



SMP Female to SMP Female Cable 48 Inch Length Using PE-P047 Coax

RF Cable Assemblies Technical Data Sheet

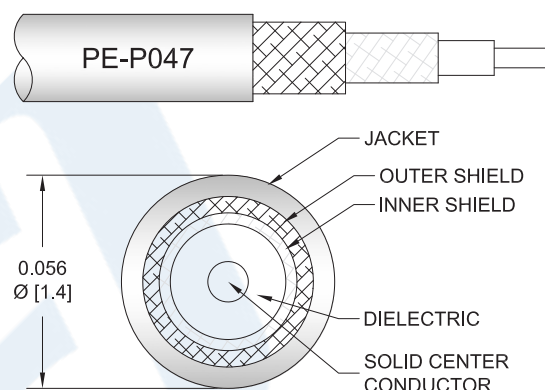
PE3C0757-48

Configuration

- Connector 1: SMP Female
- Connector 2: SMP Female
- Cable Type: PE-P047

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0757-48 SMP female to SMP female 48 inch cable using PE-P047 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 SMP to SMP cable assembly has a female to female gender configuration with 50 ohm flexible PE-P047 coax. The PE3C0757-48 SMP female to SMP female cable assembly operates to 18 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 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.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|------------|---------|--------------|
| Frequency Range | DC | | 18 | GHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 70 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 29 [95.14] | | pF/ft [pF/m] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female to SMP Female Cable 48 Inch Length Using PE-P047 Coax PE3C0757-48](#)



SMP Female to SMP Female Cable 48 Inch
Length Using PE-P047 Coax

RF Cable Assemblies Technical Data Sheet

PE3C0757-48

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-----|------|-----|-----|-----|-------|
| Frequency | 1 | 2 | 4.5 | 9 | 18 | GHz |
| Insertion Loss (Max.) | 1.6 | 2.28 | 3.6 | 5.2 | 7.4 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm]
Diameter 0.134 in [3.4 mm]

Cable

Cable Type PE-P047
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver
Dielectric Type FEP
Number of Shields 2
Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Silver Plated Copper Braid
Jacket Material FEP, Blue
Jacket Diameter 0.056 in [1.42 mm]

One Time Minimum Bend Radius 0.2 in [5.08 mm]
Repeated Minimum Bend Radius 0.4 in [10.16 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female to SMP Female Cable 48 Inch Length Using PE-P047 Coax PE3C0757-48](#)



SMP Female to SMP Female Cable 48 Inch Length Using PE-P047 Coax

RF Cable Assemblies Technical Data Sheet

PE3C0757-48

Connectors

| Description | Connector 1 | Connector 2 |
|-------------------------------|------------------------|------------------------|
| Type | SMP Female | SMP Female |
| Specification | DESC 94008 | DESC 94008 |
| 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 | PTFE | PTFE |
| Body Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Body Plating Specification | MIL-G-45204 | MIL-G-45204 |

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 -65 to +165 deg C

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female to SMP Female Cable 48 Inch Length Using PE-P047 Coax PE3C0757-48](#)

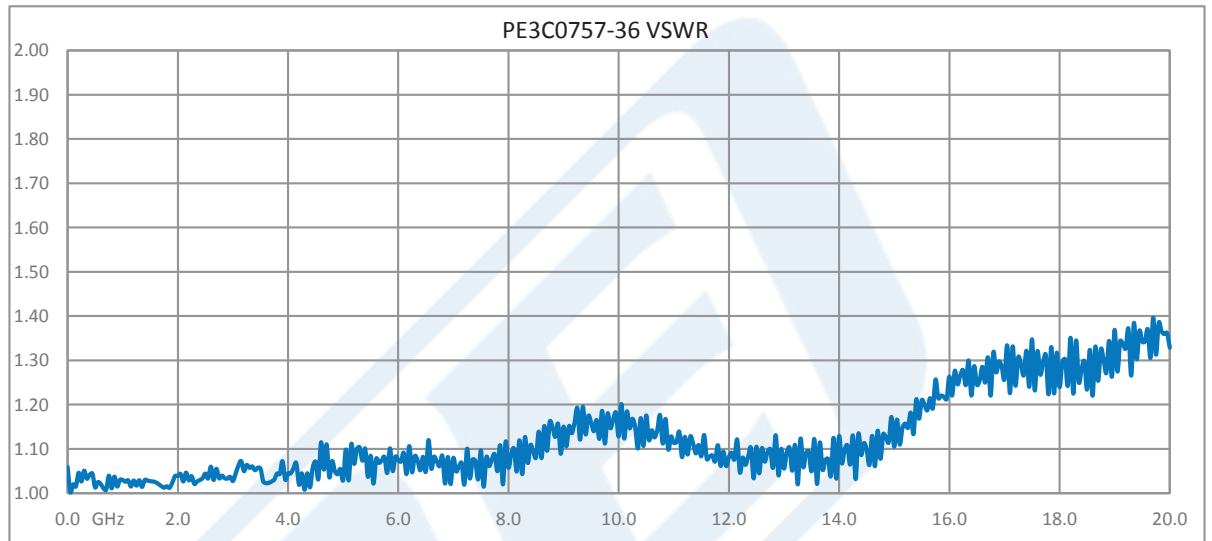


SMP Female to SMP Female Cable 48 Inch
Length Using PE-P047 Coax

RF Cable Assemblies Technical Data Sheet

PE3C0757-48

Typical Performance Data



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female to SMP Female Cable 48 Inch Length Using PE-P047 Coax PE3C0757-48](#)



