

## 1.0/2.3 Plug Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF Cable

### Times Microwave Systems Connector Specification

1.0/2.3 plug connector with solder/solder attachment for TFT-402 and TFT-402-LF, part number TC-402-1023M-LP, from Fairview Microwave is in-stock and ships same day. This 1.0/2.3 plug connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.3:1. The 1.0/2.3 plug connector also has low passive intermodulation (PIM) of -150 dBc.

Fairview's 1.0/2.3 plug connector TC-402-1023M-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			-150	dBc
Operating Voltage (DC)			2,500	Vdc
Insulation Resistance	10,000			MOhms

Electrical Specification Notes:  
Insertion Loss is  $0.1 * \sqrt{f(\text{GHz})}$

### Mechanical Specifications

<b>Size</b>	
Length	0.93 in [23.62 mm]
Width/Dia.	0.33 in [8.38 mm]
Mating Cycles	500 Cycles

### Material Specifications

Description	Material	Plating
Contact	Brass	Silver 200 µin
Insulation	PTFE	
Body	Brass	Tri-Metal 80 µin
Coupling Nut	Brass	Tri-Metal 80 µin



### Configuration:

- 1.0/2.3 Plug 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 -150 dBc
- Silver Plated Brass Contact
- 200 µin contact plating

### Applications:

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

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
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Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## 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

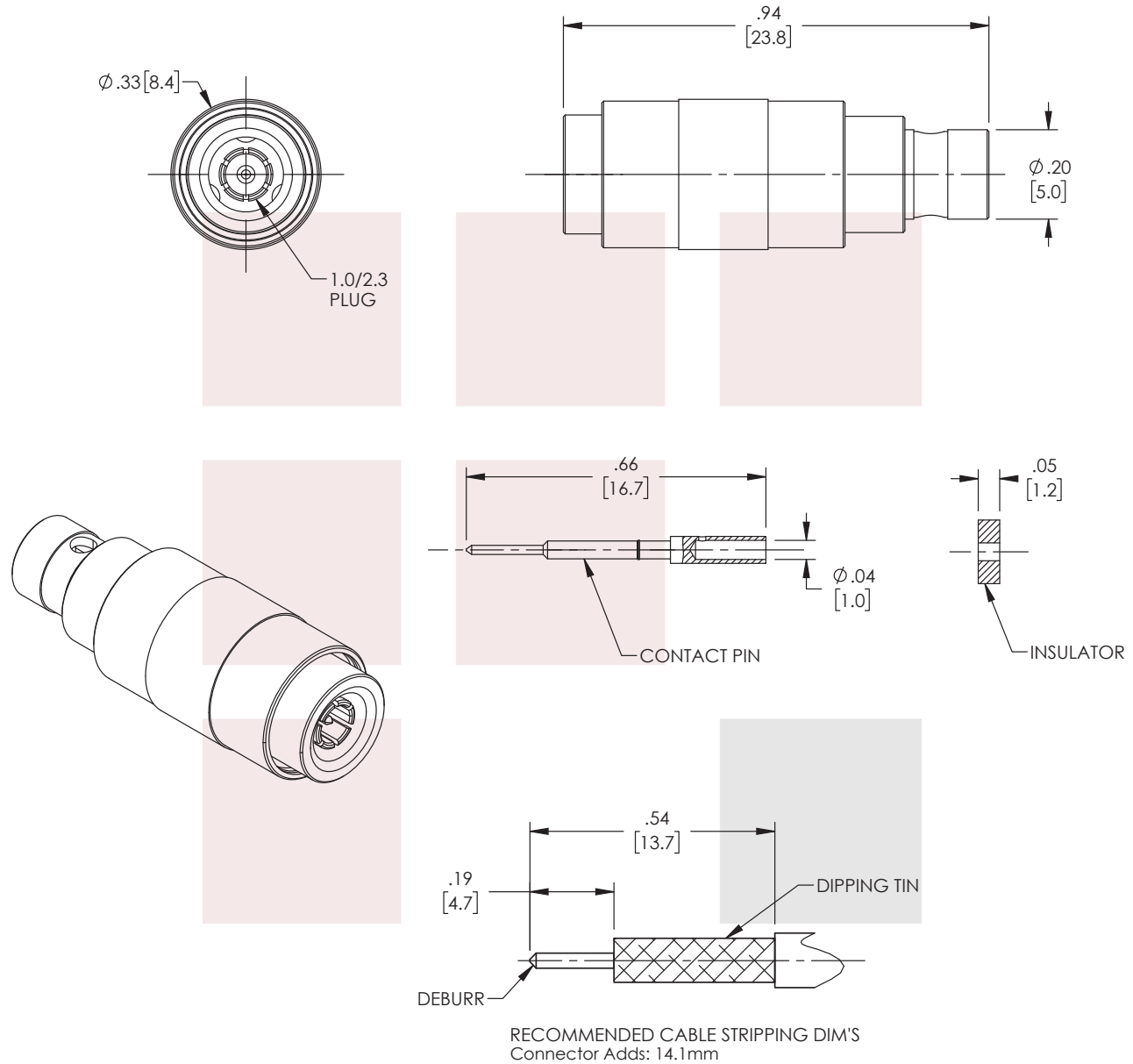
Notes:

