

## N Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF Cable

### Times Microwave Systems Connector Specification

Type N male connector with solder/solder attachment for TFT-402 and TFT-402-LF, part number TC-402-NM-LP, from Fairview Microwave is in-stock and ships same day. This type N male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The type N male connector also has low passive intermodulation (PIM) of -160 dBc.

Fairview's type N male connector TC-402-NM-LP datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Insertion Loss			0.24	dB
Passive Intermodulation			-160	dBc
Operating Voltage (DC)			2,500	Vdc
Insulation Resistance	10,000			MOhms

Electrical Specification Notes:  
Insert Loss is  $0.1 * \sqrt{F \text{GHz}}$

### Mechanical Specifications

<b>Size</b>	
Length	1.043 in [26.49 mm]
Width/Dia.	0.808 in [20.52 mm]
Mating Cycles	500 Cycles
Mating Torque	15 in-lbs [1.70 Nm]

### Material Specifications

Description	Material	Plating
Contact	Brass	Silver 200 $\mu$ in
Insulation	PTFE	
Body	Brass	Tri-Metal 80 $\mu$ in
Coupling Nut	Brass	Tri-Metal 80 $\mu$ in



### Configuration:

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- TFT-402, TFT-402-LF Interface Type
- Solder/Solder Attachment
- Low PIM Design

### Features:

- Operating Frequency of 6 GHz Max.
- Good VSWR of 1.3:1
- PIM levels better than -160 dBc
- Silver Plated Brass Contact
- 200  $\mu$ in contact plating

### Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications
- Distributed Antenna Systems (DAS)

Gasket	Silicone Rubber
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## Environmental Specifications

### Temperature

Operating Range	-40 to +125 deg C
Shock	MIL-STD 202G, Meth. 213, Cond. I
Vibration	MIL-STD 202G, Meth. 204, Cond. B
Thermal Shock	MIL-STD 202G, Meth. 107, Cond. B

Environmental Specification Notes:

Climatic Class: IEC 60068 55/155/56

## Compliance Certifications

(see [product page](#) for current document)

## Plotted and Other Data

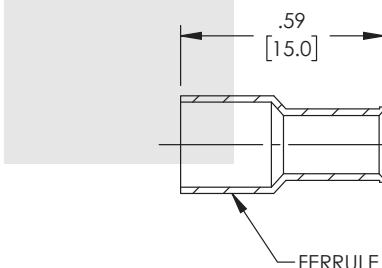
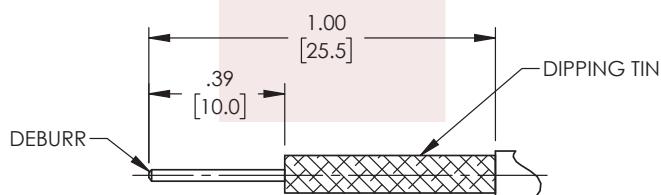
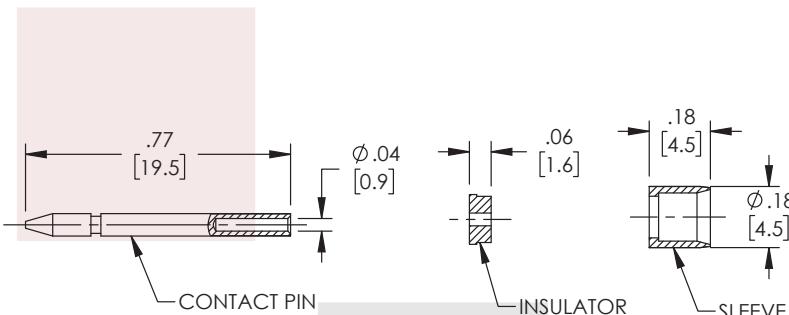
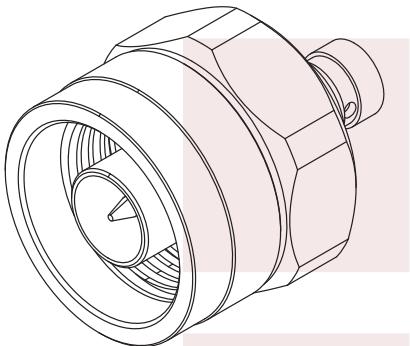
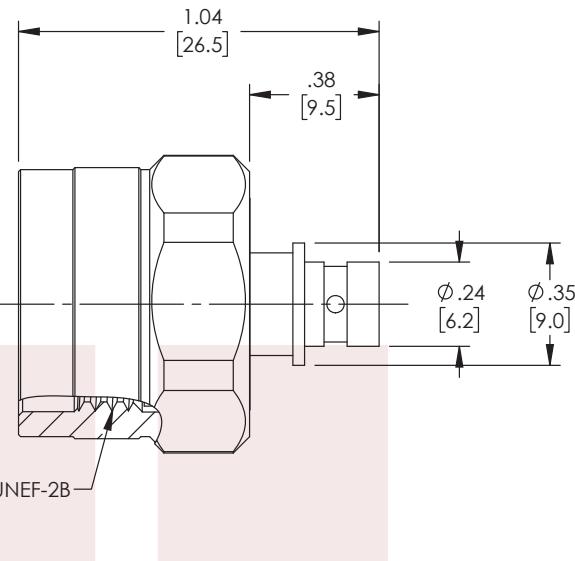
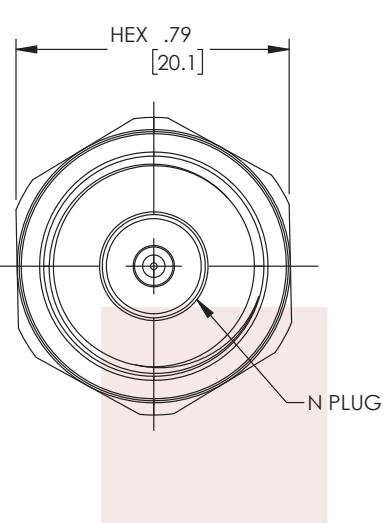
Notes:

N Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [N Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF Cable TC-402-NM-LP](#)

URL: <https://www.fairviewmicrowave.com/n-male-tft-402-connector-tc-402-nm-lp-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



RECOMMENDED CABLE STRIPPING DIM'S  
Connector adds: 17 mm

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<b>Fairview Microwave</b> an INFINITE brand	UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS		  THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1
	<b>TOLERANCES:</b> X = ± 2 [5.08] FRACTIONS XX = ± 02 [ .51 ] ± 1/32 XXX = ± .005 [ .13 ] ANGLES ± 1°	<b>CABLE LENGTH (L) TOLERANCES:</b> L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE	2:1
SIZE A	CAGE CODE 3FKR5	DRAWN BY DMAY	ITEM NO. TC-402-NM-LP REV A

T-Rev.D