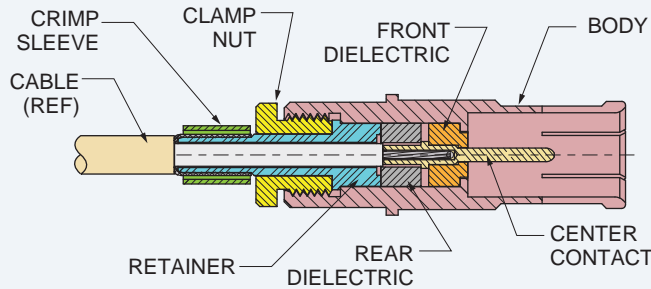
for MIL-DTL-38999, SuperNine®, Mighty Mouse and Micro-Crimp® Connectors



## 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)	<b>809-129</b> (M22520/5-01)	<b>809-130</b> (M22520/5-03)	<b>859-049</b> (M81969/14-12)	AI85011
852-031	(Solder termination)	(Solder termination)	<b>809-129</b> (M22520/5-01)	<b>809-130</b> (M22520/5-03)	<b>859-049</b> (M81969/14-12)	AI85012
852-042	(Solder termination)	(Solder termination)	<b>809-129</b> (M22520/5-01)	<b>859-051</b> (M22520/5-05)	<b>859-049</b> (M81969/14-12)	AI85040
852-043	(Solder termination)	(Solder termination)	<b>809-129</b> (M22520/5-01)	<b>859-051</b> (M22520/5-05)	<b>859-049</b> (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.



#### Removal Tool



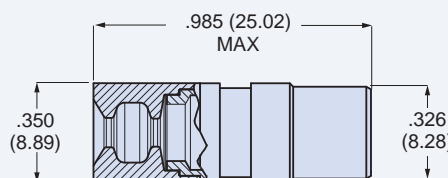
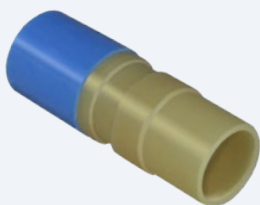
#### Reference Coax Cable Data

	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	<b>859-042-01</b>
.130 - .170	3.3 - 4.3	<b>859-042-02</b>
.170 - .205	4.3 - 5.2	<b>859-042-03</b>