

# N Male to N Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components



# PE3C7966

#### Configuration

Connector 1: N MaleConnector 2: N MaleCable Type: TFT-402Coax Flex Type: Flexible

#### **Features**

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

#### **Applications**

· General Purpose

· Laboratory Use

Low PIM Applications

### **Description**

Pasternack's PE3C7966 type N male to type N male 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 male gender configuration with 50 ohm flexible TFT-402 coax. The PE3C7966 type N male to type N male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance. 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			
Capacitance		26.7 [87.6]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.5 [27.89]		Ohms/1000ft [Ohms/Km]



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# **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
DC Resistance Outer Conductor		5.6 [18.37]		Ohms/1000ft [Ohms/Km]

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.057	0.083	0.117	0.19	0.295	dB/ft
	0.19	0.27	0.38	0.62	0.97	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 per connector.

## **Mechanical Specifications**

#### **Cable Assembly**

Width/Diameter 0.5 in [12.7 mm]

Cable

Cable Type TFT-402 Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper, Silver

Dielectric Type **PTFE** Number of Shields Shield Layer 1 Silver Plated Copper Braid

Shield Layer 2 Tinned Copper Braid FEP, Blue

Jacket Material

0.16 in [4.06 mm] Jacket Diameter 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 Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	200 μin	200 μin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μin	80 μin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 μin	80 μin
Torque	15 in-lbs 1.7 Nm	15 in-lbs 1.7 Nm

# **Environmental Specifications**

Operating Range Temperature

-40 to +125 deg C

Compliance Certifications (see product page for current document)

# **Plotted and Other Data**

Notes:



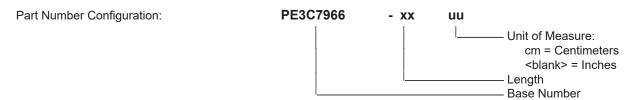
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# **Typical Performance Data**

#### **How to Order**



Example: PE3C7966-12 = 12 inches long cable

PE3C7966-100cm = 100 cm long cable

N Male to N Male 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.

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 Male Low PIM Cable Using TFT-402 Coax Using Times Microwave Components PE3C7966

URL: https://www.pasternack.com/n-male-n-male-tft-402-cable-assembly-pe3c7966-p.aspx

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