

SMA Male Right Angle to SMB Plug Cable Using RG316 Coax



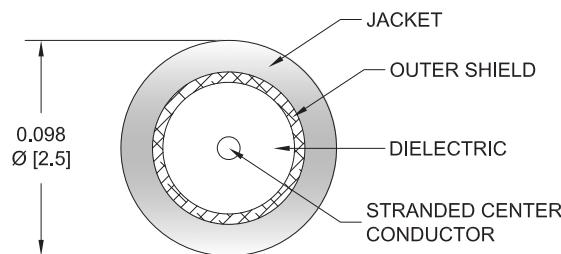
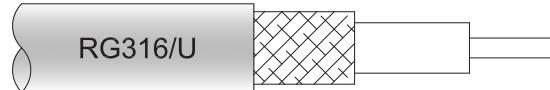
PE3W04543

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMB Plug
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04543 SMA male right angle to SMB plug cable using RG316 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 RG316 coax. The PE3W04543 SMA male to SMB plug cable assembly operates to 3 GHz. The right angle SMA interface on the RG316 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 | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | 69 | | | % |
| Operating Voltage (AC) | | | 335 | Vrms |
| Jacket Spark | | | 2,000 | Vrms |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|------|------|------|------|------|-------|--------------|
| | | Frequency | 100 | 250 | 500 | 1000 | 3000 | MHz | |
| PE3W04543 | Custom Lengths Available | Insertion Loss (Typ.) | 0.11 | 0.16 | 0.24 | 0.38 | 0.58 | dB/ft | |
| | | | 0.37 | 0.53 | 0.79 | 1.25 | 1.91 | dB/m | |
| PE3W04543-12 | 12 inch | Insertion Loss (Typ.) | 0.41 | 0.46 | 0.54 | 0.68 | 0.88 | dB | 0.034 |
| PE3W04543-24 | 24 inch | Insertion Loss (Typ.) | 0.52 | 0.62 | 0.78 | 1.06 | 1.46 | dB | 0.045 |
| PE3W04543-36 | 36 inch | Insertion Loss (Typ.) | 0.63 | 0.78 | 1.02 | 1.44 | 2.04 | dB | 0.055 |
| PE3W04543-48 | 48 inch | Insertion Loss (Typ.) | 0.74 | 0.94 | 1.26 | 1.82 | 2.62 | dB | 0.065 |
| PE3W04543-72 | 72 inch | Insertion Loss (Typ.) | 0.96 | 1.26 | 1.73 | 2.58 | 3.78 | dB | 0.085 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.2 dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.034 pounds

Additional Weight per Inch: 0.00084 pounds

Mechanical Specifications

Cable Assembly

Weight 0.034 lbs [15.42 g]

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG316 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 1 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Jacket Material | FEP, Tan |
| Jacket Diameter | 0.098 in [2.49 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|----------------------|------------------------|
| Type | SMA Male Right Angle | SMB Plug |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Right Angle | Straight |
| Contact Material and Plating | Brass, Gold | Beryllium Copper, Gold |
| Contact Plating Specification | 50 μ in minimum | 30 μ in minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 μ in minimum | 2.5 μ in minimum |
| Coupling Nut Material and Plating | Brass, Nickel | |
| Coupling Nut Plating Specification | 100 μ in minimum | |
| Hex Size | 5/16 inch | |
| Torque | 5 in-lbs 0.57 Nm | |

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

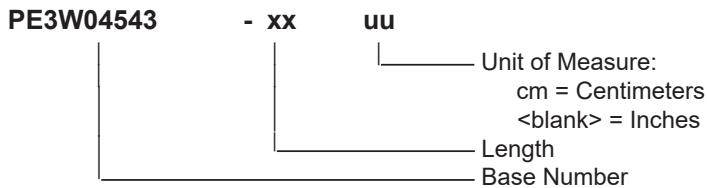
Plotted and Other Data

Notes:

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**PE3W04543****Typical Performance Data****How to Order**

Part Number Configuration:



Example: PE3W04543-12 = 12 inches long cable
PE3W04543-100cm = 100 cm long cable

SMA Male Right Angle to SMB Plug Cable Using RG316 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.

