

RF, Microwave and Datalink Contacts

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



Spring-Loaded Microwave Frequency Coaxial Contacts

Size #12 SMPM-Type Contacts for DC – 40 GHz



Male Contact
(for use in socket connectors)



Female Contact
(for use in pin connectors)

50 ohm high frequency size #12 coaxial contacts fit Glenair Series 80 Mighty Mouse connectors, Glenair Series 79 Micro-Crimp®, Glenair Series 23 SuperNine® and MIL-DTL-38999 connectors. Maximum operating frequency 40 GHz. Spring-loaded male contact assures consistent mating dimensions and superior microwave performance. Supplied fully assembled with cable termination instruction sheet.

- DC – 40 GHz frequency range
- 50 ohm impedance
- Aerospace-grade construction
- SMPM-type Interface per MIL-DTL-348
- Spring-loaded interface
- Low insertion loss
- Solderless center contact
- VSWR 1.3 at 40 GHz

Size 12 50 Ohm SMPM-Type Coaxial Contacts for DC – 40 GHz

Cable	Female Contact (Use in Pin Connectors)	Male Contact (Use in Socket Connectors)	
		M38999 Series I, III, IV	M38999 Series II Series 79, 80
RG-405 Flex (Times Microwave TFlex-405) Tensolite LLF-1087)	852-025-01	852-024-01	852-032-01

Technical Data

Specifications

- Operating temperature: -55°C. to +125°C.
- Dielectric withstanding voltage: 500 Vac
- Ins. resistance: 5000 megohms min.
- Frequency range: DC – 40 GHz
- VSWR: 1.10 + (.005 x Freq GHz)
- 50 ohm nominal impedance
- Insertion loss: .04 x √(Freq in GHz)
- RF leakage: -(90 – Freq GHz)
- Durability: 500 mating cycles
- Shock: EIA-364-27 condition D
- Vibration: EIA-364-28 condition VI, letter J

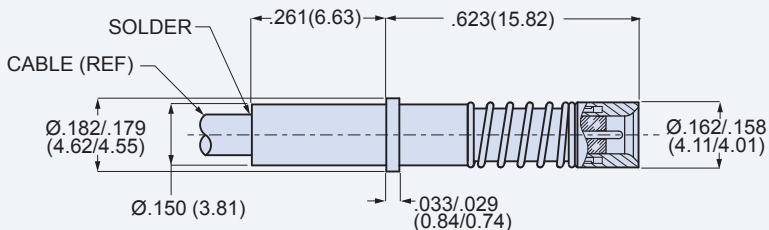
Construction

- **Center contact:** copper alloy, 50 microinches gold over nickel plating
- **Dielectric:** PTFE per ASTM D-1710
- **Female body:** copper alloy, 50 microinches gold over nickel plating
- **Male body:** stainless steel, passivated
- **Male contact spring:** high carbon steel (music wire), nickel plated

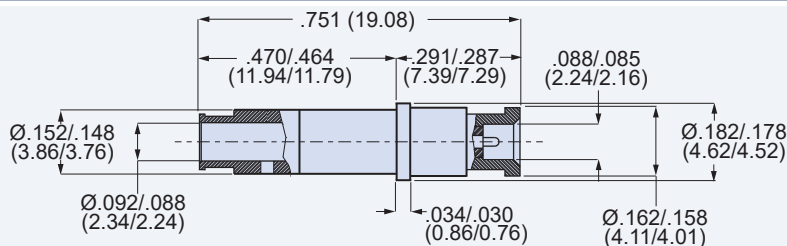
Connector Compatibility

- MIL-DTL-38999 Series I, II, III and IV
- Glenair Series 23 SuperNine®
- Glenair Series 79 Micro-Crimp®
- Glenair Series 80 Mighty Mouse

