

4.1/9.5 Mini DIN Female Low PIM Connector Solder Attachment for TFT-5G-402



TC-402-4195F-LP



Times Microwave Systems Connector Specification

Configuration

- 4.1/9.5 Mini DIN Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TFT-5G-402
- Low PIM Design

Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.35:1
- PIM levels lower than -160 dBc
- Silver Plated Phosphor Bronze Contact
- 200 µin contact plating

Applications

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

Description

Pasternack's TC-402-4195F-LP, 4.1/9.5 Mini DIN, Low PIM, Connector is part of our full line of RF components available for same-day shipping. Our 4.1/9.5 Mini DIN female connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.35:1. The 4.1/9.5 Mini DIN female connector also has low passive intermodulation of -160 dBc.

Our 4.1/9.5 Mini DIN female connector TC-402-4195F-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			1.35:1	
Insertion Loss			0.24	dB
Passive Intermodulation			-160	dBc
Operating Voltage (DC)			2,500	Vdc
Insulation Resistance	10,000			MOhms
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
VSWR, Max	1.1:1	1.35:1				

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

4.1/9.5 Mini DIN Female Low PIM Connector Solder Attachment for TFT-5G-402



TC-402-4195F-LP

Mechanical Specifications

Size	
Length	1.04 in [26.42 mm]
Width	0.374 in [9.50 mm]
Height	0.374 in [9.5 mm]
Weight	0.03 lbs [13.61 g]
Mating Cycles	500 Cycles
Cable Retention Force	112 lbs [50.8 kg]

Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Silver 200 μ in
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal 80 μ in
Body	Brass	Tri-Metal 80 μ in

Environmental Specifications

Temperature

Operating Range	-55 to +85 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:

4.1/9.5 Mini DIN Female Low PIM Connector Solder Attachment for TFT-5G-402



TC-402-4195F-LP

4.1/9.5 Mini DIN Female Low PIM Connector Solder Attachment for TFT-5G-402 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