1.0/2.3 Plug 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: [1.0/2.3 Plug Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF Cable TC-402-1023M-LP](#)

URL: <https://www.fairviewmicrowave.com/1.0-2.3-plug-tft-402-connector-tc-402-1023m-lp-p.aspx>

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TITLE

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

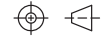
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE 3:1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE  
A

CAGE CODE  
3FKR5

DRAWN BY  
DMAY

ITEM NO.  
TC-402-1023M-LP

REV  
A

T-Rev.D

## 1.0/2.3 Plug Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF Cable

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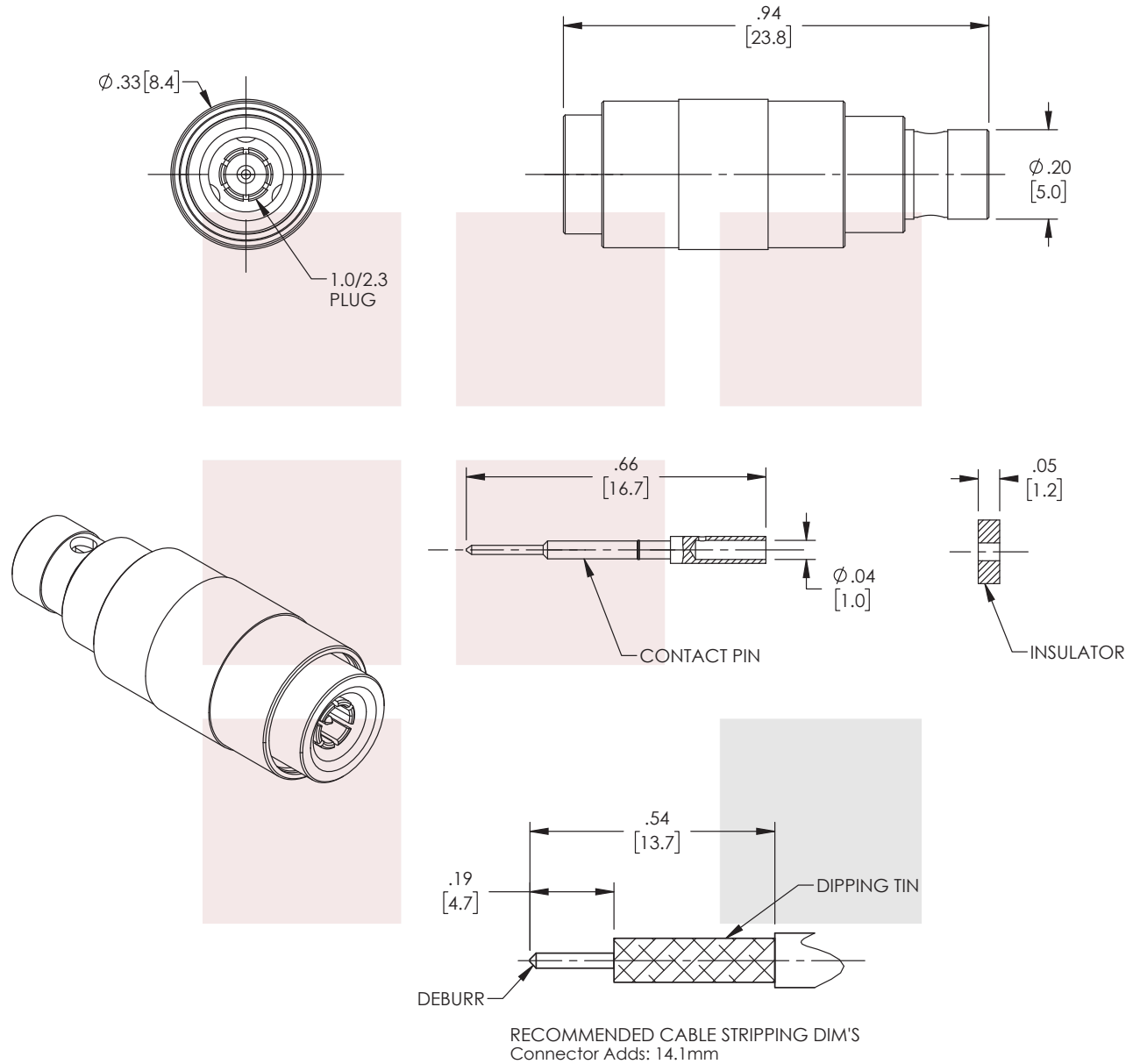
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URL: <https://www.fairviewmicrowave.com/1.0-2.3-plug-tft-402-connector-tc-402-1023m-lp-p.aspx>

