



SMA Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF

RF Connectors Technical Data Sheet

Times Microwave Systems Connector Specification

Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TFT-402, TFT-402-LF
- Low PIM Design

Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.25:1
- Silver Plated Brass Contact
- 5 μm contact plating
- IP 67 Rated

Applications

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

Description

Pasternack's TC-402-SM-LP SMA male 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 SMA male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.25:1. The connector has an IP67 rating to protect against dust and temporary moisture protection under immersion conditions.

Our SMA male connector TC-402-SM-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		0.15		dB
Operating Voltage (DC)			1,000	Vdc
Inner Conductor DC Resistance		3		mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms

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

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

SMA Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF



RF Connectors Technical Data Sheet

Mechanical Specifications

Size

 Length
 Width/Dia.

 1.161 in [29.49 mm]
 0.374 in [9.50 mm]

Mating Torque

9 in-lbs [1.02 Nm]

Material Specifications

Description	Material	Plating
Contact	Brass	Silver 5 μ m
Insulation	PTFE	
Body	Brass	Silver 5 μ m
Coupling Nut	Brass	Tri-Metal 3 μ m
Gasket	Silicone Rubber	

Environmental Specifications

Temperature

Operating Range

-55 to +155 deg C

Ingress Protection (IP) Rating

IP 67 Rated

Shock

US MIL-STD 202, Meth. 213, Cond. I

Vibration

US MIL-STD 202, Meth. 204, Cond. B

Thermal Shock

US MIL-STD 202, Meth. 107, Cond. B

Environmental Specification Notes:

Weather Standard: TEC 60068 55/155/21

Compliance Certifications

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

Plotted and Other Data

Notes:

