



## SMA Male to SMB Plug Right Angle Cable 12 Inch Length Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

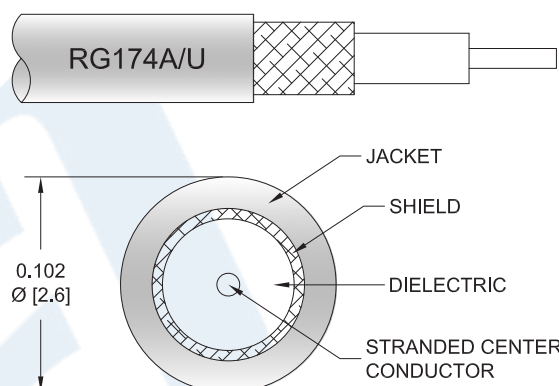
PE3W04476-12

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMB Plug Right Angle
- Cable Type: RG174

#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W04476-12 SMA male to SMB plug right angle 12 inch 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 SMB cable assembly has a male to plug gender configuration with 50 ohm flexible RG174 coax. The PE3W04476-12 SMA male to SMB plug cable assembly operates to 1 GHz. The right angle SMB interface on the RG174 cable allows for easier connections in tight spaces.

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                    |         |               | 1.5:1   |              |
| Velocity of Propagation |         | 66            |         | %            |
| Capacitance             |         | 31.1 [102.03] |         | 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 Male to SMB Plug Right Angle Cable 12 Inch Length Using RG174 Coax PE3W04476-12](#)



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**Specifications by Frequency**

| Description           | F1   | F2   | F3   | F4    | F5 | Units |
|-----------------------|------|------|------|-------|----|-------|
| Frequency             | 100  | 250  | 500  | 1,000 |    | MHz   |
| Insertion Loss (Max.) | 0.39 | 0.44 | 0.51 | 0.62  |    | dB    |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector Loss

**Mechanical Specifications**

**Cable Assembly**

|          |                    |
|----------|--------------------|
| Length*  | 12 in [304.8 mm]   |
| Diameter | 0.312 in [7.92 mm] |

**Cable**

|                                      |                           |
|--------------------------------------|---------------------------|
| Cable Type                           | RG174                     |
| Impedance                            | 50 Ohms                   |
| Inner Conductor Type                 | Stranded                  |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type                      | PE                        |
| Number of Shields                    | 1                         |
| Shield Layer 1                       | Tinned Copper Braid       |
| Jacket Material                      | PVC, Black                |
| Jacket Diameter                      | 0.11 in [2.79 mm]         |

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**Connectors**

| Description                           | Connector 1     | Connector 2            |
|---------------------------------------|-----------------|------------------------|
| Type                                  | SMA Male        | SMB Plug Right Angle   |
| Specification                         |                 | MIL-STD-348A           |
| Impedance                             | 50 Ohms         | 50 Ohms                |
| Contact Material and Plating          | Brass, Gold     | Beryllium Copper, Gold |
| Contact Plating Specification         |                 | 30 µin minimum         |
| Dielectric Type                       | Teflon          | PTFE                   |
| Outer Conductor Material and Plating  |                 | Brass, Nickel          |
| Outer Conductor Plating Specification |                 | 100 µin minimum        |
| Body Material and Plating             | Stainless Steel | Brass, Nickel          |
| Body Plating Specification            |                 | 100 µin minimum        |
| Coupling Nut Material and Plating     | Stainless Steel |                        |

**Mechanical Specification Notes:**

\*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:

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## SMA Male to SMB Plug Right Angle Cable 12 Inch Length Using RG174 Coax

### RF Cable Assemblies Technical Data Sheet

PE3W04476-12

#### How to Order

Part Number Configuration:

**PE3W04476**

- **xx**

**uu**

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

Example: PE3W04476-12 = 12 inches long cable  
PE3W04476-100cm = 100 cm long cable

SMA Male to SMB Plug Right Angle Cable 12 Inch 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 Male to SMB Plug Right Angle Cable 12 Inch Length Using RG174 Coax PE3W04476-12](#)

