



SMA Male Right Angle to SMA Male Cable 50 cm Length Using RG316-DS Coax

RF Cable Assemblies Technical Data Sheet

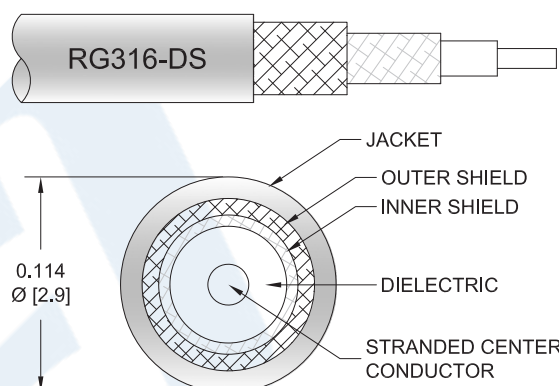
PE3W06660-50CM

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male
- Cable Type: RG316-DS

Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06660-50CM SMA male right angle to SMA male 50 cm cable using RG316-DS 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG316-DS coax. The PE3W06660-50CM SMA male to SMA male cable assembly operates to 3 GHz. The right angle SMA interface on the RG316-DS cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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 | | | 1.5:1 | |
| Velocity of Propagation | | 70 | | % |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |
| Operating Voltage (AC) | | | 335 | Vrms |

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 SMA Male Cable 50 cm Length Using RG316-DS Coax PE3W06660-50CM](#)



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Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|------|------|-------|
| Frequency | 0.25 | 0.5 | 1 | 2.5 | 3 | GHz |
| Insertion Loss (Max.) | 0.47 | 0.52 | 0.63 | 0.96 | 1.07 | 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* | 19.68 in [499.87 mm] |
| Diameter | 0.313 in [7.95 mm] |

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG316-DS |
| Impedance | 50 Ohms |
| Inner Conductor Type | Stranded |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Shield Layer 2 | Silver Plated Copper Braid |
| Jacket Material | FEP, Tan |
| Jacket Diameter | 0.114 in [2.9 mm] |
| Repeated Minimum Bend Radius | 0.6 in [15.24 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|----------------------|--------------------|
| Type | SMA Male Right Angle | SMA Male |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 50 µin minimum | 30 µin minimum |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Nickel |
| Body Plating Specification | 100 µin minimum | 100 µin minimum |
| Coupling Nut Material and Plating | Brass, Nickel | Brass, Nickel |
| Coupling Nut Plating Specification | 100 µin minimum | 100 µin minimum |
| Hex Size | 5/16 inch | 5/16 inch |
| Torque | 3 in-lbs [0.34 Nm] | 3 in-lbs [0.34 Nm] |

Mechanical Specification Notes:

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

Environmental Specifications

Temperature

Operating Range

-40 to +85 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:

PE3W06660

- **xx**

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

Example: PE3W06660-12 = 12 inches long cable
PE3W06660-100cm = 100 cm long cable

SMA Male Right Angle to SMA Male Cable 50 cm Length Using RG316-DS 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.

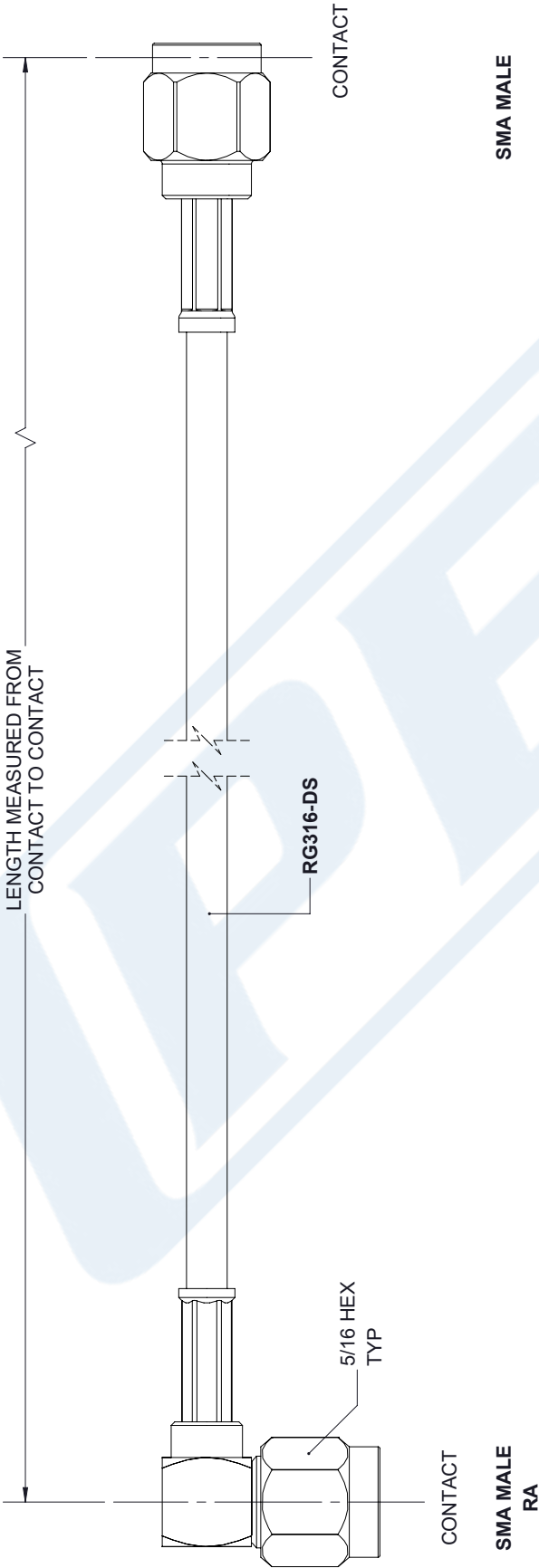
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMA Male Cable 50 cm Length Using RG316-DS Coax PE3W06660-50CM](https://www.pasternack.com/sma-male-sma-male-rg316-ds-cable-assembly-pe3w06660-50cm-p.aspx)

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PE3W06660-50CM CAD Drawing
SMA Male Right Angle to SMA Male Cable 50 cm Length Using RG316-DS Coax

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



| | | | | | | | |
|--|--|--|--|--|--|--|--|
| UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | |  an INFINITO brand | | Pastermack Enterprises, Inc. P.O.Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 www.pasternack.com e-mail: sales@pasternack.com | | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED. | |
| TOLERANCES: | | X±.2 2 [5.08] | | FRACTIONS | | SHEET 1 OF 1 | |
| | | XX±.3 .01 [25] | | + / -132 | | SCALE | |
| | | XXX±.3 .005 [13] | | ANGLES ± 1° | | N/A | |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY. | | | | | | | |
| THIRD-ANGLE PROJECTION | |  | | SIZE CAGE DRAWN BY PART NUMBER | | REV | |
| | | A 53919 K.DANG | | PE3W06660 | | A | |

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