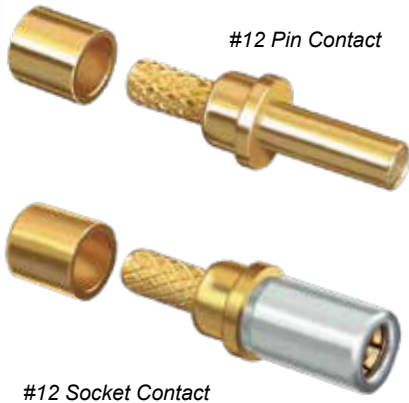


# SERIES 80 Mighty Mouse connectors



Size #12, 3 GHz Max Operating Frequency,  
Matched Impedance, 50 Ohm Coax Contacts

## CABLE INFORMATION FOR SIZE #12, 50 OHM MATCHED IMPEDANCE COAXIAL CONTACTS



These contacts offer improved frequency response compared to standard coaxial contacts above. VSWR is 1.32:1 at 3GHz. Nominal impedance is 50 Ohms. Insertion loss at 3GHz is 0.20 dB maximum. Inner contact is rated at 1 amp, the outer contact 12 amps. DWV voltage rating is 1000 Vac rms sea level, 250 VAC at 50,000 feet. Contacts are packaged individually and shipped unassembled with instruction sheet. Inner and outer contacts are gold-plated copper alloy. 5000 megOhm insulation resistance.

Contact Type	Cable Type	Part Number	Termination	Fig.
Pin	M17/113-RG316	<a href="#">852-016-01</a>	Crimp	1
Pin	M17/152-00001(RG316DS)	<a href="#">852-016-02</a>	Crimp	1
Pin	M17/93-RG178	<a href="#">852-016-03</a>	Crimp	1
Pin	TFLEX-405	<a href="#">852-018</a>	Solder	2
Socket	M17/113-RG316	<a href="#">852-015-01</a>	Crimp	3
Socket	M17/152-00001(RG316DS)	<a href="#">852-015-02</a>	Crimp	3
Socket	M17/93-RG178	<a href="#">852-015-03</a>	Crimp	3
Socket	TFLEX-405	<a href="#">852-017</a>	Solder	4

Contact	Inner Contact		Outer Contact		Installation Tool	Removal Tool
	Crimp Tool	Positioner	Crimp Tool	Hex Die		
852-016-01, -02 852-015-01, -02	<a href="#">809-128</a>	<a href="#">859-006</a>	<a href="#">809-129</a> (M22520/5-01)	<a href="#">809-130</a> (M22520/5-03)	M81969/8-07	M81969/8-07
852-016-03 852-015-03	<a href="#">809-128</a>	<a href="#">859-124</a>	<a href="#">809-129</a> (M22520/5-01)	<a href="#">809-130</a> (M22520/5-03)	M81969/8-07	M81969/8-08

