



## Mini SMP Female to MMCX Plug Right Angle Cable Using PE-P047 Coax with HeatShrink

### RF Cable Assemblies Technical Data Sheet

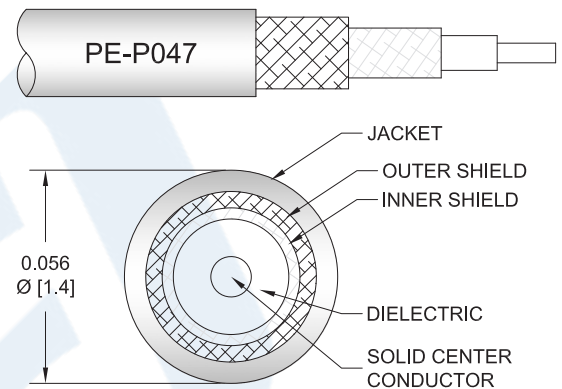
PE3C6530/HS

#### Configuration

- Connector 1: Mini SMP Female
- Connector 2: MMCX Plug Right Angle
- Cable Type: PE-P047

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C6530/HS Mini SMP female to MMCX plug right angle 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 Mini SMP to MMCX cable assembly has a female to plug gender configuration with 50 ohm flexible PE-P047 coax. The PE3C6530/HS Mini SMP female to MMCX plug cable assembly operates to 6 GHz. The right angle MMCX interface on the PE-P047 cable allows for easier connections in tight spaces. 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Mini SMP Female to MMCX Plug Right Angle Cable Using PE-P047 Coax with HeatShrink PE3C6530/HS](#)



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### Electrical Specifications

| Description             | Minimum | Typical    | Maximum | Units        |
|-------------------------|---------|------------|---------|--------------|
| Frequency Range         | DC      |            | 6       | GHz          |
| VSWR                    |         |            | 1.45:1  |              |
| Velocity of Propagation |         | 70         |         | %            |
| RF Shielding            | 90      |            |         | dB           |
| Capacitance             |         | 29 [95.14] |         | pF/ft [pF/m] |

### Specifications by Frequency

| Description           | F1   | F2   | F3   | F4   | F5 | Units |
|-----------------------|------|------|------|------|----|-------|
| Frequency             | 0.5  | 1    | 2.5  | 6    |    | GHz   |
| Insertion Loss (Max.) | 0.25 | 0.35 | 0.36 | 0.89 |    | dB/ft |
|                       | 0.82 | 1.15 | 1.18 | 2.92 |    | dB/m  |

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the Mini SMP connector and 0.2 dB for the MMCX connector.

### Mechanical Specifications

#### Cable Assembly

Diameter 0.14 in [3.56 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]

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**Connectors**

| Description                  | Connector 1            | Connector 2           |
|------------------------------|------------------------|-----------------------|
| Type                         | Mini SMP Female        | MMCX Plug Right Angle |
| Specification                | MIL-STD-348A           |                       |
| Impedance                    | 50 Ohms                | 50 Ohms               |
| Contact Material and Plating | Beryllium Copper, Gold | Brass, Gold           |
| Dielectric Type              | PTFE                   | PTFE                  |
| Body Material and Plating    | Beryllium Copper, Gold | Brass, Gold           |

**Environmental Specifications**

**Temperature**

Operating Range -55 to +155 deg C

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

**Plotted and Other Data**

Notes:

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**How to Order**

Part Number Configuration:

**PE3C6530/HS - xx uu**

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

Example: PE3C6530/HS-12 = 12 inches long cable  
PE3C6530/HS-100cm = 100 cm long cable

