

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



RF Connectors Technical Data Sheet



TC-402-1023M-LP

Times Microwave Systems Connector Specification

Configuration

- 1.0/2.3 Plug Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TFT-402, TFT-402-LF
- Low PIM Design

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.3:1
- PIM levels lower than -150 dBc
- Silver Plated Brass Contact
- 200 µin contact plating

Applications

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

Description

Pasternack's TC-402-1023M-LP 1.0/2.3 plug connector with solder/solder attachment for TFT-402 and TFT-402-LF is part of our full line of RF components available for same-day shipping. Our 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 of -150 dBc.

Our 1.0/2.3 plug connector TC-402-1023M-LP datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	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 $0.1 \cdot \sqrt{f(\text{GHz})}$

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1.0/2.3 Plug Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF TC-402-1023M-LP](#)

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



RF Connectors Technical Data Sheet



TC-402-1023M-LP

Mechanical Specifications

Size

Length 0.93 in [23.62 mm]
Width/Dia. 0.33 in [8.38 mm]

Mating Cycles 500 Cycles
Cable Retention Force 112 lbs [50.8 kg]

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

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:

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RF Connectors Technical Data Sheet



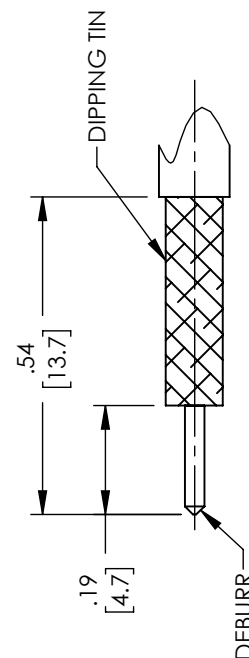
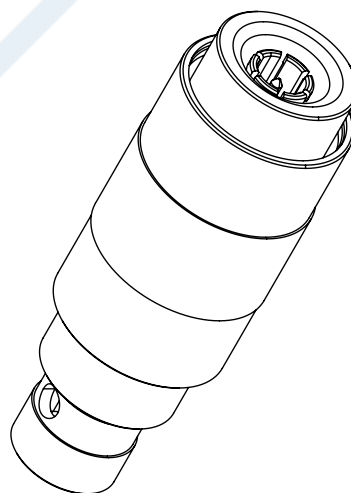
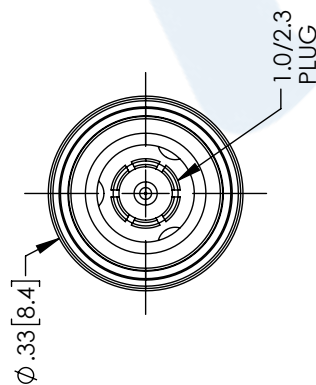
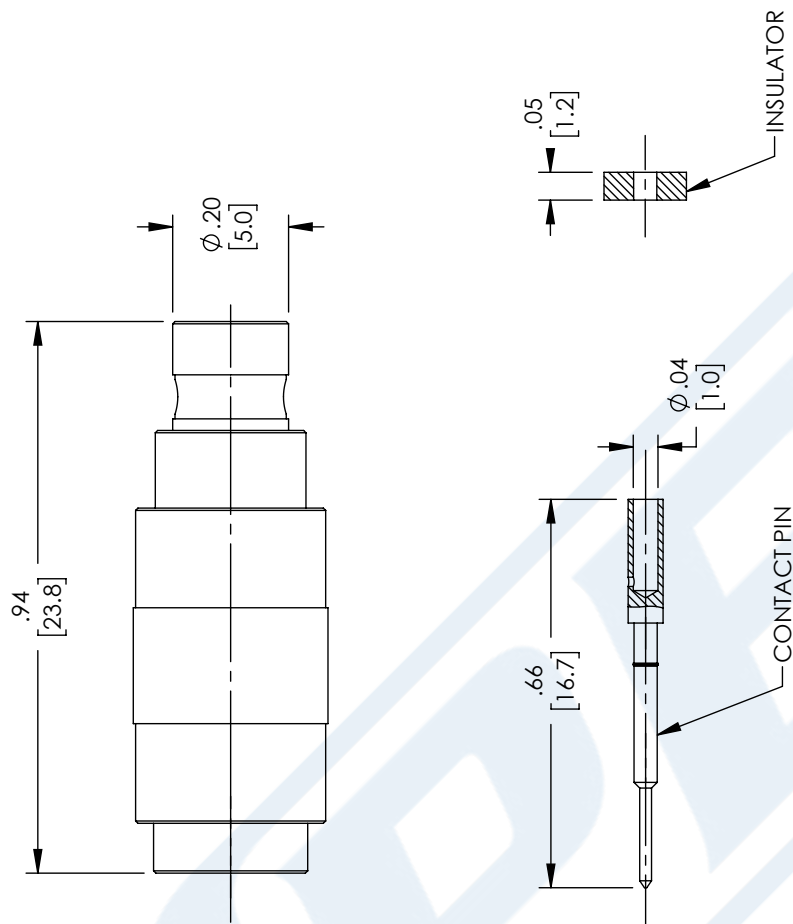
TC-402-1023M-LP