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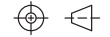
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SHEET 1 OF 1

SCALE 3:1

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SIZE A	CAGE CODE 3FKR5	DRAWN BY DMAY	ITEM NO. TC-402-1023M-LP	REV A
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T-Rev.D

## TFT-5G-402 Low PIM Flexible Coax Cable Blue FEP Jacket

### Times Microwave Systems Coax Cable Specification

TFT-5G-402 low pim plenum rated coax cable by Times Microwave is in-stock and ships same day. The TFT-5G-402 coaxial cable features a taped PTFE dielectric, solid copper center conductor and a dual-layer outer conductor for enhanced shielding performance. The tough jacket, made from an FEP fluoropolymer, provides chemical resistance, moisture resistance and UV protection. These features combine to make the Times Microwave TFT-5G-402 an extremely flexible, low PIM coax cable, ideally suited for Small Cells, Distributed Antenna Systems (DAS) or plenum installations.

A datasheet and specifications for Times Microwave TFT-5G-402 coax cable, supplied by Fairview Microwave, are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave components allows designers to configure and customize their signal connections however they like. For providing low PIM jumper connections, low PIM feeder cables or connecting Small Cells, Fairview Microwave has the right cables for the job.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
Velocity of Propagation		76		%
Shielding Effectiveness	80			dB
Passive Intermodulation			-160	dBc
Nominal Capacitance		26.7 [87.6]		pF/ft [pF/m]

### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	1.9	2.3	4.9	5.8	GHz
Attenuation, Typ	7.9 25.92	16.4 53.81	18.2 59.71	27 88.58	29.5 96.78	dB/100ft dB/100m
Power In (CW), Max	430	200	180	120	110	Watts

### Mechanical Specifications

Diameter	0.16 in [4.06 mm]
Weight	0.028 lbs/ft [0.04 kg/m]
Min. Bend Radius (Installation)	0.75 in [19.05 mm]

### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strands	0.037 in [0.94 mm]
Conductor Type	Solid	



### Configuration:

- Low PIM Flexible Cable
- 2 Shield(s)

### Features:

- UL910 Plenum Rated Cable
- PIM < -160 dBc
- Good Shielding >80 dB
- Lightweight and Extremely Flexible
- Low Loss
- UV Resistant Jacket

### Applications:

- Small Cells
- Antenna Pigtails
- Plenum Installations
- Base Stations
- Multi-Carrier Communication Systems

Fairview Microwave  
 301 Leora Ln., Suite 100  
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 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Dielectric	PTFE	0.113 in [2.87 mm]
First Shield	Tin	0.121 in [3.07 mm]
Outer Conductor	Copper, Tin	0.16 in [4.06 mm]
Jacket	FEP, Blue	0.16 in [4.06 mm]

## Environmental Specifications

### Temperature

Operating Range -55 to +150 deg C

**Compliance Certifications** (see [product page](#) for current document)

## Plotted and Other Data

Notes:

TFT-5G-402 Low PIM Flexible Coax Cable Blue FEP Jacket from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

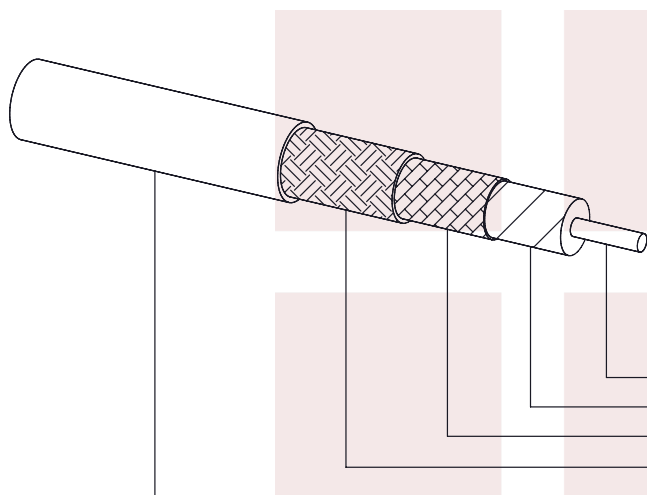
Click the following link to obtain additional part information: [TFT-5G-402 Low PIM Flexible Coax Cable Blue FEP Jacket TFT-5G-402](#)

URL: <https://www.fairviewmicrowave.com/tft-5g-402-low-pim-flexible-coax-cable-fep-jacket-tft-5g-402-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	09/13/2022	A. GANWAN



Center Conductor	.037 [0.94]	Bare Copper
Dielectric	.113 [2.87]	Taped PTFE
Shield	.121 [3.07]	Tin Plated Flat Braid
Outer Braid	.138 [3.51]	Tin Plated Copper Braid
Jacket	.160 [4.06]	Blue FEP

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