



2.4mm Male to 2.4mm Male Cable 50 cm
Length Using PE-P086HF Coax

RF Cable Assemblies Technical Data Sheet

PE3C0728-50CM

Configuration

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		50	GHz
VSWR			1.4:1	
Return Loss			-15.56	dB
Insertion Loss			2.9	dB
Velocity of Propagation		69.5		%
RF Shielding	110			dB
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 (Max.)	0.76	1	1.4	1.9	2.9	dB
Insertion Loss (Typ.)	0.7	0.92	1.28	1.8	2.6	dB

Mechanical Specifications

Cable Assembly

Length* 19.69 in [500.13 mm]
 Diameter 0.312 in [7.92 mm]
 Weight 0.053 lbs [24.04 g]

Cable

Cable Type PE-P086HF

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 50 cm Length Using PE-P086HF Coax PE3C0728-50CM](#)





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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
Jacket Diameter	0.104 in [2.64 mm]
One Time Minimum Bend Radius	0.4 in [10.16 mm]
Repeated Minimum Bend Radius	1.57 in [39.88 mm]

Connectors

Description	Connector 1	Connector 2
Type	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-45204
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:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

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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How to Order

Part Number Configuration:

PE3C0728

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

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

2.4mm Male to 2.4mm Male Cable 50 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.

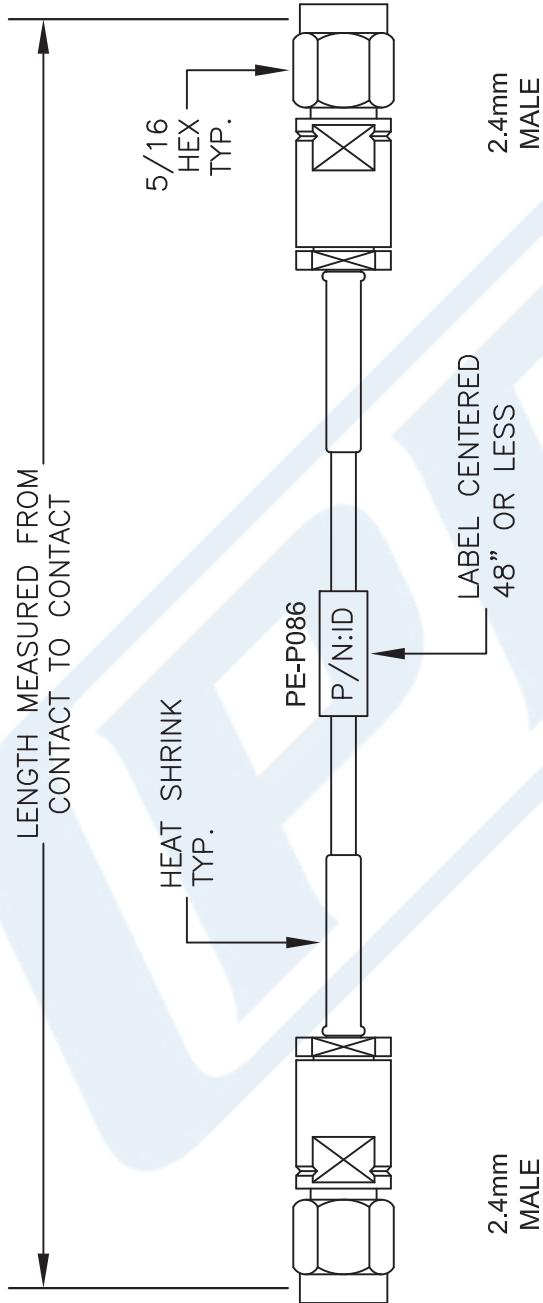
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URL: <https://www.pasternack.com/2.4mm-male-2.4mm-male-pe-p086hf-cable-assembly-pe3c0728-50cm-p.aspx>

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.

PE3C0728-50CM CAD Drawing

2.4mm Male to 2.4mm Male Cable 50 cm Length Using PE-P086HF Coax



DWG TITLE

PE3C0728

- NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
 3. DIMENSIONS ARE IN INCHES (mm).
 4. LENGTH TOLERANCE IS $\pm 1.5\%$ OR $3/8"$, WHICHEVER IS GREATER.

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SCALE N/A

SIZE A

2233