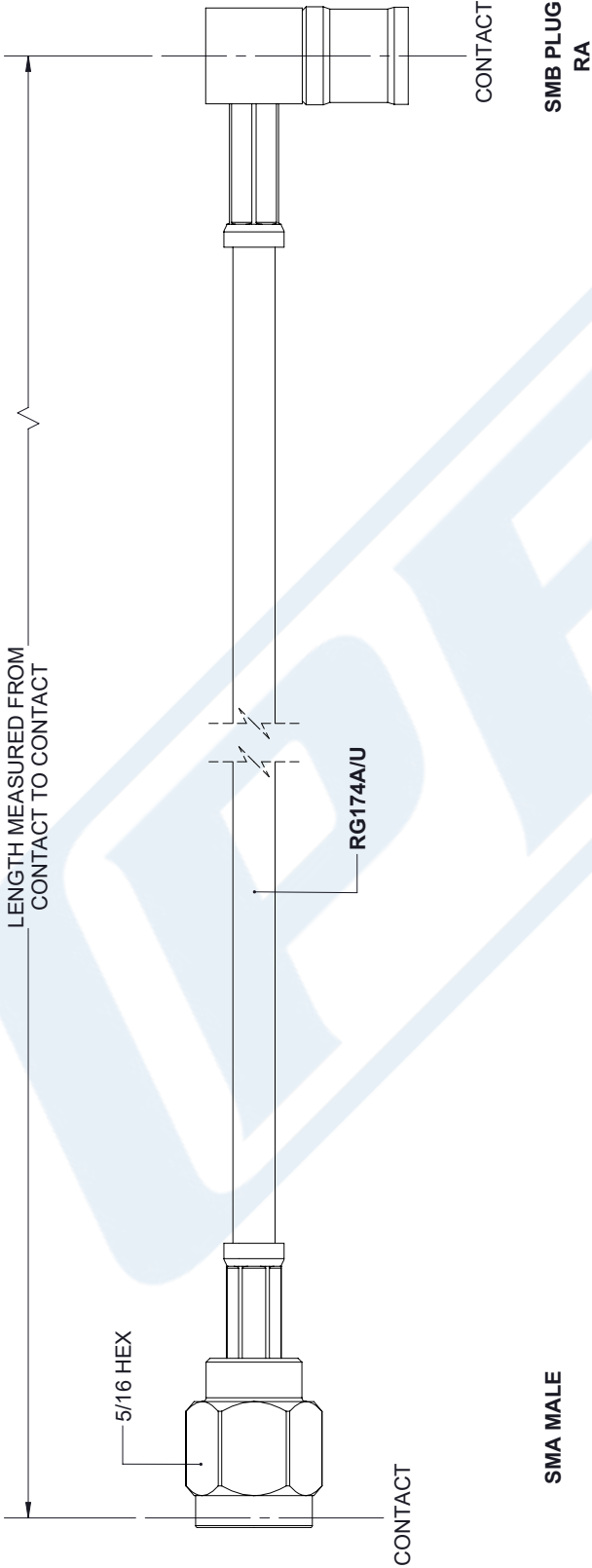
URL: <https://www.pasternack.com/sma-male-smb-plug-rg174au-cable-assembly-pe3w04476-12-p.aspx>

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.

PE3W04476-12 CAD Drawing

SMA Male to SMB Plug Right Angle Cable 12 Inch Length Using RG174 Coax

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/23/19 | SELLIS   |



|                                                                                                  |        |             |       |
|--------------------------------------------------------------------------------------------------|--------|-------------|-------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |        |             |       |
| TOLERANCES:                                                                                      |        |             |       |
| X±.2                                                                                             | [5.08] | FRACTIONS   |       |
| .XX±.01                                                                                          | [.25]  |             | ±.132 |
| .XXX±.005                                                                                        | [.13]  | ANGLES ± 1° |       |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |        |             |       |
| THIRD-ANGLE PROJECTION                                                                           |        |             |       |
|                                                                                                  |        |             |       |

|                                                                                                                           |       |                                                                                                                                                                                         |             |
|---------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
|  <b>PASTERNAK</b><br>an INFINITO brand |       | 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>www.pasternack.com   e-mail: sales@pasternack.com |             |
| SIZE                                                                                                                      | CAGE  | DRAWN BY                                                                                                                                                                                | PART NUMBER |
| A                                                                                                                         | 53919 | K.DANG                                                                                                                                                                                  | PE3W04476   |
|                                                                                                                           |       |                                                                                                                                                                                         | REV         |
|                                                                                                                           |       |                                                                                                                                                                                         | A           |

|                                                                                                                        |     |    |   |
|------------------------------------------------------------------------------------------------------------------------|-----|----|---|
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| SHEET                                                                                                                  | 1   | OF | 1 |
| SCALE                                                                                                                  | N/A |    |   |

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