



# SERIES 80 Mighty Mouse Connectors



## Size #8, 4 GHz Max Frequency, 75 Ohm Low-Loss Matched-Impedance Coax Contacts

### SIZE #8 COAXIAL CONTACTS



852-056  
Pin Contact



852-057  
Socket Contact



852-082  
Pin Contact

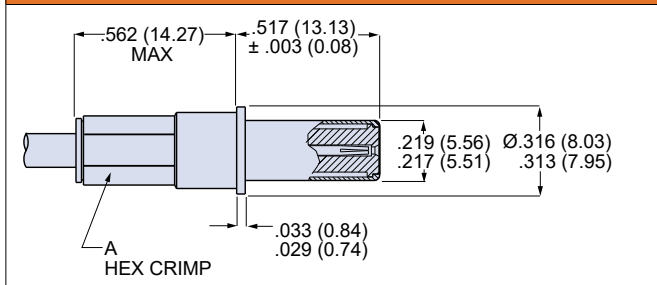


852-083  
Socket Contact

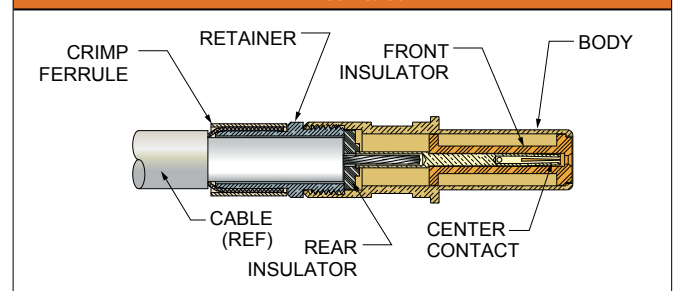
Size 8 coax contacts fit aerospace-grade digital video cable. 75 Ohm nominal impedance. 0-4 GHz frequency range. Crimp termination. Supplied as unassembled kit with contact body, center contact, outer ferrule and sealing boot. These snap-in, rear-release contacts fit Glenair Series 80 Mighty Mouse connectors with size 8 contact cavities. Gold-plated copper alloy, fluoroplastic insulators.

Size 8, 75 Ohm Matched-Impedance Coaxial Contacts						Hex A Crimp Dim
Cable	Contact without Sealing Boot		Contact with Sealing Boot		Sealing Boot	
	Pin	Socket	Pin	Socket		
960-130 (V7568) 960-131 (V76261) 960-132 (V73263)	852-056-01	852-057-01	852-056-01F	852-057-01F	859-042-01	.218 (5.54)
RG179 (M17/94-RG179)	852-056-02	852-057-02	852-056-02F	852-057-02F	859-042-01	.128 (3.25)
V78209 (PIC™ Wire and Cable)	852-082-01	852-083-01	852-082-01F	852-083-01F	687-754-8-8	.231 (5.87)
LMR-240-75 (Times Microwave)	852-082-02	852-083-02	852-082-02F	852-083-02F	687-754-8-9	.231 (5.87)

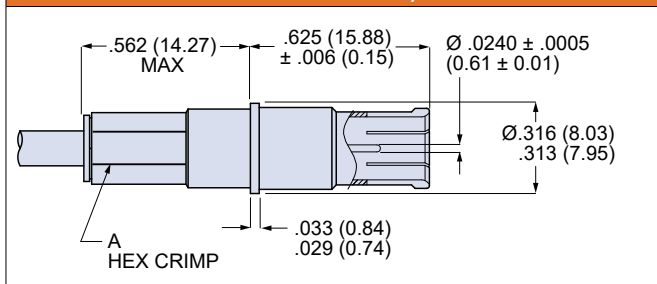
Pin Contact 852-056-01/-02, 852-082-01/-02



