

NEX10 Male to 4.3-10 Male Low PIM Cable 12 Inch Length Using TFT-5G-402 Coax with Times Microwave Components



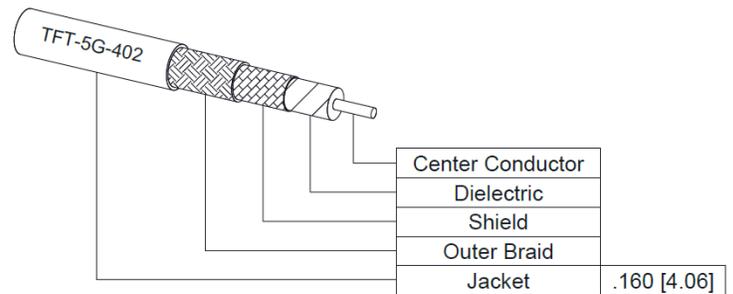
PE3W15672-12

Configuration

- Connector 1: NEX10 Male
- Connector 2: 4.3-10 Male
- Cable Type: TFT-5G-402
- Coax Flex Type: Flexible

Features

- Max Frequency 6 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

Description

Pasternack's PE3W15672-12 NEX10 male to 4.3-10 male 12 inch 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 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3W15672-12 NEX10 male to 4.3-10 male cable assembly operates to 6 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	80			dB
Passive Intermodulation IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz			-160	dBc
Capacitance		26.7 [87.6]		pF/ft [pF/m]

Specifications by Frequency

NEX10 Male to 4.3-10 Male Low PIM Cable 12 Inch Length
Using TFT-5G-402 Coax with Times Microwave Components



PE3W15672-12

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency	500	1000	2500		
PE3W15672	Custom Lengths Available	Insertion Loss (Typ.)	0.081	0.111	0.188	0.295	dB/ft	
			0.27	0.37	0.62	0.97	dB/m	
PE3W15672-12	12 In	Insertion Loss (Typ.)	0.57	0.6	0.67	0.78	dB	0.088
PE3W15672-24	24 In	Insertion Loss (Typ.)	0.65	0.71	0.86	1.07	dB	0.117
PE3W15672-36	36 In	Insertion Loss (Typ.)	0.73	0.82	1.05	1.37	dB	0.145
PE3W15672-60	60 In	Insertion Loss (Typ.)	0.89	1.04	1.42	1.96	dB	0.201
PE3W15672-200CM	200 CM	Insertion Loss (Typ.)	1.02	1.21	1.72	2.42	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: 0.24 dB
 Base Weight: 0.088 pounds
 Additional Weight per Inch: 0.00234 pounds

Mechanical Specifications

Cable Assembly

Length 12 in [304.8 mm]
 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]

NEX10 Male to 4.3-10 Male Low PIM Cable 12 Inch Length
Using TFT-5G-402 Coax with Times Microwave Components



PE3W15672-12

Connectors

Description	Connector 1	Connector 2
Type	NEX10 Male	4.3-10 Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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	80 μin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	100 μin	80 μin
Torque	9 in-lbs 1.02 Nm	44 in-lbs 4.97 Nm

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

NEX10 Male to 4.3-10 Male Low PIM Cable 12 Inch Length
Using TFT-5G-402 Coax with Times Microwave Components



PE3W15672-12

Typical Performance Data

How to Order

Part Number Configuration:

PE3W15672

- xx

uu

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

Example: PE3W15672-12 = 12 inches long cable
PE3W15672-100cm = 100 cm long cable

NEX10 Male to 4.3-10 Male Low PIM Cable 12 Inch Length Using TFT-5G-402 Coax with 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.