Mini SMP Female to MMCX Plug Right Angle Cable Using PE-P047 Coax with HeatShrink 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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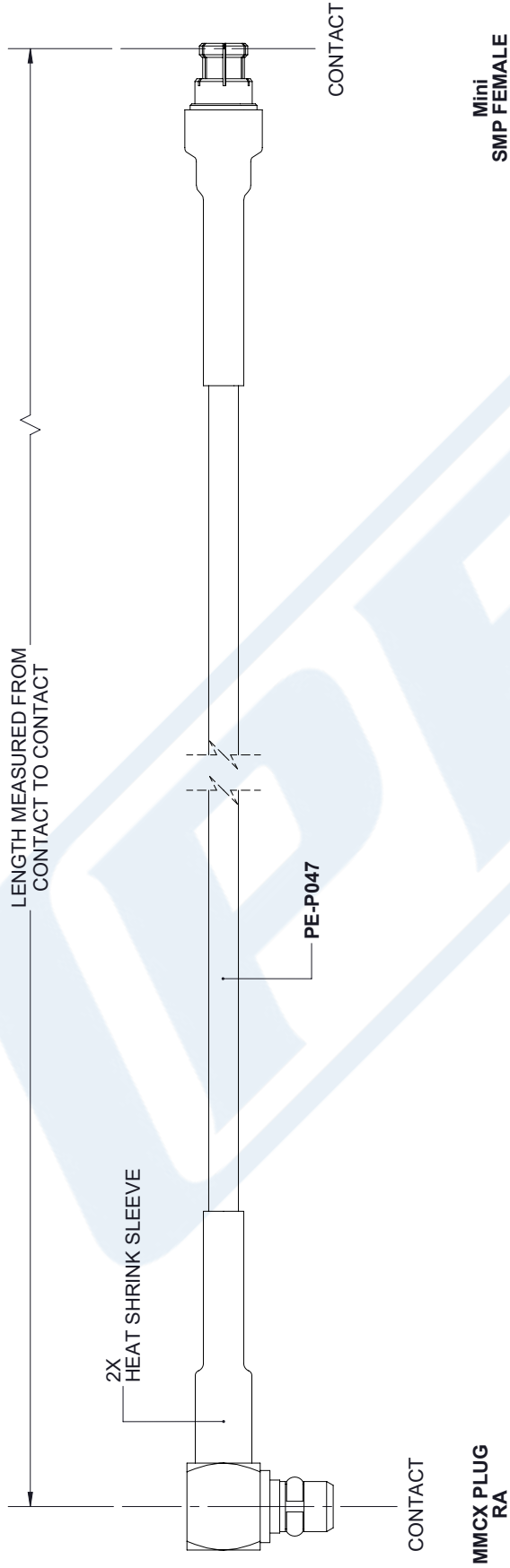
URL: <https://www.pasternack.com/mini-smp-female-mmcx-plug-pe-p047-cable-assembly-pe3c6530-hs-p.aspx>

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.

# PE3C6530/HS CAD Drawing

Mini SMP Female to MMCX Plug Right Angle Cable Using PE-P047 Coax with HeatShrink

| REVISIONS |                 |           |          |
|-----------|-----------------|-----------|----------|
| REV.      | DESCRIPTION     | DATE      | APPROVED |
| A         | INITIAL RELEASE | 8/24/2020 | S. ELLIS |



|   |   |              |  |
|---|---|--------------|--|
| <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 [ .08 ]     FRACTIONS ± 1/32<br/>         .XX = ±.02 [ .51 ]     ANGLES ± 1°<br/>         .XXX = ±.005 [ .13 ]</p> <p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0<br/>         12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0<br/>         60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0<br/>         120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0<br/>         300 [7620] &lt; L = +5% / L / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p> | <p><b>PE PASTERNAK</b><br/>an INFINIT brand</p> <p>Pasternack Enterprises, Inc.<br/>         P. O. Box 16759, Irvine, CA 92623.<br/>         Phone: 1.949.261.1920   1.866.727.8376<br/>         Fax: 1.949.261.7451<br/>         Website: www.pasternack.com<br/>         E-mail: sales@pasternack.com</p> |              | <p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p> |
|   | <p>SIZE A     CAGE CODE A     DRAWN BY K. DANG     ITEM NO. PE3C6530/HS</p>   | <p>REV A</p> | <p>REV A</p>   |

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