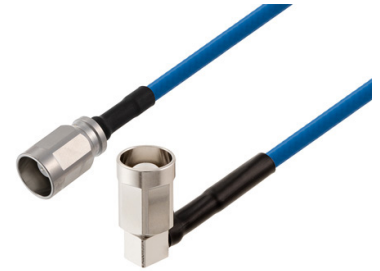


NEX10 Male to NEX10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components

PE3C8004

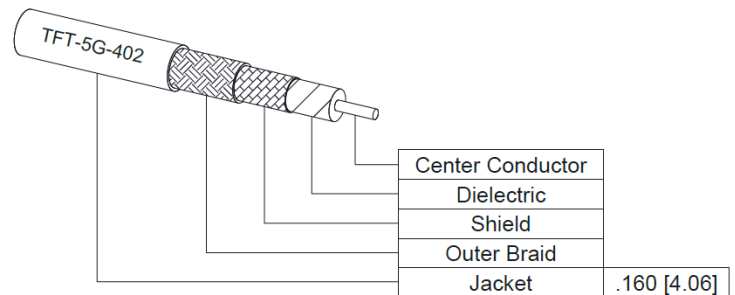


Configuration

- Connector 1: NEX10 Male
- Connector 2: NEX10 Male Right Angle
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 80 dB
- 76% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use
- Low PIM Applications
- Indoor and Outdoor Use
- Plenum Rated Applications

Description

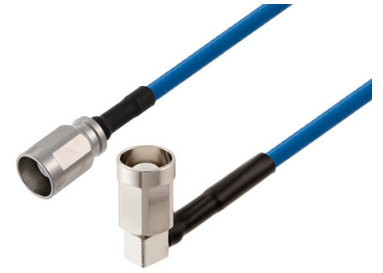
Pasternack's PE3C8004 NEX10 male to NEX10 male right angle cable using TFT-5G-402 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack NEX10 to NEX10 cable assembly has a male to male gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C8004 NEX10 male to NEX10 male cable assembly operates to 4 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The right angle NEX10 interface on the TFT-5G-402 cable allows for easier connections in tight spaces. 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		4	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				

NEX10 Male to NEX10 Male Right Angle
Low PIM Cable Using TFT-5G-402 Coax Using Times
Microwave Components



PE3C8004

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Capacitance		26.7 [87.6]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.02	0.04	0.08	0.11	0.23	dB/ft
	0.07	0.13	0.26	0.36	0.75	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as $0.1 \cdot \sqrt{F(\text{GHz})}$ dB per connector.

Mechanical Specifications

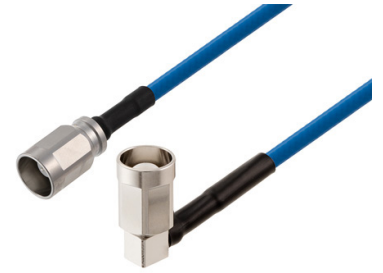
Cable Assembly

Width/Diameter 0.472 in [11.99 mm]

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
Jacket Material	FEP, Blue
Jacket Diameter	0.16 in [4.06 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]

NEX10 Male to NEX10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components



PE3C8004

Connectors

Description	Connector 1	Connector 2
Type	NEX10 Male	NEX10 Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles	100	500
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	100 µin	200 µin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Silver	Brass, Tri-Metal
Body Plating Specification	100 µin	100 µin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100 µin	100 µin
Torque	9 in-lbs 1.02 Nm	13 in-lbs 1.47 Nm

Environmental Specifications

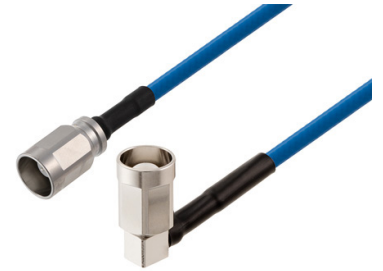
Operating Range Temperature -40 to +125 deg C

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

Plotted and Other Data

Notes:

NEX10 Male to NEX10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components



PE3C8004

Typical Performance Data

How to Order

Part Number Configuration:

PE3C8004

- xx

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3C8004-12 = 12 inches long cable
PE3C8004-100cm = 100 cm long cable

