



## SMA Female Bulkhead to MMCX Plug Right Angle Cable 50 cm Length Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

**PE34786-50CM**

#### Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: MMCX Plug Right Angle
- Cable Type: RG174

#### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE34786-50CM SMA female bulkhead to MMCX plug right angle 50 cm cable using RG174 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 SMA to MMCX cable assembly has a female to plug gender configuration with 50 ohm flexible RG174 coax. The PE34786-50CM SMA female to MMCX plug cable assembly operates to 1 GHz. The right angle MMCX interface on the RG174 cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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      |               | 1,000   | MHz          |
| VSWR                    |         |               | 1.25:1  |              |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 30.8 [101.05] |         | 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: [SMA Female Bulkhead to MMCX Plug Right Angle Cable 50 cm Length Using RG174 Coax PE34786-50CM](#)



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**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4   | F5    | Units |
|-----------------------|------|------|------|------|-------|-------|
| Frequency             | 50   | 100  | 250  | 500  | 1,000 | MHz   |
| Insertion Loss (Max.) | 0.28 | 0.32 | 0.44 | 0.53 | 0.71  | dB    |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes as estimated insertin loss of 0.1 dB per connector.

**Mechanical Specifications**

**Cable Assembly**

|          |                      |
|----------|----------------------|
| Length*  | 19.69 in [500.13 mm] |
| Diameter | 0.312 in [7.92 mm]   |
| Weight   | 0.04 lbs [18.14 g]   |

**Cable**

|                                      |                     |
|--------------------------------------|---------------------|
| Cable Type                           | RG174               |
| Impedance                            | 50 Ohms             |
| Inner Conductor Type                 | Stranded            |
| Inner Conductor Material and Plating | Copper Clad Steel   |
| Dielectric Type                      | PE (LD)             |
| Number of Shields                    | 1                   |
| Shield Layer 1                       | Tinned Copper Braid |
| Jacket Material                      | PVC, Black          |
| Jacket Diameter                      | 0.1 in [2.54 mm]    |

**Connectors**

| Description                   | Connector 1         | Connector 2           |
|-------------------------------|---------------------|-----------------------|
| Type                          | SMA Female Bulkhead | MMCX Plug Right Angle |
| Specification                 |                     | BS EN 122340          |
| Impedance                     | 50 Ohms             | 50 Ohms               |
| Contact Material and Plating  | Gold                | Brass, Gold           |
| Contact Plating Specification |                     | 30μ in. minimum       |
| Dielectric Type               |                     | Teflon                |
| Body Material and Plating     | Brass, Nickel       | Brass, Gold           |
| Body Plating Specification    |                     | 3μ in. minimum        |

**Mechanical Specification Notes:**

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to MMCX Plug Right Angle Cable 50 cm Length Using RG174 Coax PE34786-50CM](#)



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\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

