



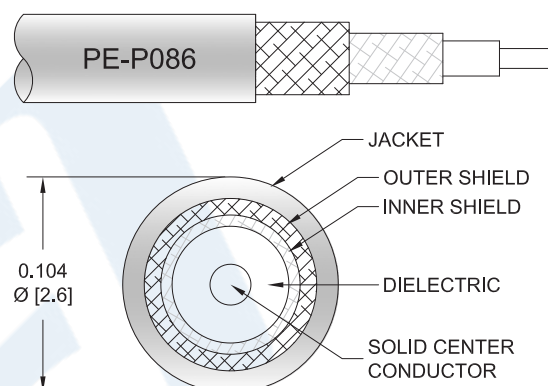
2.4mm Male to 2.92mm Male Cable Using PE-P086 Coax

RF Cable Assemblies Technical Data Sheet

PE3C0747

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/ft |
| | | | 6.23 | dB/m |
| 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.) | 0.33 | 0.5 | 0.74 | 1.3 | 1.7 | dB/ft |
| | 1.08 | 1.64 | 2.43 | 4.27 | 5.58 | dB/m |
| Insertion Loss (Typ.) | 0.3 | 0.45 | 0.67 | 1 | 1.5 | dB/ft |
| | 0.98 | 1.48 | 2.2 | 3.28 | 4.92 | dB/m |
| 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 Using PE-P086 Coax PE3C0747](#)



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Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as .05dB X SQRT Frequency (GHz) per connector

Mechanical Specifications

Cable Assembly

Diameter 0.312 in [7.92 mm]

Weight 0.18 lbs [81.65 g]

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

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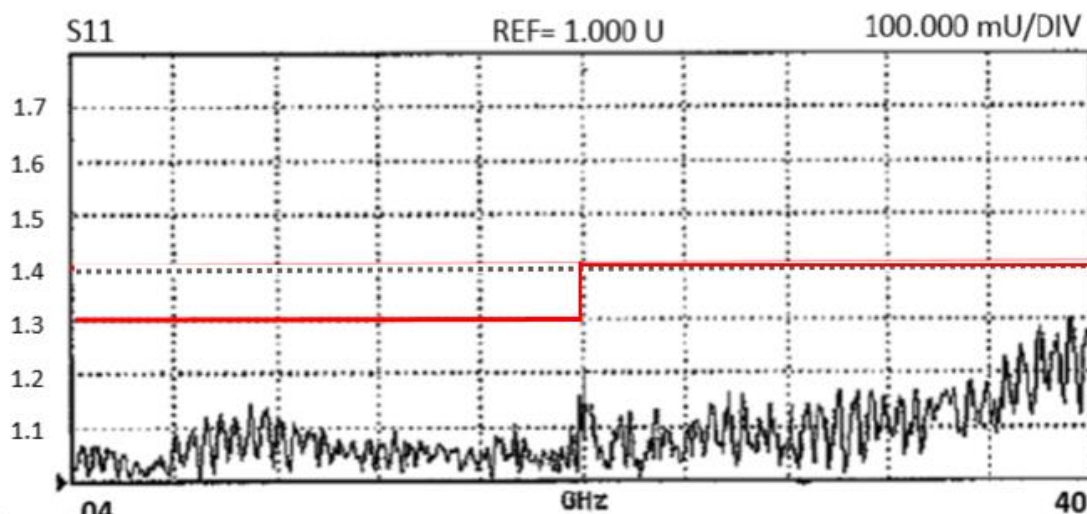
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RF Cable Assemblies Technical Data Sheet