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



SMA Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF

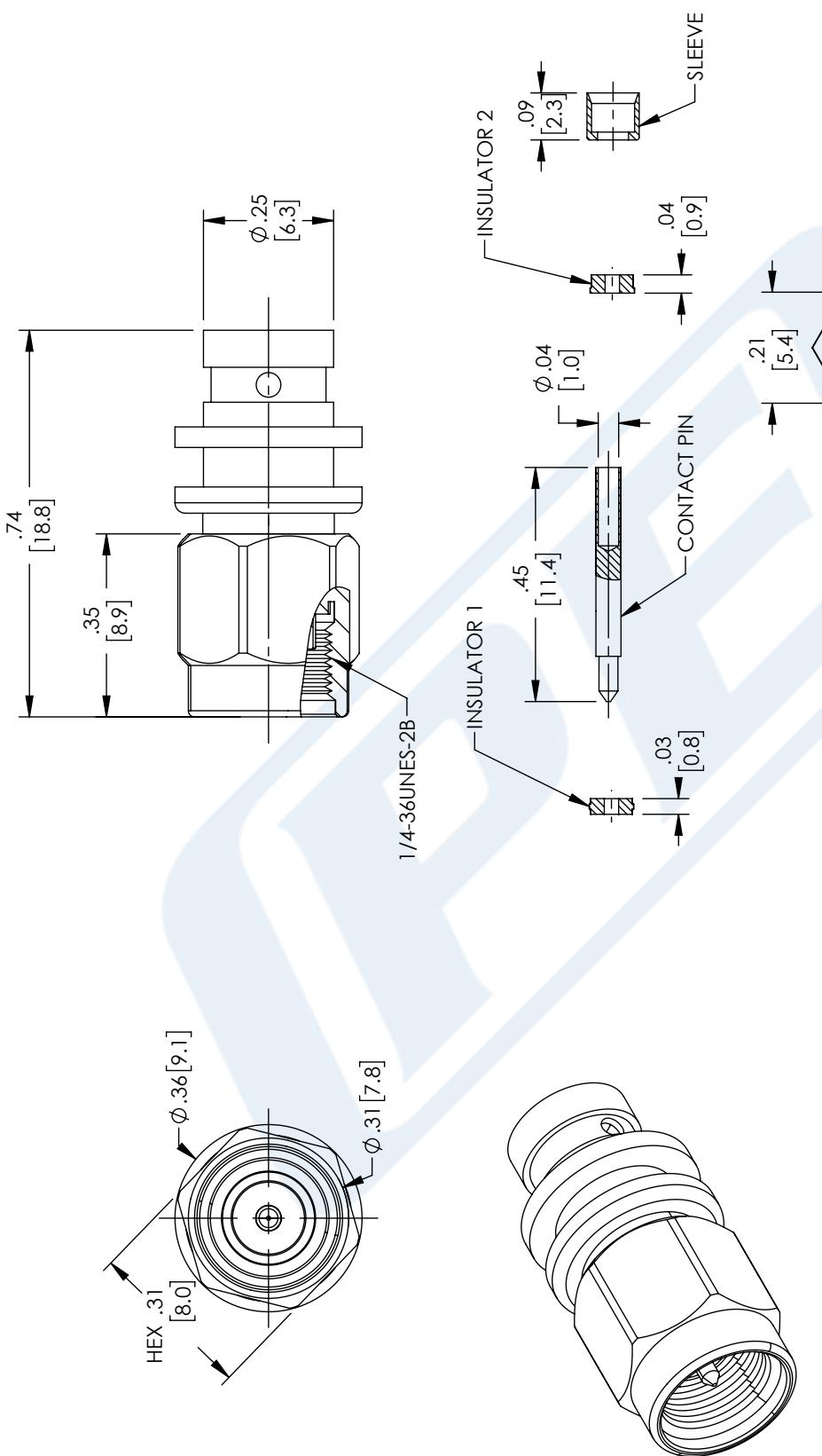
RF Connectors Technical Data Sheet

SMA Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF 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: [SMA Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF TC-402-SM-LP](https://www.pasternack.com/sma-male-tft-402-connector-tc-402-sm-lp-p.aspx)

URL: <https://www.pasternack.com/sma-male-tft-402-connector-tc-402-sm-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		THIRD-ANGLE PROJECTION
TOLERANCES:		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERACK CORPORATION ALL RIGHTS RESERVED
$X = \pm 2$ $XX = \pm .02$ $XXX = \pm .005$		FRACTIONS: $[5/08]$ $[5/1]$ $[13]$ $\pm 1/32$ $\pm .005$ $\pm .001$ $\pm .0005$ $\pm .0001$
CABLE LENGTH (L) TOLERANCES:		ANGLES $\pm 1^\circ$
$L \leq 12$ $12 [305] < L \leq 60 [1524]$ $60 [1524] < L \leq 120 [3048]$ $120 [3048] < L \leq 300 [7620]$ $300 [7620] < L \leq 750 [1905]$		$L \leq 12$ $L \leq 60$ $L \leq 120$ $L \leq 300$ $L \leq 750$
$L \leq 12$ $L \leq 60$ $L \leq 120$ $L \leq 300$ $L \leq 750$		$= +1[28]/-0$ $= +2[51]/-0$ $= +4[102]/-0$ $= +6[152]/-0$ $= +8[188]/-0$
$12 [305] < L \leq 60 [1524]$ $60 [1524] < L \leq 120 [3048]$ $120 [3048] < L \leq 300 [7620]$ $300 [7620] < L \leq 750 [1905]$		$= +1[28]/-0$ $= +2[51]/-0$ $= +4[102]/-0$ $= +6[152]/-0$ $= +8[188]/-0$
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE
WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION, CONTRARY TO U.S. LAW PROHIBITED.



SMA Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF

RF Connectors Technical Data Sheet

Times Microwave Systems Connector Specification

Configuration

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: TFT-402, TFT-402-LF
- Low PIM Design

Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.25:1
- Silver Plated Brass Contact
- 5 μm contact plating
- IP 67 Rated

Applications

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

Description

Pasternack's TC-402-SM-LP SMA male 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 SMA male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.25:1. The connector has an IP67 rating to protect against dust and temporary moisture protection under immersion conditions.

Our SMA male connector TC-402-SM-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		0.15		dB
Operating Voltage (DC)			1,000	Vdc
Inner Conductor DC Resistance		3		mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms

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

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

SMA Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF



RF Connectors Technical Data Sheet

Mechanical Specifications

Size

 Length
 Width/Dia.

