

SMA Male to SMA Male Cable Using RG316-DS Coax with HeatShrink



RF Cable Assemblies Technical Data Sheet

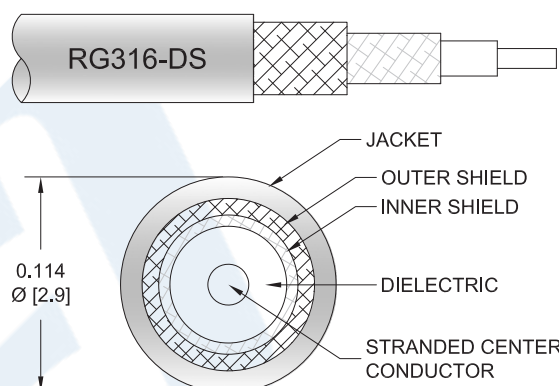
PE3W06557/HS

Configuration

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

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 85 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06557/HS SMA male to SMA male 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 PE3W06557/HS SMA male to SMA male cable assembly operates to 3 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 85 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: [SMA Male to SMA Male Cable Using RG316-DS Coax with HeatShrink PE3W06557/HS](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------------|---------|---------------|---------|-----------------|
| Frequency Range | DC | | 3 | GHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69.5 | | % |
| RF Shielding | 85 | | | dB |
| Capacitance | | 28.96 [95.01] | | pF/ft [pF/m] |
| DC Resistance Inner Conductor | | 83.82 [275] | | Ω/1000ft [Ω/Km] |
| DC Resistance Outer Conductor | | 5.33 [17.49] | | Ω/1000ft [Ω/Km] |
| Operating Voltage (AC) | | | 335 | Vrms |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 3 | GHz |
| Insertion Loss (Typ.) | 0.109 | 0.159 | 0.237 | 0.379 | 0.579 | dB/ft |
| | 0.36 | 0.52 | 0.78 | 1.24 | 1.9 | dB/m |

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.039 lbs [17.69 g]

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]

One Time Minimum Bend Radius 0.59 in [14.99 mm]
Repeated Minimum Bend Radius 1.57 in [39.88 mm]

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|--------------------|--------------------|
| Type | SMA Male | 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 | 30 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 | 16-May inch | 16-May inch |
| Torque | 3 in-lbs [0.34 Nm] | 3 in-lbs [0.34 Nm] |

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:

PE3W06557/HS

- **xx**

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

Example: PE3W06557/HS-12 = 12 inches long cable
PE3W06557/HS-100cm = 100 cm long cable

SMA Male to SMA Male Cable Using RG316-DS 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: [SMA Male to SMA Male Cable Using RG316-DS Coax with HeatShrink PE3W06557/HS](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-rg316-ds-with-heatshrink-pe3w06557-hs-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.

PE3W06557/HS CAD Drawing
SMA Male to SMA Male Cable Using RG316-DS Coax with HeatShrink