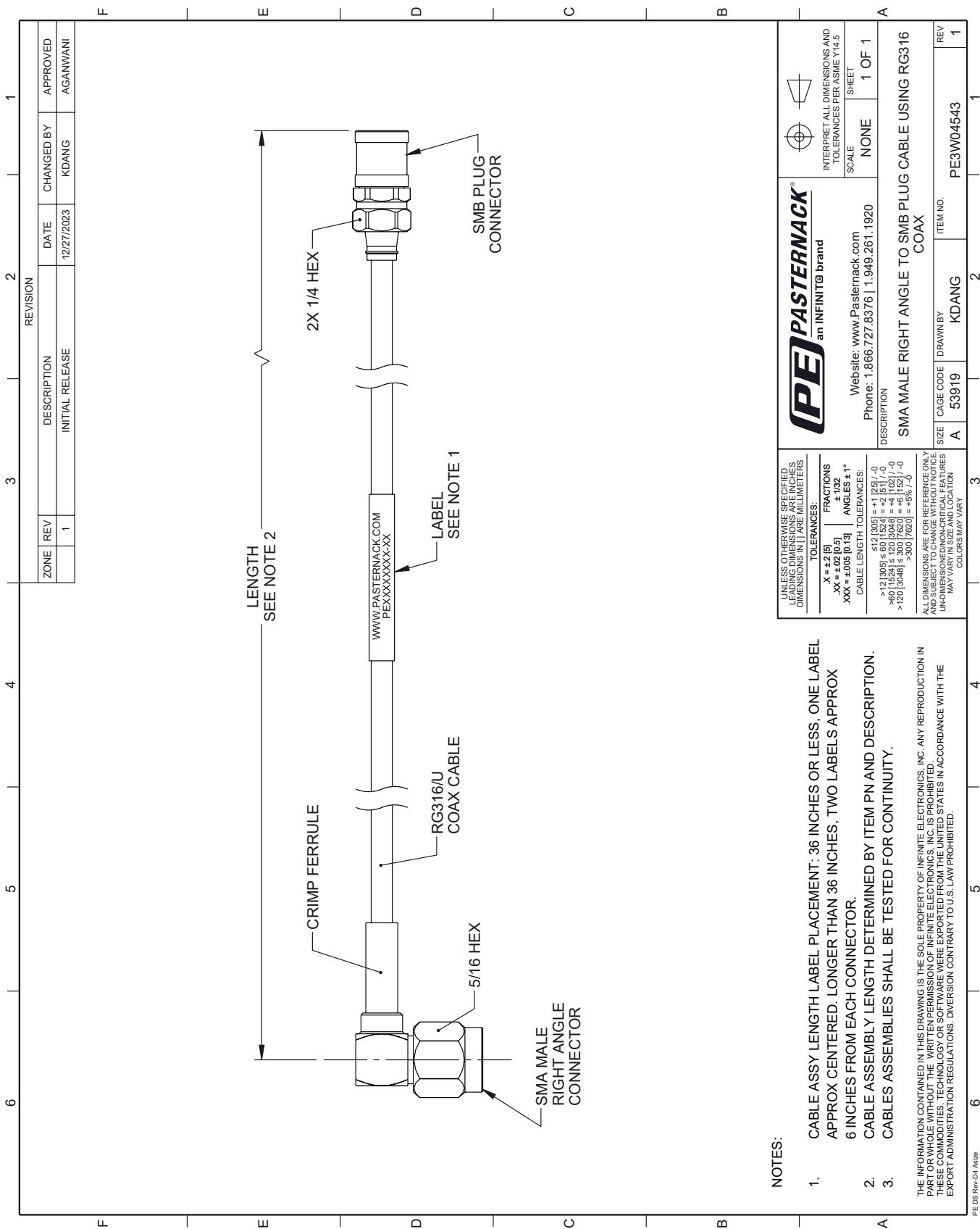
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMB Plug Cable Using RG316 Coax PE3W04543](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-smb-plug-cable-using-rg316-pe3w04543-p.aspx>

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PE3W04543 CAD Drawing

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NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. CABLES, ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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