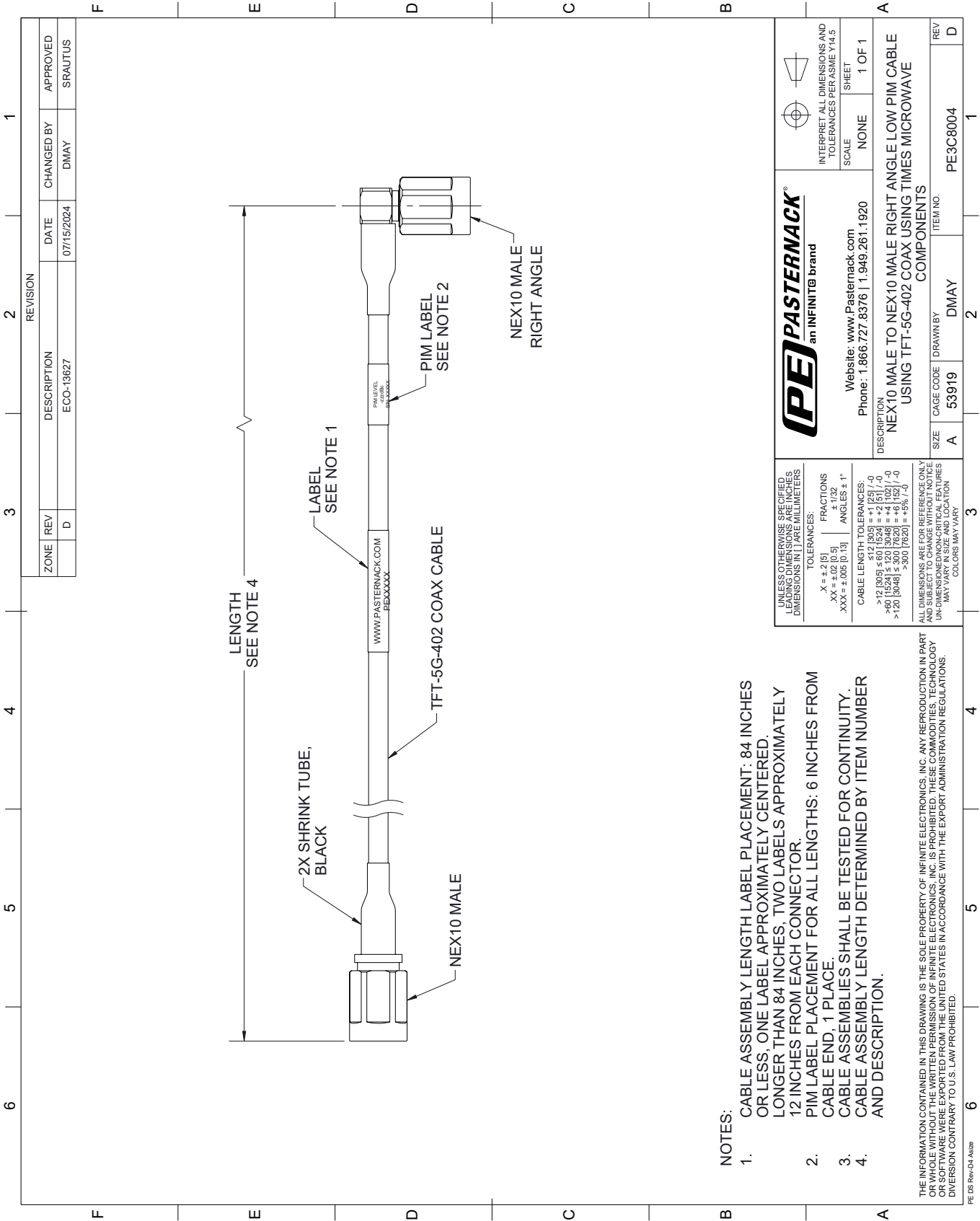
NEX10 Male to NEX10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest 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: [NEX10 Male to NEX10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components PE3C8004](#)

URL: <https://www.pasternack.com/nex10-male-to-nex10-male-low-pim-cable-using-tft-5g-402-pe3c8004-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 implement 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.

PE3C8004 CAD Drawing
NEX10 Male to NEX10 Male Right Angle Low PIM Cable Using TFT-5G-402 Coax Using Times Microwave Components



- NOTES:
- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 84 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROXIMATELY 12 INCHES FROM EACH CONNECTOR.
 - 2. PIM LABEL PLACEMENT FOR ALL LENGTHS: 6 INCHES FROM CABLE END, 1 PLACE.
 - 3. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - 4. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AND DESCRIPTION.

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UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.		PE PASTERNAK an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.Pasternack.com		SCALE	
X = ±.2 (5)		Phone: 1.866.727.8376 1.949.261.1920		NONE	
XX = ±.02 (0.5)				SHEET	
XXX = ±.005 (0.13)				1 OF 1	
FRACTIONS					
± 1/32					
ANGLES ± 1°					
CABLE LENGTH TOLERANCES:					
>12 (305) ≤ 60 (1524) = ±.1 (2.5) / -0					
>60 (1524) ≤ 120 (3048) = ±.1 (2.5) / -0					
>120 (3048) ≤ 300 (7620) = ±.1 (2.5) / -0					
>300 (7620) = +.5% / -0					
ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS SHALL BE TO UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.					
		DESCRIPTION		COMPONENTS	
		NEX10 MALE TO NEX10 MALE RIGHT ANGLE LOW PIM CABLE USING TFT-5G-402 COAX USING TIMES MICROWAVE			
		SIZE		ITEM NO.	
		A		53919	
		DRAWN BY		DMAY	
		CAGE CODE		PE3C8004	
		REV		D	