



RF Cable Assemblies Technical Data Sheet

PE3C7969

Configuration

Connector 1: N MaleConnector 2: N FemaleCable Type: TFT-402

Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > -80 dB
- 76% Phase Velocity
- · Double Shielded
- · FEP Jacket
- 500 Mating Cycles

Applications

- · General Purpose
- · Laboratory Use

- Low PIM Applications
- · Indoor and Outdoor Use

Plenum Rated Applications

Description

Pasternack's PE3C7969 type N male to type N female cable using TFT-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 type N to type N cable assembly has a male to female gender configuration with 50 ohm flexible TFT-402 coax. The PE3C7969 type N male to type N female cable assembly operates to 5.8 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		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
RF Shielding	-80			dB
Passive Intermodulation			-160	dBc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to N Female Low PIM Cable Using TFT-402 Coax Using Times Microwave Components PE3C7969

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





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Capacitance	26.7 [87.6]	pF/ft [pF/m]
DC Resistance Inner Conductor	8.5 [27.89]	Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor	5.6 [18.37]	Ω/1000ft [Ω/Km]

Specifications by Fre	equency					
Description	F1	F2	F3	F4	F5	Units
requency	0.25	0.5	1	2.5	5.8	GHz
nsertion Loss (Typ.)	0.05	0.07	0.1	0.17	0.26	dB/ft
	0.16	0.23	0.33	0.56	0.85	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB for the male connector and 0.1 dB for the female connector.

Mechanical Specifications

Cable Assembly

Cabl	е
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Cable Type TFT-402
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PTFE
Number of Shields 2
Shield Layer 1 Silver Plated Copper Braid
Shield Layer 2 Tinned Copper Braid

Shield Layer 2 Tinned Copper Braid
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	
Туре	N Male	N Female	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500	500	
Contact Material and Plating	Brass, Silver	Phosphor Bronze, Silver	
Contact Plating Specification	200 μin	5 μm	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Copper Clad Aluminum	
Outer Conductor Plating Specification		3 μm	
Body Material and Plating	Brass, Tri-Metal	Brass, Copper Clad Aluminum	
Body Plating Specification	80 μin	3 µm	
Coupling Nut Material and Plating	Brass, Tri-Metal		
Coupling Nut Plating Specification	80 μin		
Torque	15 in-lbs [1.7 Nm]	10 in-lbs [1.13 Nm]	

Environmental Specifications

Temperature

Operating Range

-40 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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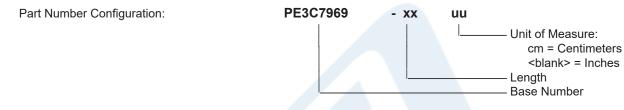




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How to Order



Example: PE3C7969-12 = 12 inches long cable PE3C7969-100cm = 100 cm long cable

N Male to N Female Low PIM Cable Using TFT-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.

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URL: https://www.pasternack.com/n-male-n-female-tft-402-cable-assembly-pe3c7969-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.

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PE3C7969 CAD Drawing
N Male to N Female Low PIM Cable Using TFT-402 Coax **Using Times Microwave Components**