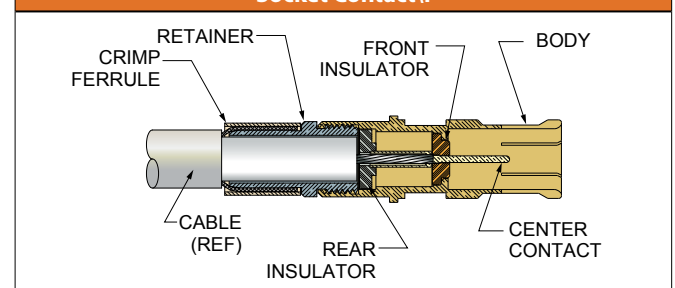
Pin Contact



Socket Contact 852-057-01/-02, 852-083-01/-02



Socket Contact





# SERIES 80 Mighty Mouse Connectors



## Size #8, 4 GHz Max Frequency, 75 Ohm Low-Loss Matched-Impedance Coax Contacts

### SIZE #8 COAXIAL CONTACT CRIMP TOOLS AND SEALING BOOT

Crimp Tools, Removal Tool, Assembly Instruction Sheet						
Contact Part Number	Crimp Tools				Removal Tool	Assembly Instruction Sheet
	Inner Contact		Shield Crimp Sleeve			
	Crimper	Positioner	Crimper	Hex Die		
852-056-01	809-015 (M22520/2-01)	809-240 (M22520/2-37)	809-129 (M22520/5-01)	859-047 (M22520/5-45)	859-049 (M81969/14-12)	AI85028
852-057-01	809-015 (M22520/2-01)	809-240 (M22520/2-37)	809-129 (M22520/5-01)	859-047 (M22520/5-45)	859-049 (M81969/14-12)	AI85028
852-056-02	809-015 (M22520/2-01)	809-240 (M22520/2-37)	809-129 (M22520/5-01)	809-130 (M22520/5-03)	859-049 (M81969/14-12)	AI85059
852-057-02	809-015 (M22520/2-01)	809-240 (M22520/2-37)	809-129 (M22520/5-01)	809-130 (M22520/5-03)	859-049 (M81969/14-12)	AI85059
852-082	809-015 (M22520/2-01)	809-240 (M22520/2-37)	809-129 (M22520/5-01)	859-047 (M22520/5-45)	859-049 (M81969/14-12)	AI85060
852-083	809-015 (M22520/2-01)	809-240 (M22520/2-37)	809-129 (M22520/5-01)	859-047 (M22520/5-45)	859-049 (M81969/14-12)	AI85036

Technical Data
<b>Specifications</b> <ul style="list-style-type: none"> <li>Operating temperature: -65°C. to +200°C.</li> <li>Dielectric withstanding voltage: 500 Vac rms at sea level</li> <li>Current rating: 1 ampere</li> <li>VSWR: 1.25:1 max. @ 4 GHz</li> <li>75 Ohm nominal impedance</li> <li>Durability: 500 mating cycles</li> <li>Shock: EIA-364-27 condition D</li> <li>Vibration: EIA-364-28 condition VI, letter J</li> </ul>
<b>Construction</b> <ul style="list-style-type: none"> <li>Center contact, body, retainer, clamp nut, ferrule: copper alloy, 50 microinches gold over nickel plating</li> <li>Front and rear insulator: fluoropolymer</li> <li>Sealing boot: fluorosilicone rubber, glass-filled PEI</li> </ul>

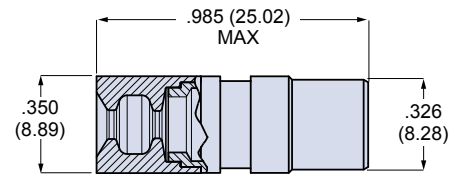
#### Sealing Boot

Optional sealing boot is recommended. Slide boot onto wire before terminating contact. After contact is installed in connector, slide boot forward into connector grommet to seal the contact cavity. "F" suffix on contact part number specifies contact supplied with sealing boot.

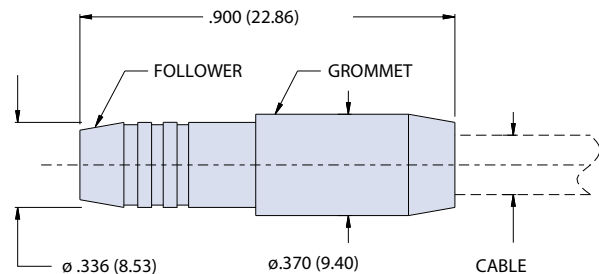
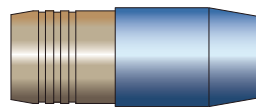
#### Sealing Boot 859-042-01



Sealing Boot Dimensions		
Wire Dia. (in.)	Wire Dia. (mm.)	Part Number
.090 - .130	2.3 - 3.3	859-042-01
.200 - .225	5.08 - 5.715	687-754-8-8
.225 - .240	5.715 - 6.096	687-754-8-9



#### Sealing Boot 687-754-8-8/-9





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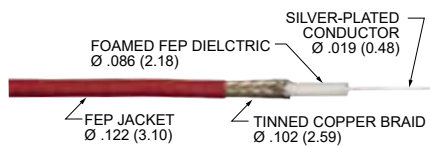


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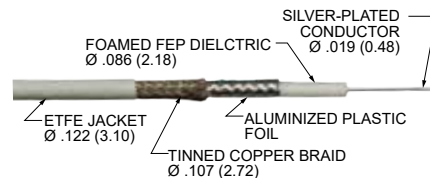
### SIZE #8 COAXIAL CONTACT 75 OHM CABLE

PIC™ brand video cable is specially designed and manufactured for reliable performance in aircraft systems and other harsh environments involving high temperature, EMI and corrosive materials. Improved strength, lower attenuation, and better shielding compared with M17/94-RG179. Silver-plated conductor, foamed FEP dielectric, tinned copper braid, FEP or ETFE jacket. Skydrol resistant, RoHS compliant, meets FAA FAR Parts 23 and 25, Appendix F flammability, complies with MIL-DTL-17.