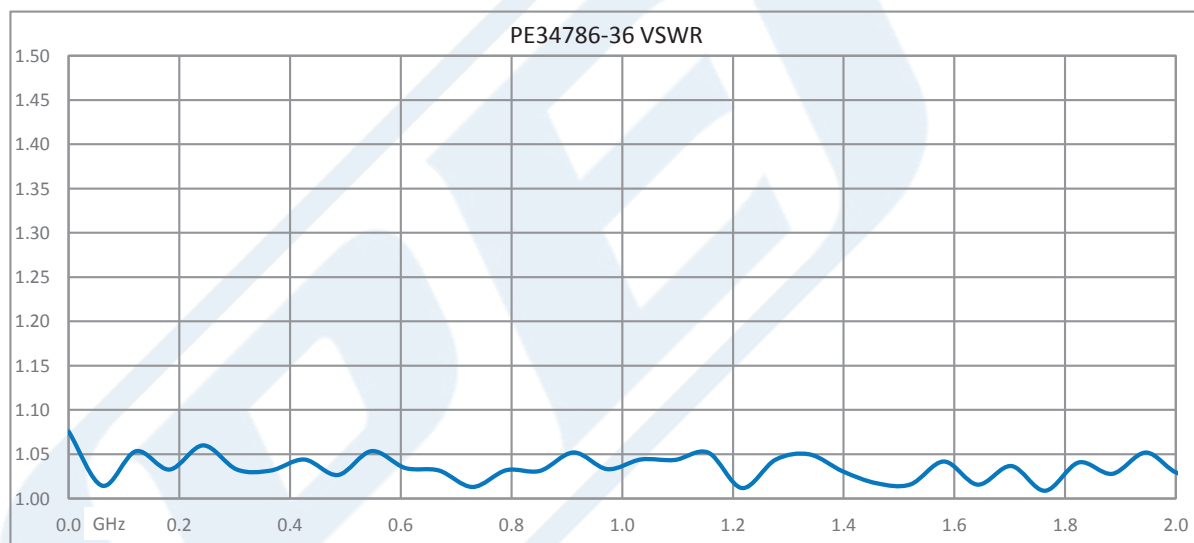
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

- Values at 25°C, sea level.

**Typical Performance Data**



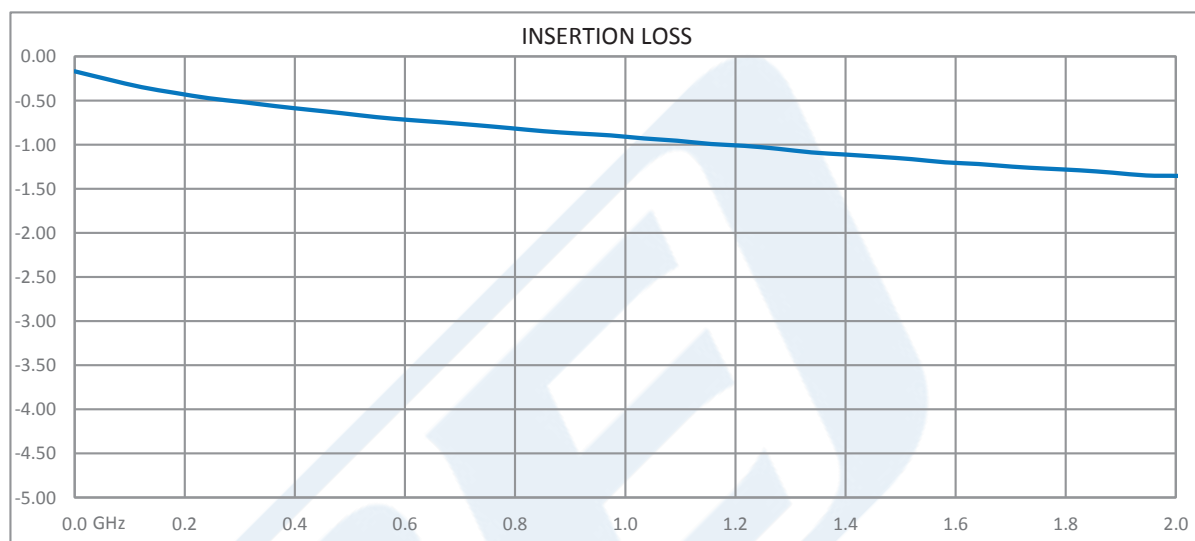
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to MMCX Plug Right Angle Cable 50 cm Length Using RG174 Coax PE34786-50CM](#)



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**PE34786-50CM**

**How to Order**

Part Number Configuration:

**PE34786**

**- xx**

**uu**

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

Example: PE34786-12 = 12 inches long cable  
PE34786-100cm = 100 cm long cable

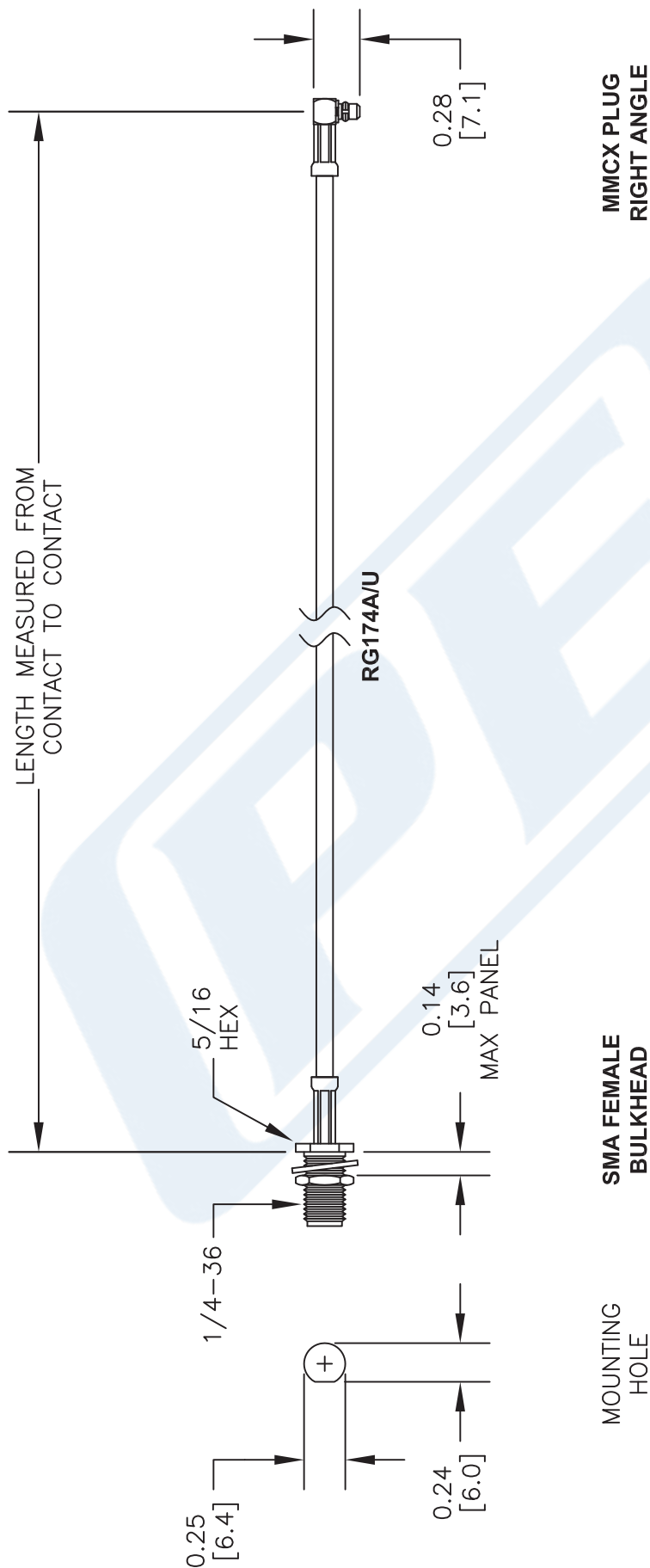
SMA Female Bulkhead to MMCX Plug Right Angle Cable 50 cm Length Using RG174 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to MMCX Plug Right Angle Cable 50 cm Length Using RG174 Coax PE34786-50CM](https://www.pasternack.com/sma-female-mmcx-plug-rg174au-cable-assembly-pe34786-50cm-p.aspx)

URL: <https://www.pasternack.com/sma-female-mmcx-plug-rg174au-cable-assembly-pe34786-50cm-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.

PE34786-50CM CAD Drawing  
SMA Female Bulkhead to MMCX Plug Right Angle  
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DWG TITLE

PE34786

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.

FSCM NO. 53919

CAD FILE 051315

SCALE N/A

SIZE A

2233

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

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