 1.161 in [29.49 mm]
 0.374 in [9.50 mm]

Mating Torque

9 in-lbs [1.02 Nm]

Material Specifications

Description	Material	Plating
Contact	Brass	Silver 5 μ m
Insulation	PTFE	
Body	Brass	Silver 5 μ m
Coupling Nut	Brass	Tri-Metal 3 μ m
Gasket	Silicone Rubber	

Environmental Specifications

Temperature

 Operating Range
 Ingress Protection (IP) Rating
 Shock
 Vibration
 Thermal Shock

 -55 to +155 deg C
 IP 67 Rated
 US MIL-STD 202, Meth. 213, Cond. I
 US MIL-STD 202, Meth. 204, Cond. B
 US MIL-STD 202, Meth. 107, Cond. B

 Environmental Specification Notes:
 Weather Standard: TEC 60068 55/155/21

Compliance Certifications

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

Plotted and Other Data

Notes:

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

SMA Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF



RF Connectors Technical Data Sheet

T **TIMES**
An Amphenol Company

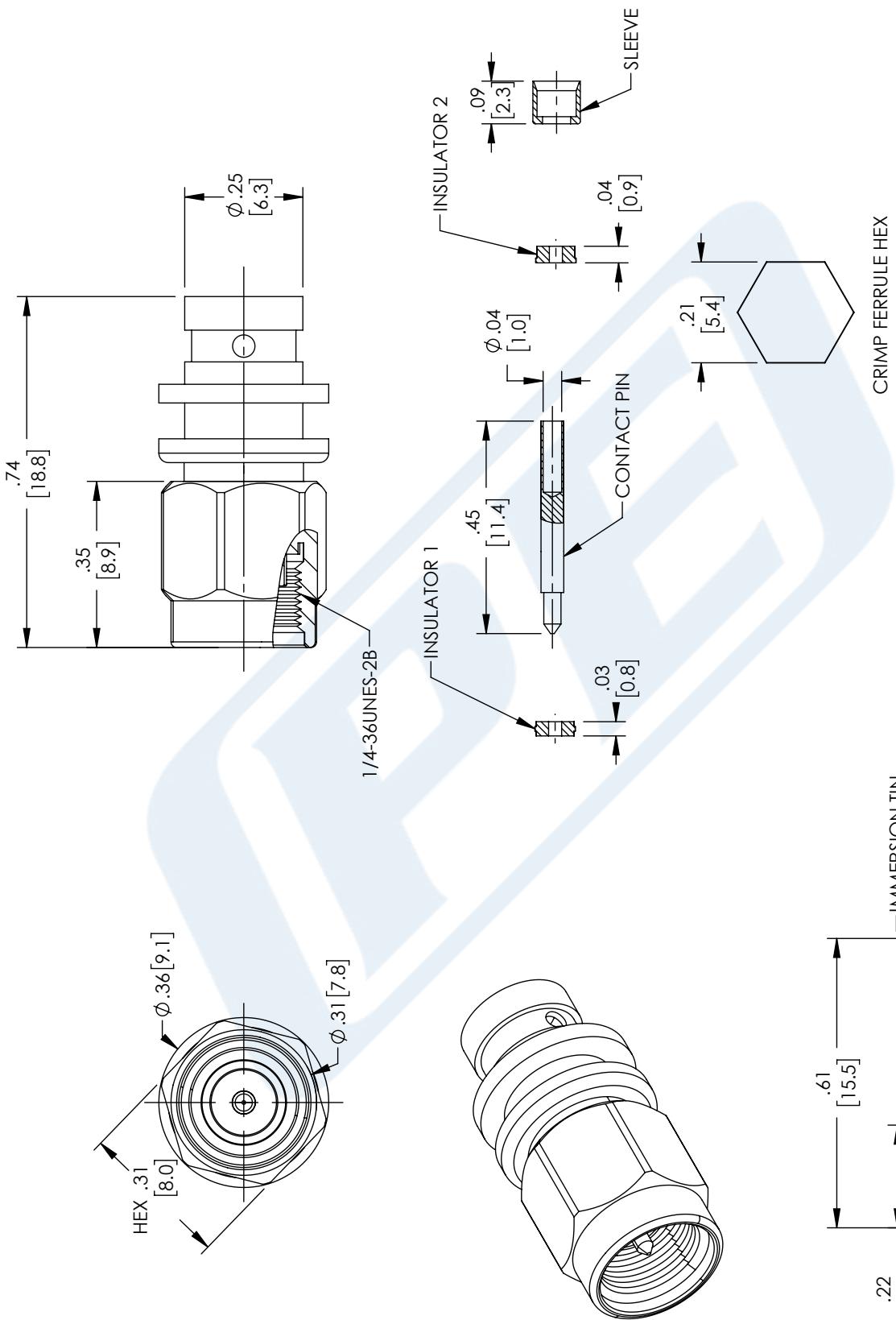
TC-402-SM-LP

SMA Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF 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: [SMA Male Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF TC-402-SM-LP](https://www.pasternack.com/sma-male-tft-402-connector-tc-402-sm-lp-p.aspx)

URL: <https://www.pasternack.com/sma-male-tft-402-connector-tc-402-sm-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



THIRD-ANGLE PROJECTION	
THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERACK CORPORATION ALL RIGHTS RESERVED	
1	OF
PASTERACK an INFINITE brand	
Pasterack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Website: www.pasterack.com E-mail: sales@pasterack.com	
SCALE	3:1
SIZE	ITEM NO.
A	TC-402-SM-LP
REV	A

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE
WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION, CONTRARY TO U.S. LAW PROHIBITED.



Low PIM Flexible TFT-402 Outdoor Rated Coax Cable Double Shielded with Blue FEP Jacket

RF Cables Technical Data Sheet

Times Microwave Systems Coax Cable Specification

Configuration

- Low Loss, Outdoor Flexible Cable
- 2 Shield(s)

Features

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

Applications

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

Description

