

# 2.4mm Male to 2.4mm Male Cable Using PE-P086HF Coax



## RF Cable Assemblies Technical Data Sheet

PE3C7803-50CM

## Configuration

Connector 1: 2.4mm Male
Connector 2: 2.4mm Male
Cable Type: PE-P086HF

#### **Features**

- Max Frequency 40 GHz
- 70% Phase Velocity
- · Double Shielded
- FEP Jacket

# **Applications**

· General Purpose

Laboratory Use

#### **Description**

Pasternack's PE3C7803-50CM 2.4mm male to 2.4mm male 50 cm cable using PE-P086HF 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 2.4mm to 2.4mm cable assembly has a male to male gender configuration with 50 ohm flexible PE-P086HF coax. The PE3C7803-50CM 2.4mm male to 2.4mm male cable assembly operates to 40 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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		40	GHz
VSWR			1.5:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	40	GHz
Insertion Loss (Typ.)	0.67	0.98	1.43	2.1	3.18	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 2.4mm Male to 2.4mm Male Cable Using PE-P086HF Coax PE3C7803-50CM

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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**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 0.05\*SQRT(FGHz) dB per connector loss.

## **Mechanical Specifications**

**Cable Assembly** 

Length\* 19.68 in [499.87 mm]
Diameter 0.314 in [7.98 mm]

Cable

Cable Type PE-P086HF Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type PTFE
Number of Shields 2

Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Silver Plated Copper Braid
Jacket Material FEP, Blue
Jacket Diameter 0.104 in [2.64 mm]

Repeated Minimum Bend Radius 0.52 in [13.21 mm]

#### **Connectors**

Description	Connector 1	Connector 2	
Туре	2.4mm Male	2.4mm Male	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nicke	
Contact Plating Specification	4μ in Min	4μ in Min	
Dielectric Type	Oxide Noryl	Oxide Noryl	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Hex Size	5/16 inch	5/16 inch	

#### **Environmental Specifications**

Temperature

Operating Range -55 to +200 deg C

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Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

#### **How to Order**



Example: PE3C7803-12 = 12 inches long cable PE3C7803-100cm = 100 cm long cable

2.4mm Male to 2.4mm Male Cable Using PE-P086HF Coax 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: 2.4mm Male to 2.4mm Male Cable Using PE-P086HF Coax PE3C7803-50CM

URL: https://www.pasternack.com/2.4mm-male-2.4mm-male-pe-p086hf-cable-assembly-pe3c7803-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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**PE3C7803-50CM CAD Drawing**2.4mm Male to 2.4mm Male Cable Using PE-P086HF Coax