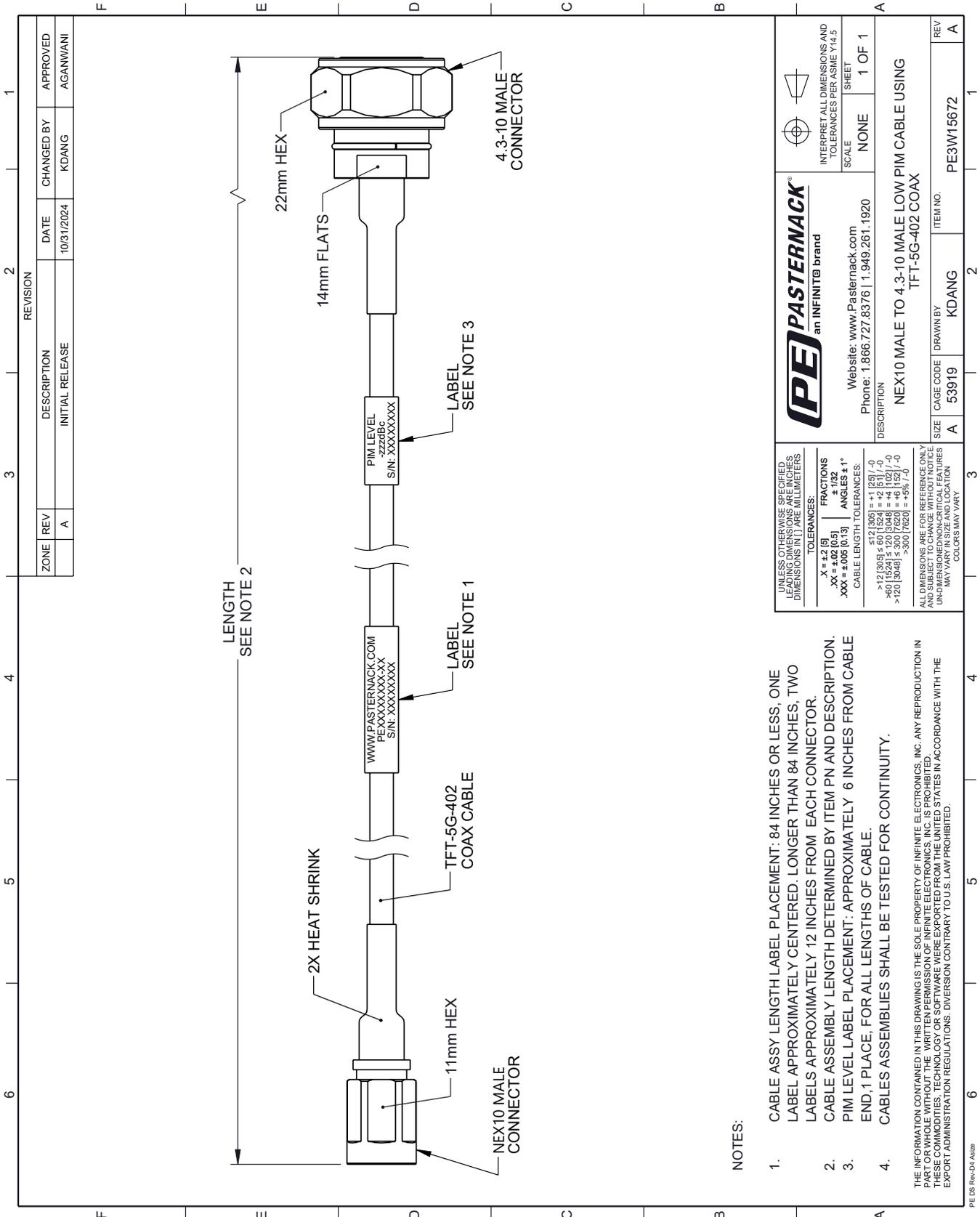
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [NEX10 Male to 4.3-10 Male Low PIM Cable 12 Inch Length Using TFT-5G-402 Coax with Times Microwave Components PE3W15672-12](#)

URL: <https://www.pasternack.com/nex10-male-to-4.3-10-male-low-pim-cable-12-inch-length-using-tft-5g-402-pe3w15672-12-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.

PE3W15672-12 CAD Drawing

NEX10 Male to 4.3-10 Male Low PIM Cable 12 Inch Length Using TFT-5G-402 Coax with Times Microwave Components



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
	A			AGANWANI

 an INFINITB brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		
DESCRIPTION NEX10 MALE TO 4.3-10 MALE LOW PIM CABLE USING TFT-5G-402 COAX		
SIZE	CAGE CODE	ITEM NO.
A	53919	PE3W15672
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]

ANGLES ± 1°
 ± 1/32

CABLE LENGTH TOLERANCES:
 ≤ 12 [305] ± .60 [1524] = ±.2 [5] / -0
 > 12 [305] ≤ 60 [1524] = ±.4 [1027] / -0
 > 60 [1524] ≤ 120 [3048] = ±.4 [1027] / -0
 > 120 [3048] ≤ 300 [7620] = ±.5% [12.5]

ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED. DIMENSIONS ON UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. 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.