

2.2-5 Male to QMA Male Low PIM Cable Using TFT-5G-402 Coax with Times Microwave Components, LF Solder



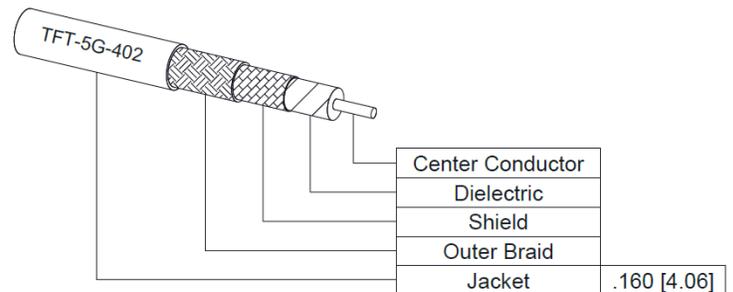
PE3W13490LF

Configuration

- Connector 1: 2.2-5 Male
- Connector 2: QMA Male
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket
- 100 Mating Cycles



Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

Description

Pasternack's PE3W13490LF 2.2-5 male to QMA male cable using TFT-5G-402 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack 2.2-5 to QMA cable assembly has a male to male gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3W13490LF 2.2-5 male to QMA male cable assembly operates to 3 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 80 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	80			dB
Passive Intermodulation			-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
Capacitance		26.7 [87.6]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	Units	Weight (lbs)
			Frequency	500	1000	3000	
PE3W13490LF	Custom Lengths Available	Insertion Loss (Typ.)	0.081	0.111	0.205	dB/ft	
			0.27	0.37	0.68	dB/m	
PE3W13490LF-12	12 In	Insertion Loss (Typ.)	0.43	0.46	0.55	dB	0.088
PE3W13490LF-24	24 In	Insertion Loss (Typ.)	0.51	0.57	0.75	dB	0.117
PE3W13490LF-36	36 In	Insertion Loss (Typ.)	0.59	0.68	0.96	dB	0.145
PE3W13490LF-60	60 In	Insertion Loss (Typ.)	0.75	0.9	1.37	dB	0.201
PE3W13490LF-200CM	200 CM	Insertion Loss (Typ.)	0.88	1.07	1.69	dB	0.245

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.24 dB
 Loss due to Connector 2: 0.1 dB
 Base Weight: 0.088 pounds
 Additional Weight per Inch: 0.00234 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter .5 in [12.7 mm]
 Weight 0.088 lbs [39.92 g]

Cable

Cable Type TFT-5G-402
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper
 Dielectric Type PTFE
 Number of Shields 2
 Shield Layer 1 Tin
 Outer Conductor 1 Material and Plating Copper, Tin
 Jacket Material FEP, Blue
 Jacket Diameter 0.16 in [4.06 mm]
 One Time Minimum Bend Radius 0.75 in [19.05 mm]

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Connectors

Description	Connector 1	Connector 2
Type	2.2-5 Male	QMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	100	100
Contact Material and Plating	Beryllium Copper, Silver	Brass, Silver
Contact Plating Specification	200 µin	5 µm
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Silver	Brass, Silver
Body Plating Specification	100 µin	5 µm
Coupling Nut Material and Plating	Brass, Tri-Metal	
Coupling Nut Plating Specification	100 µin	
Torque	26 in-lbs 2.94 Nm	

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

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PE3W13490LF

Typical Performance Data

How to Order

Part Number Configuration:

PE3W13490LF - xx uu

_____ Unit of Measure:
 cm = Centimeters
 <blank> = Inches
 _____ Length
 _____ Base Number

Example: PE3W13490LF-12 = 12 inches long cable
 PE3W13490LF-100cm = 100 cm long cable

2.2-5 Male to QMA Male Low PIM Cable Using TFT-5G-402 Coax with Times Microwave Components, LF Solder 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.