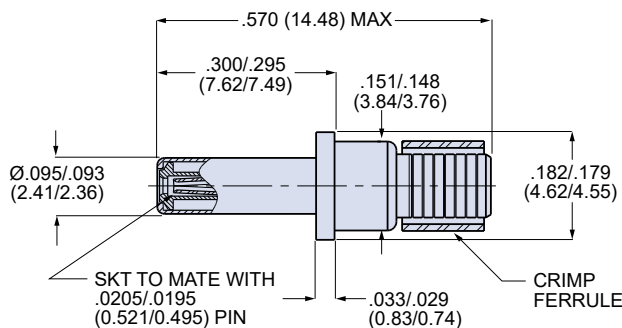


Figure 1

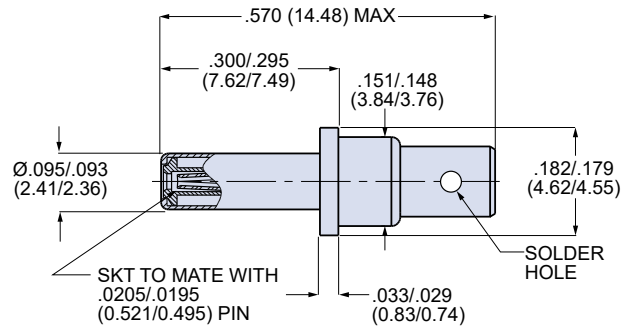


Figure 2

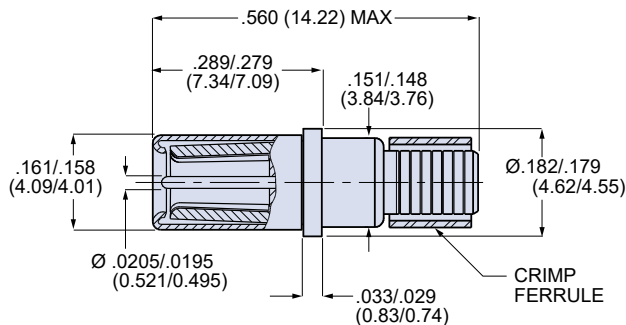


Figure 3

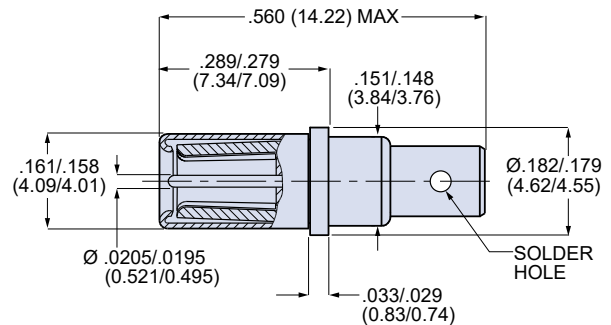
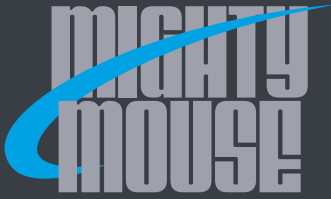


Figure 4

CONTACTS AND TOOLS



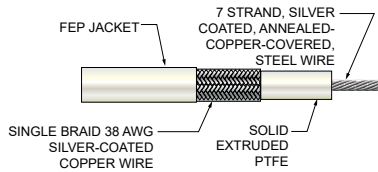
# SERIES 80 Mighty Mouse connectors



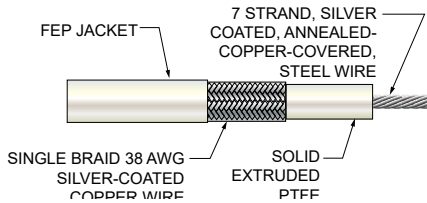
## Size #12, 3 GHz Max Operating Frequency, Matched Impedance, 50 Ohm Coax Contacts

### CABLE INFORMATION FOR SIZE #12, 50 OHM MATCHED IMPEDANCE COAXIAL CONTACTS

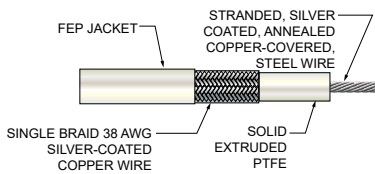
#### M17/113 RG316



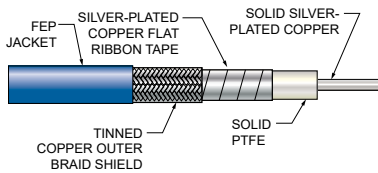
#### M17/152-00001



#### M17/093 RG178



#### TFLEX-405



Military Part Number	RG316 (M17/113-RG316)	RG316DS (M17/152-00001)	RG178 (M17/093-RG178)	TFLEX-405
Impedance	50	50	50	50
Velocity of Propagation %	69.5	69.5	69.5	69.5
Capacitance (pF/ft)	32.0	32.0	32.0	29.3
Conductor Diameter	.0201 (0.51)	.0201	.012	.0201
Conductor Type	7 Strand SC <sup>2</sup> , ACC <sup>3</sup> Steel Wire	7 Strand SC <sup>1</sup> , ACC <sup>2</sup> Steel Wire	7 Strand SC <sup>1</sup> , ACC <sup>2</sup> Steel Wire	Solid Silver-Plated Copper
Dielectric Diameter	.060 (1.52)	.060 (1.52)	.033 (0.84)	.0064 (0.16)
Inner Shield Coverage	95.2% nom.	95.4% nom	95.9% nom	--
Inner Shield	N/A	N/A	N/A	Silver-Plated Copper Flat Ribbon Tape
Outer Shield Diameter	.081 (2.06)	.096 (2.44)	.054 (1.37)	.085 (2.16)
Outer Braid Coverage	94.6% nom.	94.6% nom	N/A	--
Jacket	Extruded FEP Transparent	Extruded FEP Transparent	Extruded FEP Transparent	Teflon FEP Color: Blue
Outer Diameter	.098 (2.49)	.114 (2.90)	.071 (1.80)	.104 (2.64)
Weight	1.22 lbs/100ft	1.85 lbs/100ft	.625 lbs/100ft	.015 lbs/ft
Temperature Range	-55° to +200°C	-55° to +200°C	-55° to 200°C	-65°C to +125°C
Frequency	Attenuation (dB/100 ft) nominal			
50 MHz	7.5	7.5	11.6	
100 MHz	11		16	6.4
400 MHz	21		33	13.1
500 MHz		26		
1 GHz	38	40	52	21.1
3.0 GHz	58	75	94	38.0
10.0 GHz		170		75.0
12.4 GHz		230		
13500				41.0
16000				46.0
18000				50.0

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