



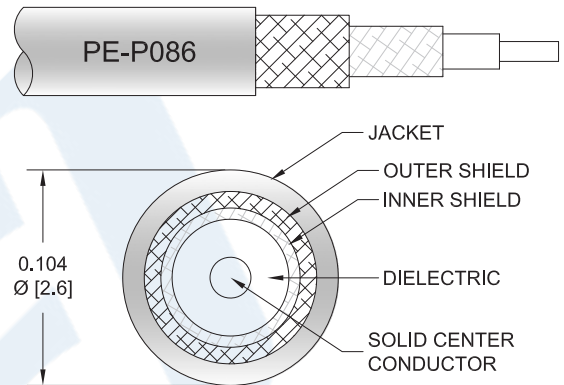
2.4mm Male to 2.92mm Male Cable 100 cm Length Using PE-P086 Coax

RF Cable Assemblies Technical Data Sheet

PE3C0747-100CM

**Configuration**

- Connector 1: 2.4mm Male
- Connector 2: 2.92mm Male
- Cable Type: PE-P086



**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.4:1	
Insertion Loss			1.9	dB
Velocity of Propagation		70		%
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.)	1.21	1.82	2.68	4.6	6.07	dB
Insertion Loss (Typ.)	1.11	1.66	2.454	3.64	5.43	dB
VSWR (Max.)	1.3:1	1.3:1	1.3:1	1.3:1	1.4:1	

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 2.92mm Male Cable 100 cm Length Using PE-P086 Coax PE3C0747-100CM](#)





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### Mechanical Specifications

#### Cable Assembly

Length\* 39.37 in [100 cm]  
 Diameter 0.312 in [7.92 mm]

#### Cable

Cable Type PE-P086  
 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]

One Time Minimum Bend Radius 0.4 in [10.16 mm]  
 Repeated Minimum Bend Radius 1.6 in [40.64 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	2.4mm Male	2.92mm Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Gold	
Dielectric Type	PPO	
Body Material and Plating	Passivated Stainless Steel	
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 in.	5/16 Inch
Torque	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 -55 to +200 deg C

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PE3C0747-100CM

**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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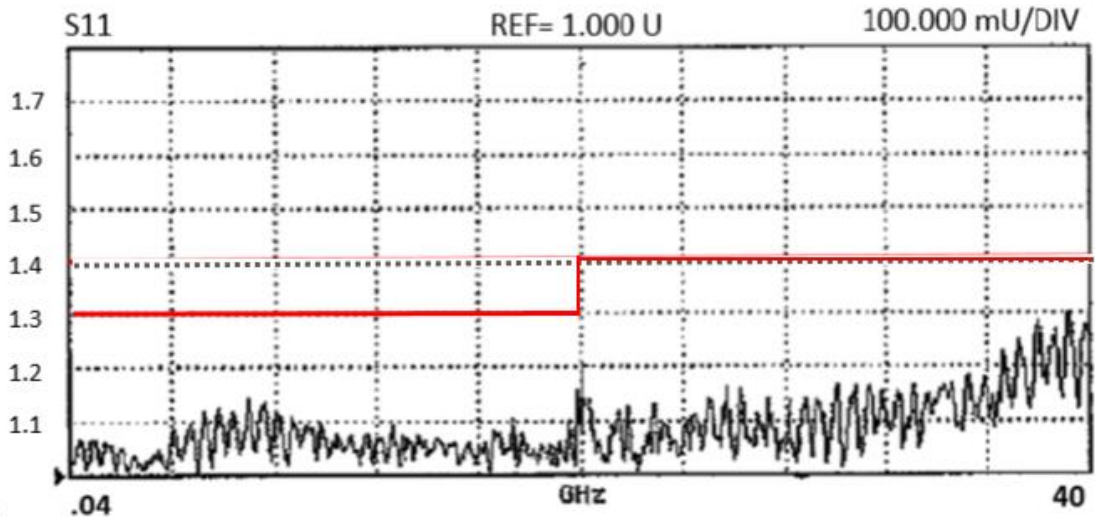
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RF Cable Assemblies Technical Data Sheet

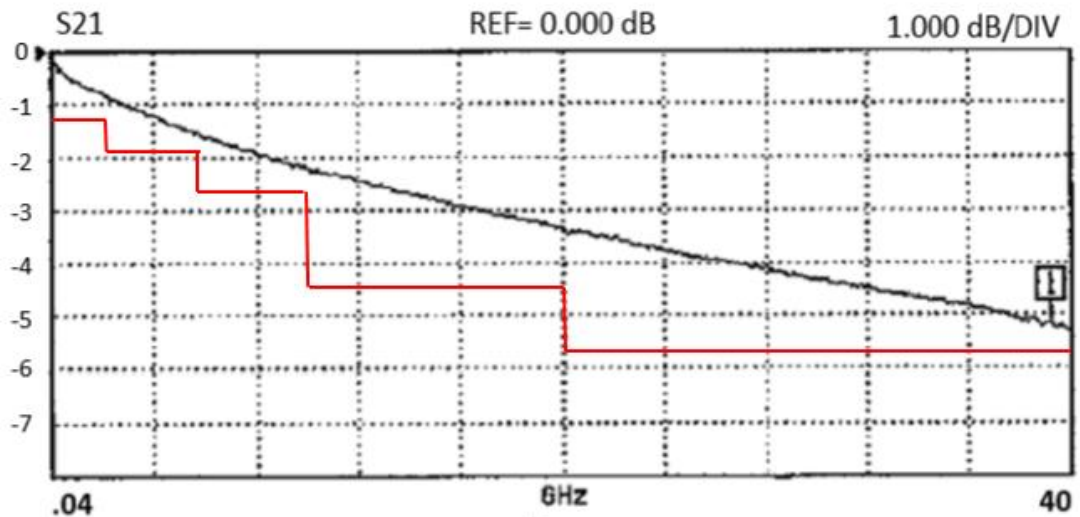
PE3C0747-100CM

Typical Performance Data

PE3C0747-36 VSWR



PE3C0747-36 Insertion Loss (dB)



