



### PE3C7998-50CM

#### Configuration

Connector 1: N MaleConnector 2: N MaleCable Type: TFT-5G-402Coax Flex Type: Flexible

#### **Features**

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

# Center Conductor Dielectric Shield Outer Braid Jacket .160 [4.06]

#### **Applications**

- · General Purpose
- · Laboratory Use

- Low PIM Applications
- Indoor and Outdoor Use
- · Plenum Rated Applications

## **Description**

Pasternack's PE3C7998-50CM type N male to type N male 50 cm 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 type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible TFT-5G-402 coax. The PE3C7998-50CM type N male to type N male 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
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				





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## **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	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.22	0.28	0.39	0.65	0.98	dB

**Electrical Specification Notes:** 

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1\*SQRT(FGHz) dB per connector.

FEP, Blue

#### **Mechanical Specifications**

**Cable Assembly** 

Length 19.68 in [499.87 mm] Width/Diameter .88 in [20.52 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 Jacket Material

Jacket Diameter0.16 in [4.06 mm]One Time Minimum Bend Radius0.75 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:

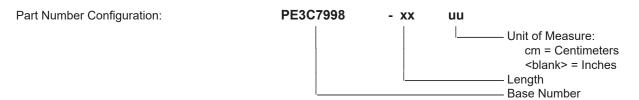




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# **Typical Performance Data**

#### **How to Order**



Example: PE3C7998-12 = 12 inches long cable

PE3C7998-100cm = 100 cm long cable

N Male to N Male Low PIM Cable 50 CM Length 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: N Male to N Male Low PIM Cable 50 CM Length Using TFT-5G-402 Coax Using Times Microwave Components PE3C7998-50CM

URL: https://www.pasternack.com/n-male-to-n-male-low-pim-cable-50-cm-length-using-tft-5g-402-pe3c7998-50cm-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.