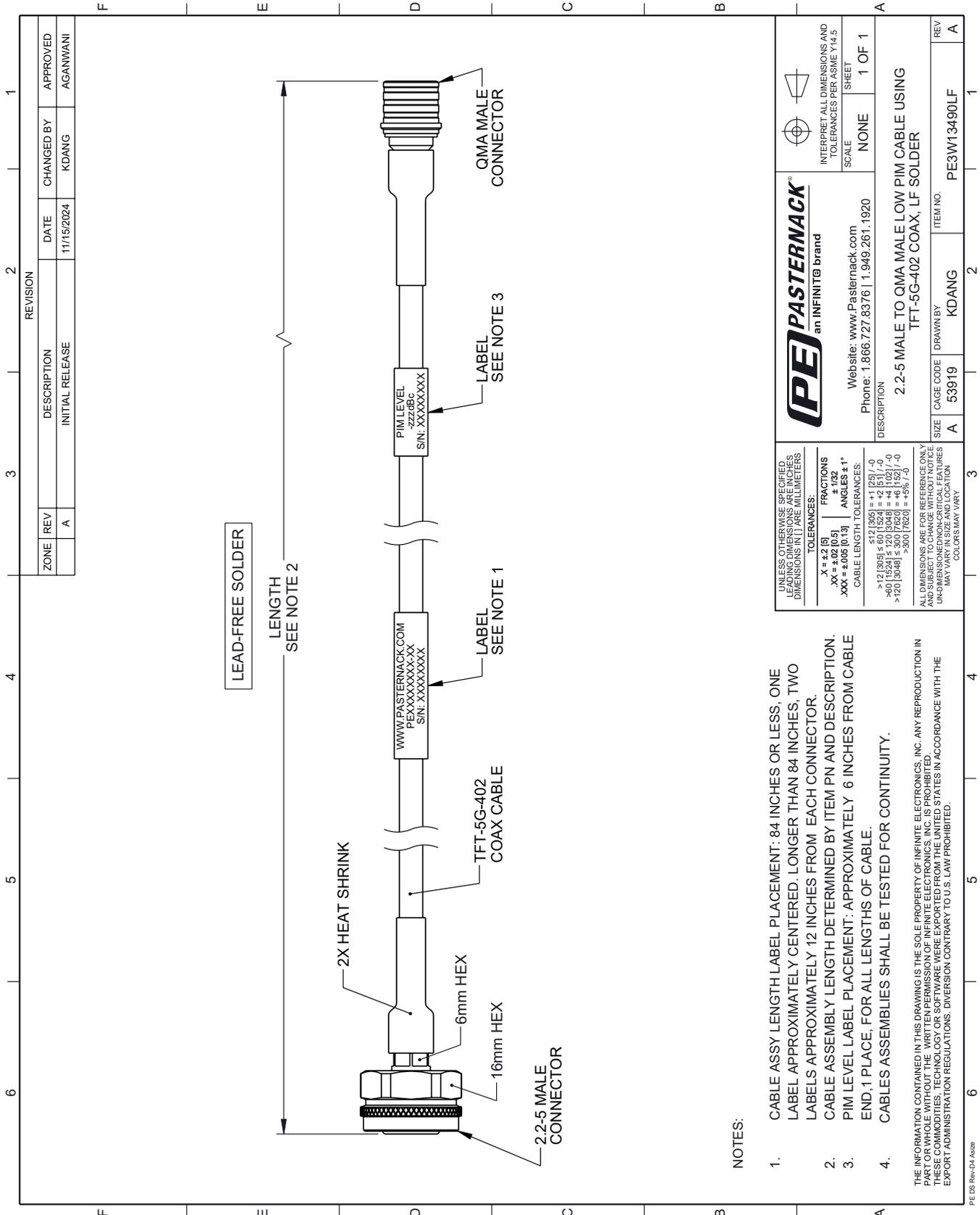
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.2-5 Male to QMA Male Low PIM Cable Using TFT-5G-402 Coax with Times Microwave Components, LF Solder PE3W13490LF](#)

URL: <https://www.pasternack.com/2.2-5-male-to-qma-male-low-pim-cable-using-tft-5g-402-lf-solder-pe3w13490lf-p.aspx>

The information contained within 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 impliment improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W13490LF CAD Drawing

2.2-5 Male to QMA Male Low PIM Cable Using TFT-5G-402 Coax with Times Microwave Components, LF Solder



 an INFINITB brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: 2.2-5 MALE TO QMA MALE LOW PIM CABLE USING TFT-5G-402 COAX, LF SOLDER		
SIZE: A	CAGE CODE: 53919	DRAWN BY: KDANG
ITEM NO.: PE3W13490LF		REV: A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	TOLERANCES: .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13]	FRACTIONS ± 1/32 ANGLES ± 1°
ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN PARENTHESES ARE NON-CRITICAL FEATURES AND MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	CABLE LENGTH TOLERANCES: ≤ 12 [305] ± .60 [1524] = ±.1 [254] / -0 > 12 [305] ≤ 60 [1524] = ±.4 [1027] / -0 > 60 [1524] ≤ 120 [3048] = ±.4 [1027] / -0 > 120 [3048] ≤ 300 [7620] = ±.6 [152] / -0	