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2.4mm Male to 2.92mm Male Cable 100 cm  
Length Using PE-P086 Coax

RF Cable Assemblies Technical Data Sheet

PE3C0747-100CM

**How to Order**

Part Number Configuration:

**PE3C0747**

- **xx**

**uu**

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

Example: PE3C0747-12 = 12 inches long cable  
PE3C0747-100cm = 100 cm long cable

2.4mm Male to 2.92mm Male Cable 100 cm Length Using PE-P086 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 2.92mm Male Cable 100 cm Length Using PE-P086 Coax PE3C0747-100CM](https://www.pasternack.com/2.4mm-male-2.92mm-male-pe-p086-cable-assembly-pe3c0747-100cm-p.aspx)

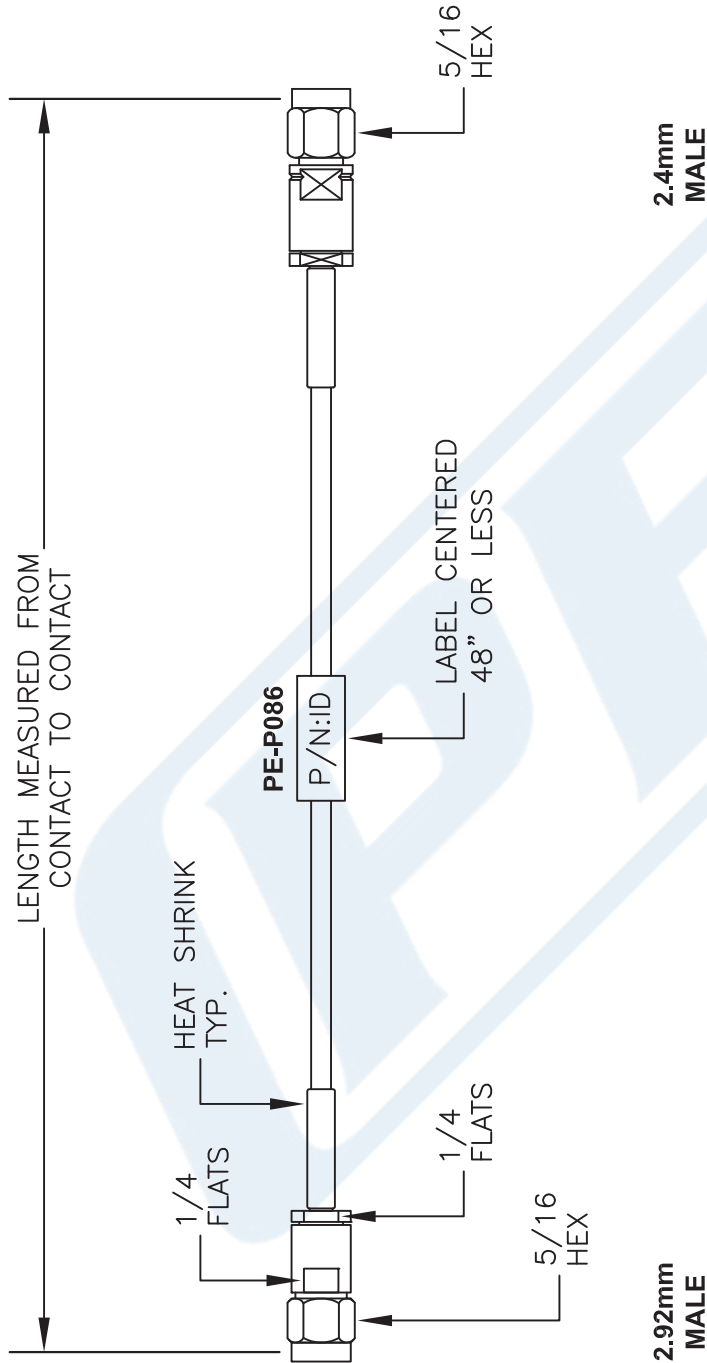
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. 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.



# PE3C0747-100CM CAD Drawing

2.4mm Male to 2.92mm Male Cable 100 cm Length Using PE-P086 Coax



2.92mm  
MALE

2.4mm  
MALE

How To Order		Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
Part Number Configuration PE3 [zzz] [yy] - [xx] [uu] 00 - 99999 LF = RoHS Compliant < Blank > = Standard Note: LF applies only to RF cables	Examples	-12	12"	-25CM	25Cm
	PE3000LF-100	-24	24"	-50CM	50Cm
	PE3000-100	-36	36"	-75CM	75Cm
	PE3000LF-100CM	-48	48"	-100CM	100Cm
	PE3000-100CM	-60	60"	-125CM	125Cm
		-XX	Custom Length	-XXCM	Custom Length

- 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.

DWG TITLE  
**PE3C0747**

**PE PASTERNAK**  
THE ENGINEER'S RF SOURCE  
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