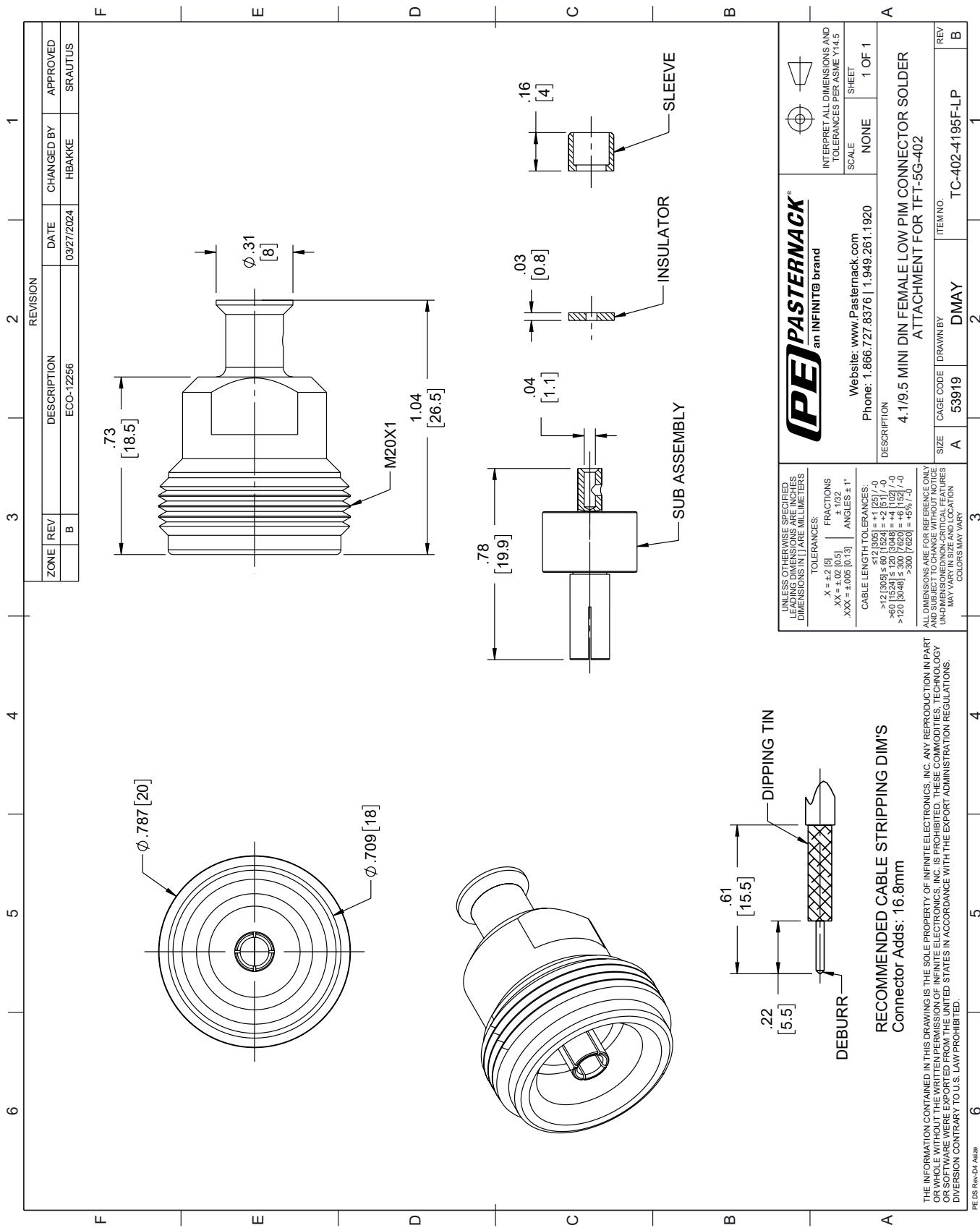
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.1/9.5 Mini DIN Female Low PIM Connector Solder Attachment for TFT-5G-402 TC-402-4195F-LP](https://www.pasternack.com/4.1-9.5-mini-din-female-tft-402-connector-tc-402-4195f-lp-p.aspx)

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TC-402-4195F-LP CAD Drawing

4.1/9.5 Mini DIN Female Low PIM Connector Solder Attachment for TFT-5G-402



4.3-10 Female Bulkhead Mount Low PIM Connector Solder Attachment for TFT-5G-402



TC-402-4310F-BH-LP



Times Microwave Systems Connector Specification

Configuration

- 4.3-10 Female Connector
- 50 Ohms
- Straight Body Geometry

- Connector Interface Types: TFT-5G-402
- Bulkhead
- Low PIM Design

Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.25:1
- PIM levels lower than -160 dBc

- Silver Plated Phosphor Bronze Contact
- 200 µin contact plating

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Wireless Communications

- Custom Cable Assemblies
- Low PIM Applications
- Distributed Antenna Systems (DAS)

Description

Pasternack's TC-402-4310F-BH-LP, 4.3-10, Low PIM, Connector is part of our full line of RF components available for same-day shipping. Our 4.3-10 female connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.25:1. The 4.3-10 female connector also has low passive intermodulation of -160 dBc. This 4.3-10 bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our 4.3-10 female bulkhead connector TC-402-4310F-BH-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			1.25:1	
Insertion Loss			0.24	dB
Passive Intermodulation			-160	dBc
Operating Voltage (DC)			2,500	Vdc
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
VSWR, Max	1.1:1	1.25:1				

4.3-10 Female Bulkhead Mount Low PIM Connector Solder Attachment for TFT-5G-402

TC-402-4310F-BH-LP



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

Mechanical Specifications

Size	
Length	1.449 in [36.8 mm]
Width	0.867 in [22.02 mm]
Height	0.867 in [22.02 mm]
Weight	0.03 lbs [13.61 g]
Mating Cycles	500 Cycles
Cable Retention Force	22 lbs [9.98 kg]

Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Silver 200 μ in
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal 80 μ in
Body	Brass	Tri-Metal 80 μ in

Environmental Specifications

Temperature

Operating Range

-55 to +85 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:

4.3-10 Female Bulkhead Mount Low PIM Connector Solder Attachment for TFT-5G-402

TC-402-4310F-BH-LP



4.3-10 Female Bulkhead Mount Low PIM Connector Solder Attachment for TFT-5G-402 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

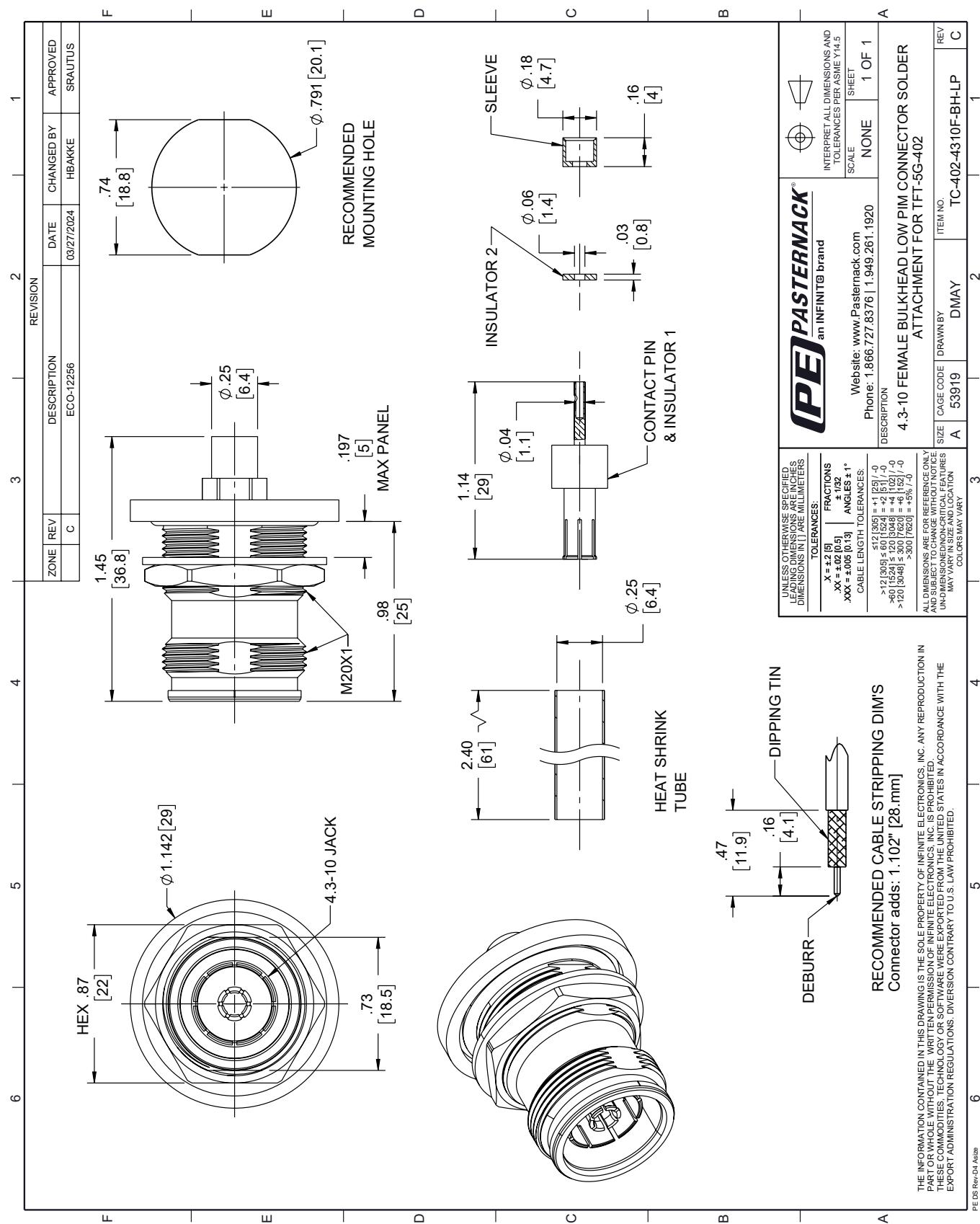
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TC-402-4310F-BH-LP CAD Drawing