TFT-402 low PIM flexible coax by Time Microwave is part of our full line of RF components available for same-day shipping. The TFT-402 plenum rated coaxial cable features a taped PTFE dielectric, a silver-plated copper center conductor, and a Flat Braid outer conductor. These features combine to make the Times Microwave TFT-402 an extremely flexible, low loss, low PIM coax cable that is well suited for Distributed Antenna Systems (DAS), plenum installations, or small cells. The durable FEP jacket makes this cable suitable for both indoor and outdoor use.

Our datasheet specifications and drawing with dimensions for Times Microwave TFT-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 assembly configuration, Pasternack has the right TFT-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
Inner Conductor DC Resistance			8.5	Ohms/1000ft
Outer Conductor DC Resistance			5.6	Ohms/1000ft
Nominal Capacitance		26.7 [87.6]		pF/ft [pF/m]
Input Power (Peak)			3	kWatts

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-402 Outdoor Rated Coax Cable Double Shielded with Blue FEP Jacket TFT-402](#)



Low PIM Flexible TFT-402 Outdoor Rated Coax Cable Double Shielded with Blue FEP Jacket

RF Cables Technical Data Sheet


TFT-402

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.03	0.15	0.45	0.9	2	GHz
Attenuation, Typ	1.9	4.1	7.2	10.3	15.4	dB/100ft
	6.23	13.45	23.62	33.79	50.52	dB/100m
Input Power (CW), Max	3,000	1,340	770	550	370	Watts

Description	F6	F7	F8	F9	F10	Units
Frequency	2.5	5.8				GHz
Attenuation, Typ	17.3	26.7				dB/100ft
	56.76	87.6				dB/100m
Input Power (CW), Max	330	210				Watts

Mechanical Specifications

Diameter	0.16 in [4.06 mm]
Weight	0.03 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, Silver, 1 Strand	0.037 in [0.94 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.113 in [2.87 mm]
First Shield	Silver Plated Copper Braid	0.121 in [3.07 mm]
Second Shield	Tinned Copper Braid	0.138 in [3.51 mm]
Jacket	FEP, Blue	0.16 in [4.06 mm]

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-402 Outdoor Rated Coax Cable Double Shielded with Blue FEP Jacket TFT-402](#)



Low PIM Flexible TFT-402 Outdoor Rated Coax Cable Double Shielded with Blue FEP Jacket

