

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



**RF Cable Assemblies Technical Data Sheet**

**PE3C6530/HS-200CM**

**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

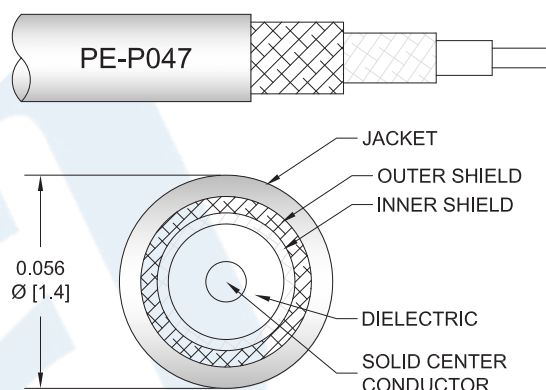
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3C6530/HS-200CM Mini SMP female to MMCX plug right angle 200 cm 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-200CM 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 200 cm Length Using PE-P047 Coax with HeatShrink PE3C6530/HS-200CM](#)



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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.) | 1.94 | 2.6 | 2.7 | 6.14 |    | dB    |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. 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**

|          |                   |
|----------|-------------------|
| Length*  | 78.74 in [200 cm] |
| 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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## RF Cable Assemblies Technical Data Sheet

**PE3C6530/HS-200CM**

### 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 200 cm Length 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.

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 200 cm Length Using PE-P047 Coax with HeatShrink PE3C6530/HS-200CM](#)

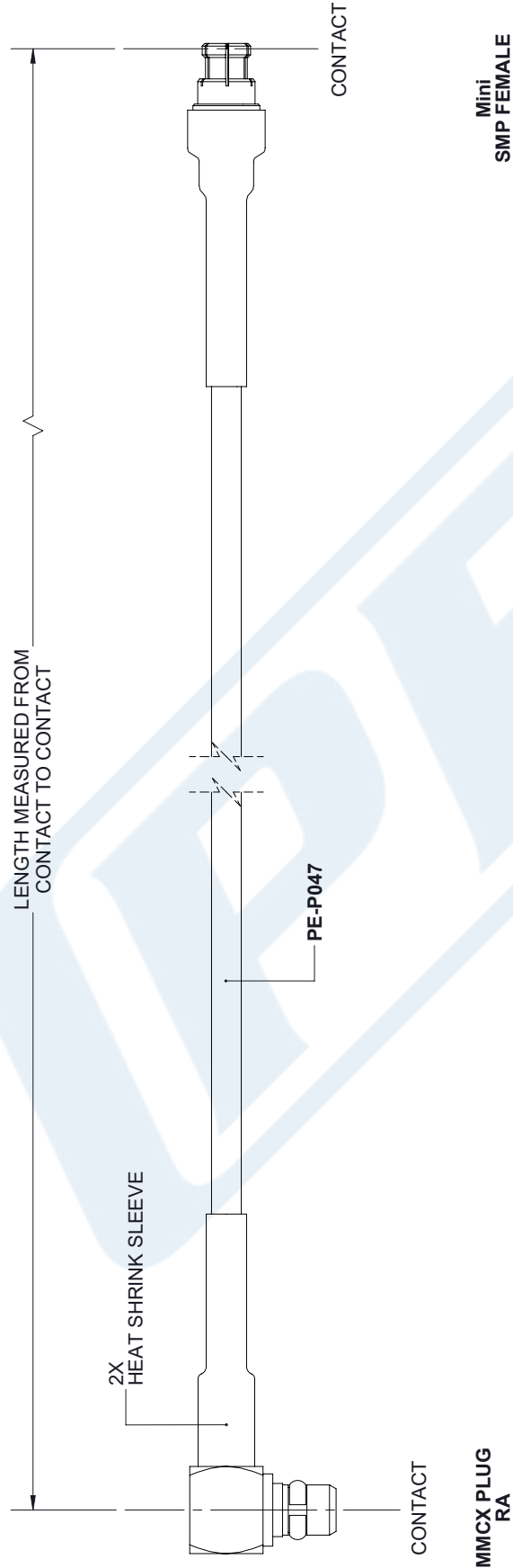
URL:

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-200CM CAD Drawing

## Mini SMP Female to MMCX Plug Right Angle Cable 200 cm

### Length Using PE-P047 Coax with HeatShrink



#### REVISIONS

| REV. | DESCRIPTION     | DATE      | APPROVED |
|------|-----------------|-----------|----------|
| A    | INITIAL RELEASE | 8/24/2020 | SELLIS   |

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

#### TOLERANCES:

.X = ± .2 [ .08 ] FRACTIONS  
.XX = ± .02 [ .51 ] ± 1/32  
.XXX = ± .005 [ .13 ] ANGLES ± 1°

#### CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5% L / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

REV A



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SIZE A CAGE CODE 53919 DRAWN BY K.DANG ITEM NO. PE3C6530/HS

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