SMP Female to SMP Female Cable 48 Inch
Length Using PE-P047 Coax

RF Cable Assemblies Technical Data Sheet

PE3C0757-48

How to Order

Part Number Configuration:

PE3C0757

- **xx**

uu

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

Example: PE3C0757-12 = 12 inches long cable
PE3C0757-100cm = 100 cm long cable

SMP Female to SMP Female Cable 48 Inch Length Using PE-P047 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.

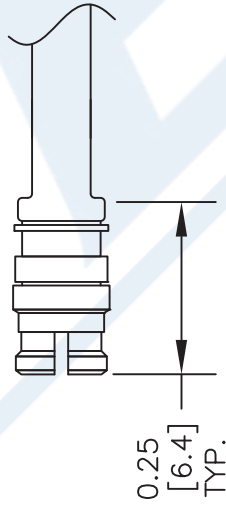
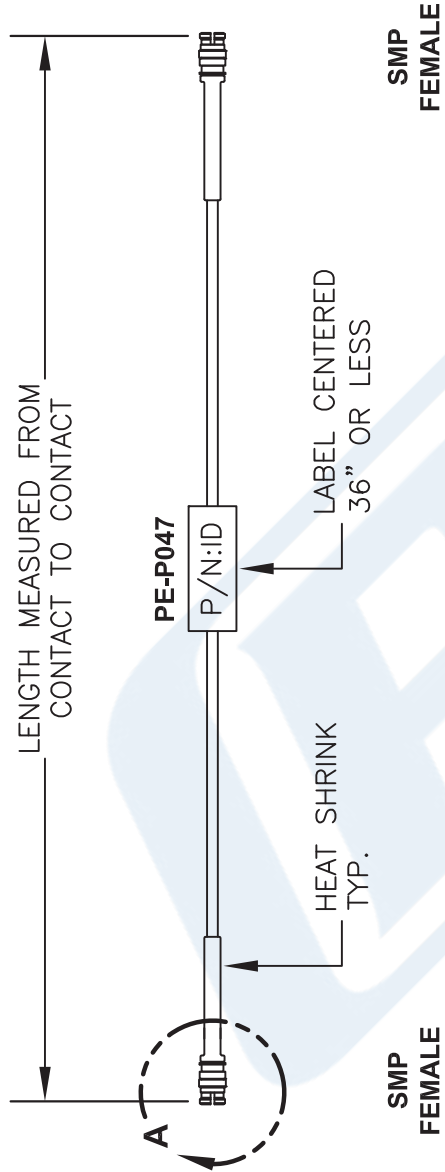
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female to SMP Female Cable 48 Inch Length Using PE-P047 Coax PE3C0757-48](#)

URL: <https://www.pasternack.com/smp-female-smp-female-pe-p047-cable-assembly-pe3c0757-48-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.

PE3C0757-48 CAD Drawing

SMP Female to SMP Female Cable 48 Inch Length Using PE-P047 Coax



View A

| Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|-------------|------------------|-------------|-----------------------|
| -12 | 12" | -25CM | 25Cm |
| -24 | 24" | -50CM | 50Cm |
| -36 | 36" | -75CM | 75Cm |
| -48 | 48" | -100CM | 100Cm |
| -60 | 60" | -125CM | 125Cm |
| -XX | Custom Length | -XXCM | Custom Length |

| How To Order | |
|---|---|
| Part Number Configuration PE3 [zzz] [yy] - [xx] [uu] 00 - 99999 LF = RoHS Compliant < Blank > = Standard Note: LF applies only to RF cables | Examples PE3000LF-100 PE3000-100 PE3000LF-100CM PE3000-100CM CM = Centimeters < Blank > = Inches 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
PE3C0757

PE PASTERNAK
 THE ENGINEER'S RF SOURCE
 Pasternack Enterprises, Inc.
 P.O. Box 16759 | Irvine | CA | 92623
 Phone: (949) 261-1920 | Fax: (949) 261-7451
 Website: www.pasternack.com | E-Mail: sales@pasternack.com

| | | | | | |
|----------|--------|-------|-----|------|------|
| CAD FILE | 030614 | SCALE | N/A | SIZE | A |
| FSCM NO. | 53919 | | | | 2233 |