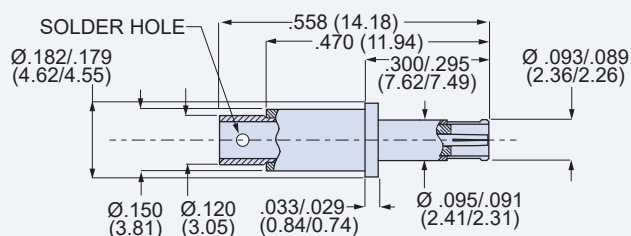
Male Contact 852-024-01



Male Contact 852-032-01



Female Contact 852-025-01



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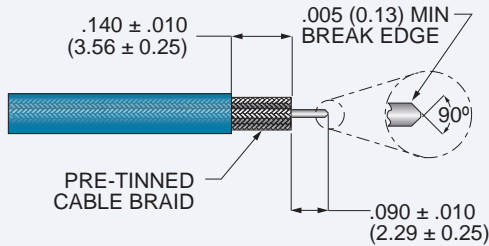


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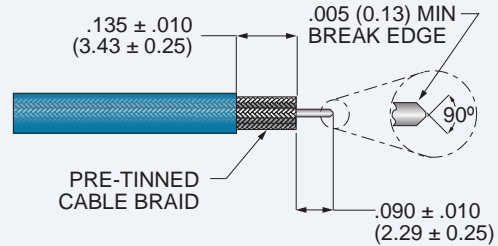
Cable Prep Dimensions for 852-024 and 852-025

Slide prepped cable into contact, then solder cable braid to contact body. See Assembly Instruction Sheet AI85009 for complete termination instructions.

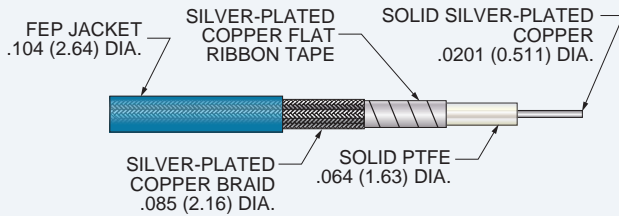


Cable Prep Dimensions for 852-032

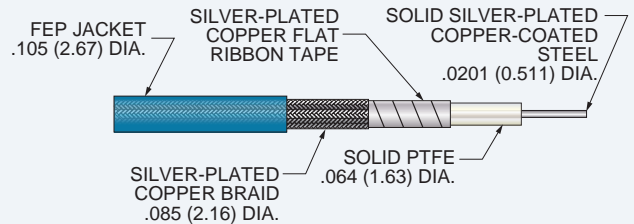
Slide prepped cable into contact, then solder cable braid to contact body. See Assembly Instruction Sheet AI85010 for complete termination instructions.



Tflex®-405 Microwave Cable



LLF-1087 Microwave Cable



Glenair Part No.	962-001-405	
Mfgr Part No.	TFlex®-405	
Manufacturer	Times Microwave	
Impedance (ohms)	50	
Shielding Effectiveness (dB)	>100dB	
Temperature Rating	-65 °C to +125 °C	
Minimum Bend Radius	0.25 in. (6.4 mm.)	
Weight (lbs/ft.)	.015	
Capacitance (pF/ft)	29.3	
Velocity of Propagation %	69.5	
Cutoff Frequency	60 GHz	
Attenuation and Power	dB/100 ft	Watts
100 MHz	6.4	401
400 MHz	13.1	195
1 GHz	21.1	119
2 GHz	31.0	81
3 GHz	38.0	65
10 GHz	75.0	31
12 GHz	83.0	28
13.5 GHz	89.0	26
16 GHz	99.0	23
18 GHz	106.0	21

Manufacturer Part No.	LLF-1087
Manufacturer	Tensolite
Impedance (ohms)	50
Shielding Effectiveness (dB)	90
Minimum Bend Radius	0.5 in. (12.7mm)
Weight (lbs/ft.)	.013
Capacitance (pF/ft)	29
Velocity of Propagation %	70
Attenuation	dB/100 ft
400 MHz	13.7
1 GHz	22.2
3 GHz	38.9
10 GHz	74.9
18 GHz	104.3