

RF Cable Assemblies Technical Data Sheet

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 2.4mm male to 2.4mm male 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 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.

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

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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PE3C7803





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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.)	0.31	0.45	0.67	1	1.55	dB/ft
	1.02	1.48	2.2	3.28	5.09	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. The Insertion Loss includes an estimated insertion loss of 0.05*SQRT(FGHz) dB per connector loss.

Mechanical Specifications

Cable Assembly Diameter

Cable

Cable Type Impedance Inner Conductor Type Inner Conductor Material and Plating Dielectric Type Number of Shields Shield Layer 1 Shield Layer 2 Jacket Material Jacket Diameter

Repeated Minimum Bend Radius

0.314 in [7.98 mm]

PE-P086HF 50 Ohms Solid Copper Clad Steel, Silver PTFE 2 Silver Plated Copper Tape Silver Plated Copper Braid FEP, Blue 0.104 in [2.64 mm]

0.52 in [13.21 mm]

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Connectors

Description	Connector 1	Connector 2 2.4mm Male	
Туре	2.4mm Male		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel	
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	С
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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order Part Number Configuration: PE3C7803 - XX uu - Unit of Measure: cm = Centimeters <blank> = Inches Length **Base Number** 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 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 CAD Drawing 2.4mm Male to 2.4mm Male Cable Using PE-P086HF Coax