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

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RECOMMENDED CABLE STRIPPING DIM'S
Connector Adds: 14.1mm

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						ITEM NO. TC-402-1023M-LP	

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



RF Connectors Technical Data Sheet



TC-402-1023M-LP

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Applications

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

Description

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



RF Connectors Technical Data Sheet

Mechanical Specifications

Size

Length 0.93 in [23.62 mm]
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Mating Cycles 500 Cycles
Cable Retention Force 112 lbs [50.8 kg]

Material Specifications

Description	Material	Plating
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Temperature

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Shock MIL-STD 202G, Meth. 213, Cond. I
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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:

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

RF Connectors Technical Data Sheet



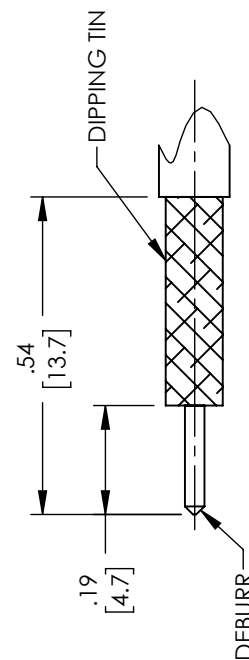
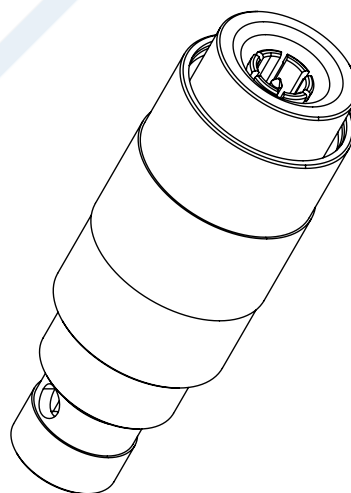
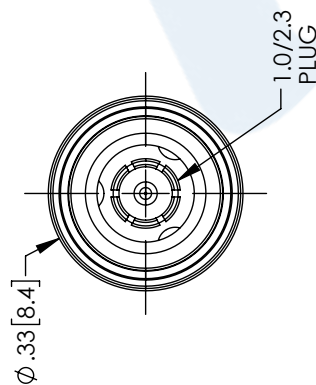
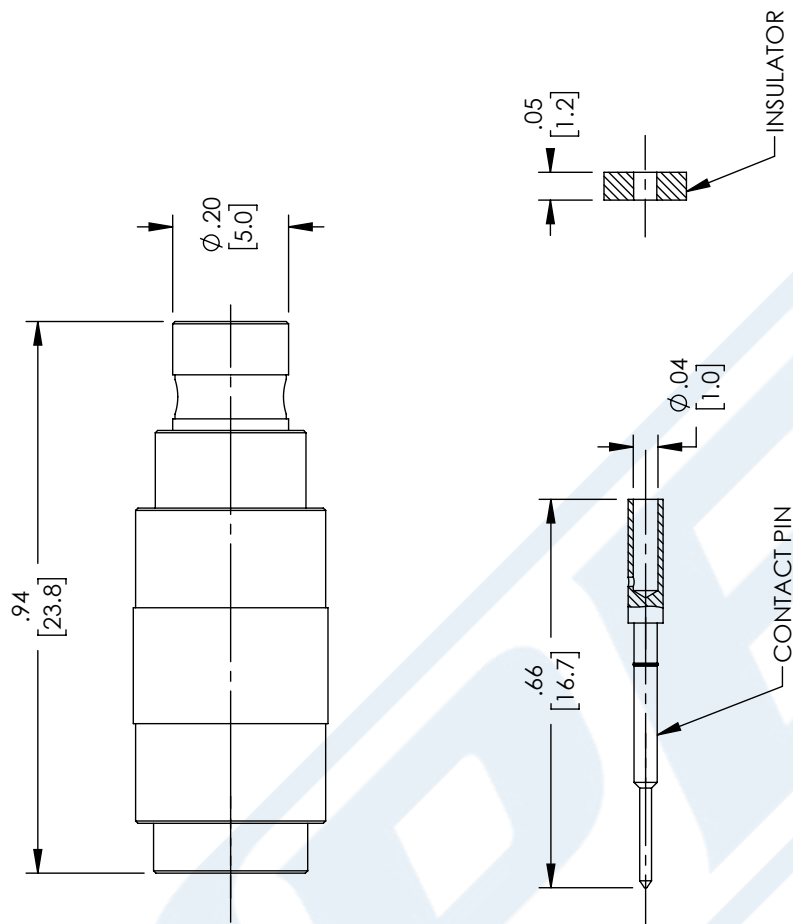
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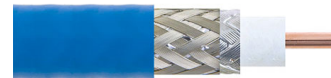
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.XXX = ± .005		[.13]	ANGLES ± 1°		3:1		
CABLE LENGTH (L) TOLERANCES:						SHEET	
L ≤ 12 [305] = ± .1 [25] / -0						1	
12 [305] < L ≤ 60 [1524] = ± .2 [51] / -0						OF	
60 [1524] < L ≤ 120 [3048] = ± .4 [102] / -0						1	
120 [3048] < L ≤ 300 [7620] = ± .6 [152] / -0						SCALE	
300 [7620] < L = ±.5% / -0						3:1	
SIZE		CAGE CODE		DRAWN BY		ITEM NO.	
A		53919		DMAY		TC-402-1023MLP	
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						A	



Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket

RF Cables Technical Data Sheet

TFT-5G-402

Times Microwave Systems Coax Cable Specification

Configuration

- Low PIM Flexible Cable
- 2 Shield(s)

Features

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

Applications

- Base Stations
- Antenna Pigtails
- Distributed Antenna Systems (DAS)
- Plenum Installations
- Small Cells
- Multi-Carrier Communication Systems

Description

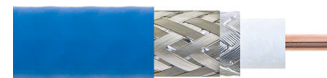
TFT-5G-402 low pim flexible coax cable by Times Microwave is part of our full line of RF components available for same-day shipping. The TFT-5G-402 plenum rated coaxial cable features a taped PTFE dielectric, solid copper center conductor and a dual-braid outer conductor. These features combine to make the Times Microwave TFT-5G-402 an extremely flexible, low loss and low PIM coax cable that is well suited for Distributed Antenna Systems (DAS), plenum installations or small cells. The tough, FEP jacket provides moisture, UV protection and resistance to corrosive environments.

Our datasheet specifications and drawing with dimensions for Times Microwave TFT-5G-402 coax cable are shown below in this PDF. Whether the need is to provide a low PIM jumper connection, low PIM antenna pigtails or simply create a custom cable assembly configuration, Pasternack has the right TFT-5G-402 cable assemblies for the job.

Electrical Specifications

Description	Minimum	Typical	Maximum	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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket TFT-5G-402](#)



Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket

RF Cables Technical Data Sheet

TFT-5G-402

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	16.4	18.2	27	29.5	dB/100ft
	25.92	53.81	59.71	88.58	96.78	dB/100m
Input Power (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]

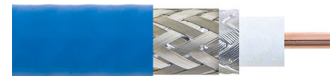
Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.113 in [2.87 mm]
First Shield	Tin	0.121 in [3.07 mm]
Outer Conductor	Copper, Tin	0 in [0 mm]
Jacket	FEP, Blue	0.16 in [4.06 mm]

Environmental Specifications

Temperature	
Operating Range	-55 to +150 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket TFT-5G-402](#)



Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket

RF Cables Technical Data Sheet

TFT-5G-402

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

Plotted and Other Data

Notes:

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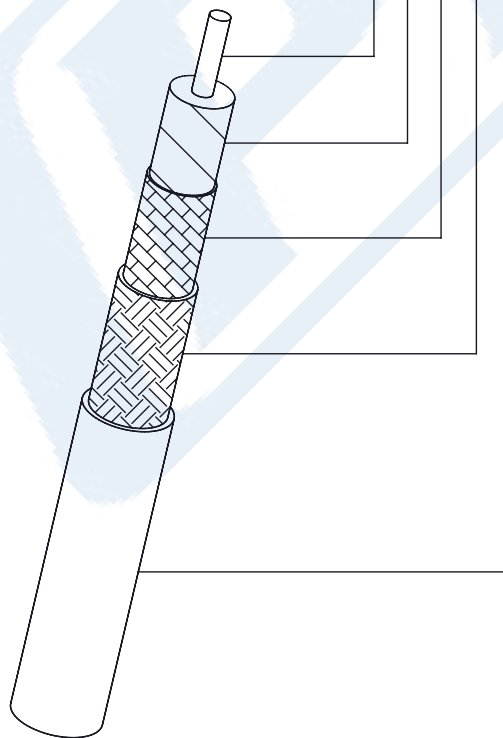
URL: <https://www.pasternack.com/low-pim-flexible-tft-5g-402-fep-jacket-tin-outer-conductor-double-shielded-tft-5g-402-p.aspx>

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TFT-5G-402 CAD Drawing

Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket

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



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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TOLERANCES:

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CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	± .1 [25]	/ -0
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300 [7620] < L	± .5% L	/ -0

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Pasternack Enterprises, Inc.
P.O. Box 16759, Irvine, CA 92623.
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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K.DANG	TFT-5G-402

REV A

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