RF Cables Technical Data Sheet



TFT-402

Environmental Specifications

Temperature

Operating Range

-55 to +150 deg C

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

Plotted and Other Data

Notes:

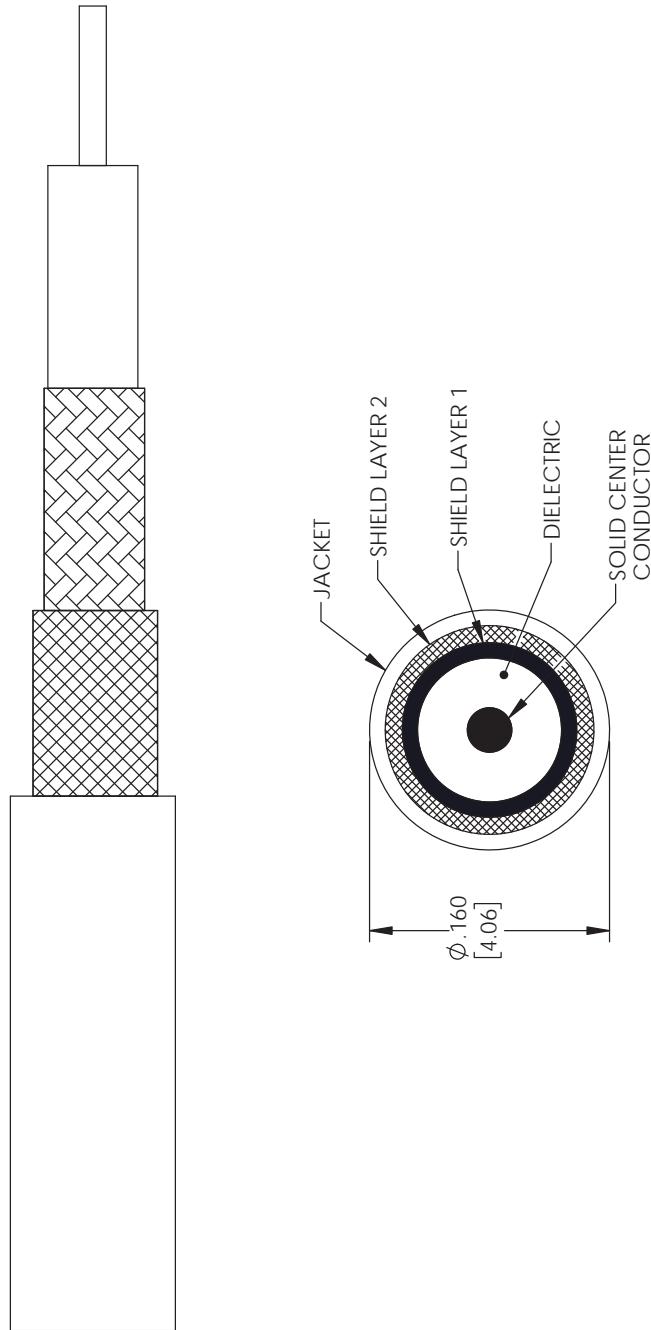
Low PIM Flexible TFT-402 Outdoor Rated Coax Cable Double Shielded with Blue FEP Jacket from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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-402 Outdoor Rated Coax Cable Double Shielded with Blue FEP Jacket TFT-402](#)

URL: <https://www.pasternack.com/low-loss-flexible-tft-402-fep-jacket-silver-plated-copper-braid-over-tinned-copper-braid-outer-conductor-double-shielded-tft-402-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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

REV.		DESCRIPTION		DATE	APPROVED
A		INITIAL RELEASE		2/15/21	S.ELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		THIRD-ANGLE PROJECTION
TOLERANCES:		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNACK CORPORATION. ALL RIGHTS RESERVED.
X = $\pm .2$ [5.08]		PE PASTERNACK
XX = $\pm .02$ [.51]		an INFINIT [®] brand
XXX = $\pm .005$ [.13]		Pasternack Enterprises, Inc. P.O.Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com
CABLE LENGTH (L) TOLERANCES:		SCALE N/A
L \leq 12 [305] = ± 1 [25] / -0		SHEET 1 OF 1
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] $< L$ = $\pm 5\%$ / -0		
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE
 WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.