



RF Cable Assemblies Technical Data Sheet

PE3C0728-100CM

Configuration

Connector 1: 2.4mm MaleConnector 2: 2.4mm MaleCable Type: PE-P086HF

Features

- Max Frequency 50 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket

Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3C0728-100CM 2.4mm male to 2.4mm male 100 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 PE3C0728-100CM 2.4mm male to 2.4mm male cable assembly operates to 50 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 110 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.

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 100 cm Length Using PE-P086HF Coax PE3C0728-100CM

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 Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
VSWR			1.4:1	
Return Loss			-15.56	dB
Insertion Loss			5.6	dB
Velocity of Propagation		69.5		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Specifications by Frequency

Specifications by Fre	quency					
Description	F1	F2	F3	F4	F5	Units
Frequency	2.5	5	10	20	40	GHz
Insertion Loss (Max.)	1.3	1.8	2.5	3.7	5.6	dB
Insertion Loss (Typ.)	1.2	1.6	2.3	3.4	5	dB

Mechanical Specifications

Cable Assembly

 Length*
 39.37 in [100 cm]

 Diameter
 0.312 in [7.92 mm]

 Weight
 0.056 lbs [25.4 g]

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

Outer Conductor Diameter 0.104 in [2.64 mm]

Jacket Material FEP, Blue

One Time Minimum Bend Radius

0.4 in [10.16 mm]

Repeated Minimum Bend Radius

1.57 in [39.88 mm]

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0.104 in [2.64 mm]

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Jacket Diameter

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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	Beryllium Copper, Gold	
Contact Plating Specification	MIL-G-45204 MIL-G-4520		
Dielectric Type	Noryl	Noryl	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Plating Specification	ASTM A380	ASTM A380	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Plating Specification	ASTM A380	ASTM A380	
Hex Size	5/16 in.	5/16 in.	
Torque	8 in-lbs [0.9 Nm]	8 in-lbs [0.9 Nm]	

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range -40 to +105 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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How to Order



Example: PE3C0728-12 = 12 inches long cable PE3C0728-100cm = 100 cm long cable

2.4mm Male to 2.4mm Male Cable 100 cm Length 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 100 cm Length Using PE-P086HF Coax PE3C0728-100CM

URL: https://www.pasternack.com/2.4mm-male-2.4mm-male-pe-p086hf-cable-assembly-pe3c0728-100cm-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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PE3C0728-100CM CAD Drawing
2.4mm Male to 2.4mm Male Cable 100 cm Length Using PE-P086HF Coax