4.3-10 Female Bulkhead Mount Low PIM Connector Solder Attachment for 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

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 Pigtailed
- 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 pigtailed 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:

Low PIM Flexible TFT-5G-402 Coax Cable Double Shielded with Blue FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

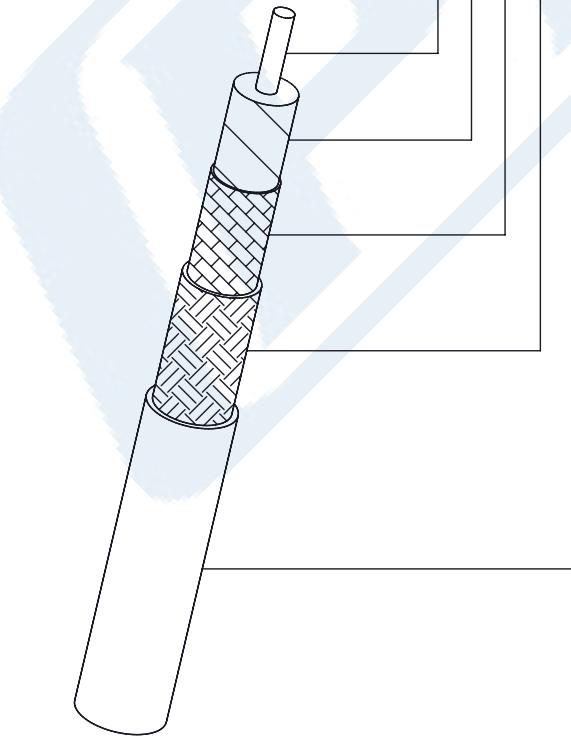
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URL: <https://www.pasternack.com/low-pim-flexible-tft-5g-402-fep-jacket-tin-outer-conductor-double-shielded-tft-5g-402-p.aspx>

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TFT-5G-402 CAD Drawing

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

REV. A					DESCRIPTION INITIAL RELEASE		DATE 09/13/2022	APPROVED A. GANWANI															
REVISIONS																							
																							
<table border="1"> <tr> <td>Center Conductor</td> <td>.037 [0.94]</td> <td>Bare Copper</td> </tr> <tr> <td>Dielectric</td> <td>.113 [2.87]</td> <td>Taped PTFE</td> </tr> <tr> <td>Shield</td> <td>.121 [3.07]</td> <td>Tin Plated Flat Braid</td> </tr> <tr> <td>Outer Braid</td> <td>.138 [3.51]</td> <td>Tin Plated Copper Braid</td> </tr> <tr> <td>Jacket</td> <td>.160 [4.06]</td> <td>Blue FEP</td> </tr> </table>									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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<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES: $X = \pm .2$ [5.08] FRACTIONS $.XX = \pm .02$ [.51] $\pm 1/32$ $XXX = \pm .005$ [.13] ANGLES $\pm 1^\circ$ CABLE LENGTH (L) TOLERANCES: $L \leq 12$ [305] $= +1[28] / -0$ $12 [305] < L \leq 60$ [1524] $= +2[51] / -0$ $60 [1524] < L \leq 120$ [3048] $= +4[102] / -0$ $120 [3048] < L \leq 300$ [7620] $= +6[152] / -0$ $300 [7620] < L \leq +586L / -0$ - ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. </p>																							
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