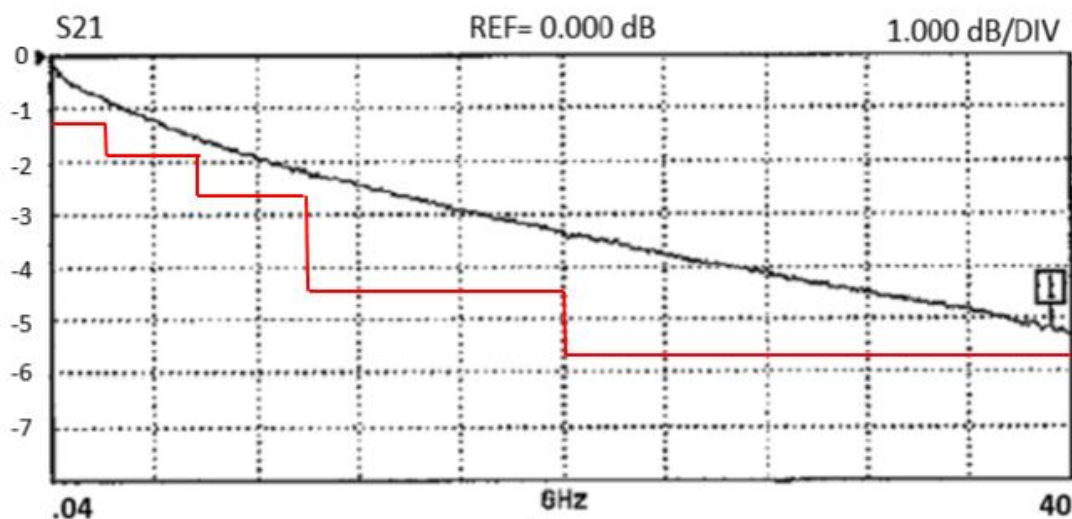
PE3C0747

Typical Performance Data

PE3C0747-36 VSWR



PE3C0747-36 Insertion Loss (dB)



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2.4mm Male to 2.92mm Male Cable Using PE-P086 Coax

RF Cable Assemblies Technical Data Sheet

PE3C0747

How to Order

Part Number Configuration:

PE3C0747

- **xx**

uu

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

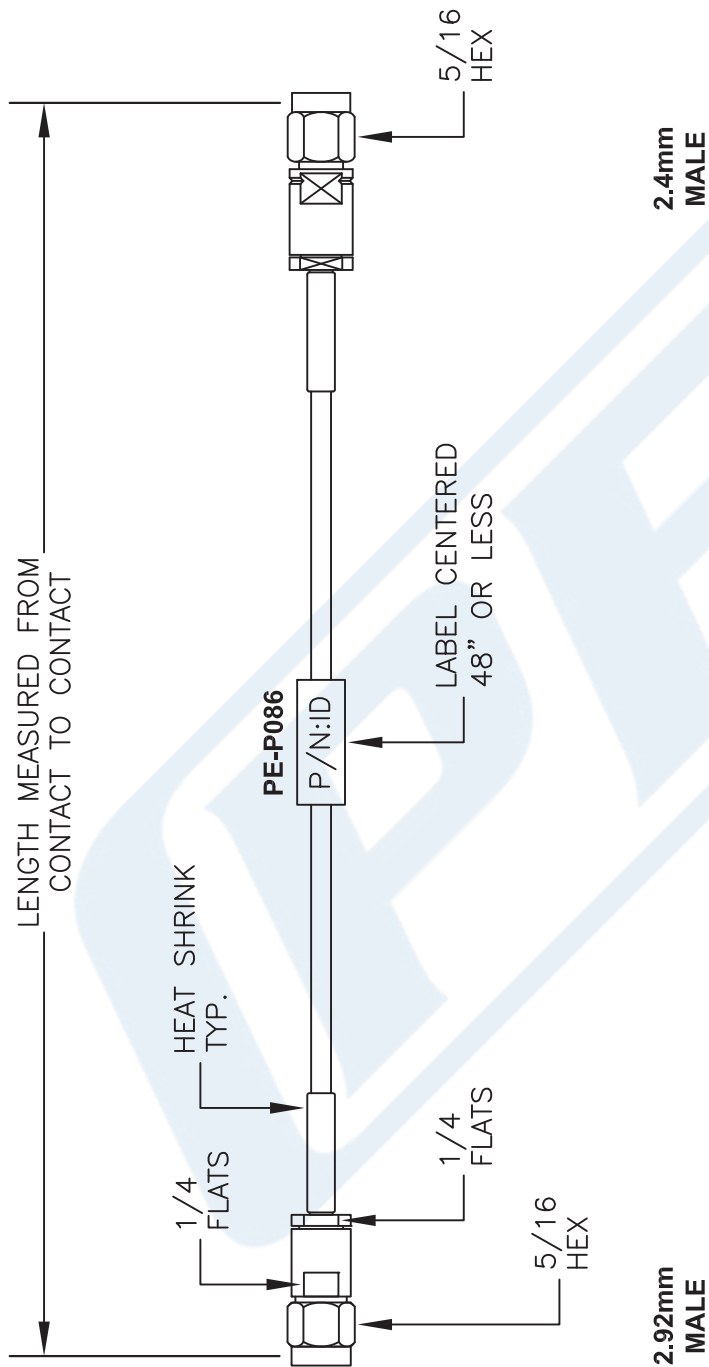
Example: PE3C0747-12 = 12 inches long cable
PE3C0747-100cm = 100 cm long cable

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

URL: <https://www.pasternack.com/2.4mm-male-2.92mm-male-pe-p086-cable-assembly-pe3c0747-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.



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

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FSCM NO. 53919

SCALE N/A

SIZE A

2233