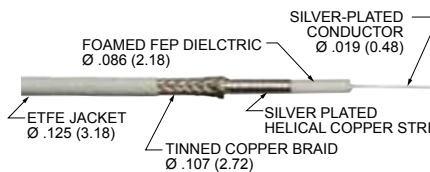
#### PIC™ V75268



#### PIC™ V76261



#### PIC™ V73263



Glenair Part No.	960-130	960-131	960-132			
Manufacturer Part No.	V75268	V76261	V73263			
Manufacturer	Picwire	Picwire	Picwire			
Impedance (Ohms)	75	75	75			
Velocity of Propagation %	80	80	80			
Capacitance (pF/ft)	16.0	16.0	16.0			
Conductor Wire Size	AWG 26 Stranded SPC	AWG 26 Stranded SPC	AWG 26 Stranded SPC			
Outer Diameter	0.12 (3.10)	0.12 (3.10)	0.13 (3.18)			
Dielectric	Foamed Fluoropolymer	Foamed Fluoropolymer	Foamed Fluoropolymer			
First Shield	Tinned copper braid, 95% coverage					
Second Shield	None	Aluminized film, 100% coverage	Silver plated helical copper strip, 100%			
Shielding Effectiveness (dB)	50	90	110			
Video Application	RS170	RS170	SMPTE 292M			
Temperature Rating	-65° to +165° C	-65° to +165° C	-65° to +165° C			
Weight (lbs/100 ft.)	1.2 lbs	1.1 lbs	1.5 lbs			
Time Delay	1.28	1.28	1.28			
Attenuation (dB/100 ft)	Nominal	Max.	Nominal	Max.	Nominal	Max.
1 MHz	0.51	0.55	0.49	0.52	0.43	0.58
10 MHz	1.70	1.77	1.6	1.71	1.4	1.6
100 MHz	5.3	5.7	5.1	5.5	4.5	5.0
400 MHz	11.1	11.8	10.6	11.3	9.6	10.6
1.45 GHz	23.0	24.6	21.9	23.4	20.0	22.0
3 GHz	35.0	37.4	33.7	36.1	30.9	34.0



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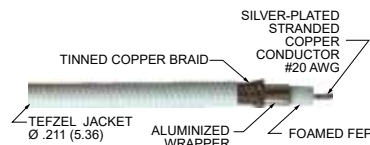


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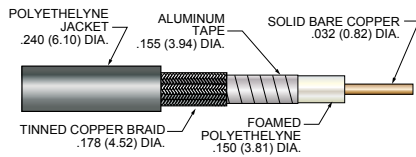
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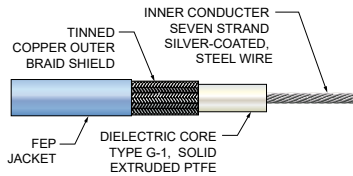
#### PIC™ V78209



#### LMR®-240-75



#### M17/94 RG179



Glenair Part No.	962-007	N/A	N/A			
Manufacturer Part No.	V78209	LMR-240-75	N/A			
Military Part Number	N/A	N/A	M17/94-RG179			
Manufacturer	PIC™	Times Microwave	MIL-SPEC			
Impedance (Ohms)	75	75	75 ±3			
Velocity of Propagation %	80	84	69.5			
Capacitance (pF/ft)	16.5	16.1	23			
Conductor Wire Size	20 AWG Stranded SPC	.032 (.82)	.0040 (0.10)			
Outer Diameter	.21 (5.36)	.240 (6.10)	.100 (2.54)			
First Shield	Tin-Coated Braid	Tin-Coated Braid	7 strand SC <sup>1</sup> , ACC <sup>2</sup> , steel wire			
Second Shield	Aluminized film, 100% coverage	Aluminized film, 100% coverage	None			
Temperature Rating	-55° to +150° C	-40° to +85° C	-55° to +200° C			
Weight (lbs/100 ft.)	3.0	3.4	.012 (lbs/ft.)			
Max. Attenuation	Freq.	dB/100 ft	Freq.	dB/100 ft	Freq.	dB/100 ft
	1 MHz	0.4	50 MHz	1.6		
	10 MHz	0.9	450 MHz	5.0		
	100 MHz	3.0	900 MHz	7.2	4 GHz	21.0
	400 MHz	6.1	1.5 GHz	9.4		
	1.45 GHz	13.6	2.0 GHz	10.9		
	3 GHz	25.0	2.5 GHz	12.3		

1. SC = silver coated
2. ACC = annealed copper covered