

## SMA Male Right Angle to TNC Female Bulkhead Cable Using RG316-DS Coax with HeatShrink

### PE38215/HS



#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: TNC Female Bulkhead
- Cable Type: RG316-DS
- Coax Flex Type: Flexible

#### Features

- Max Frequency 1 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE38215/HS SMA male right angle to TNC female bulkhead 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 TNC cable assembly has a male to female gender configuration with 50 ohm flexible RG316-DS coax. The PE38215/HS SMA male to TNC female cable assembly operates to 1 GHz. The right angle SMA interface on the RG316-DS cable allows for easier connections in tight spaces. Our RF cable assembly with TNC 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. 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		1,000	MHz
VSWR		1.4:1		
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	400	500	1000	MHz	
PE38215/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.13	0.175	0.194	0.29	dB/ft	
			0.27	0.42	0.58	0.64	0.96	dB/m	
PE38215/HS-6	6 inch	Insertion Loss (Typ.)	0.35	0.37	0.39	0.4	0.45	dB	0.065
PE38215/HS-12	12 inch	Insertion Loss (Typ.)	0.39	0.43	0.48	0.5	0.59	dB	0.072
PE38215/HS-24	24 inch	Insertion Loss (Typ.)	0.47	0.56	0.65	0.69	0.88	dB	0.087
PE38215/HS-36	36 inch	Insertion Loss (Typ.)	0.55	0.69	0.83	0.89	1.17	dB	0.101
PE38215/HS-48	48 inch	Insertion Loss (Typ.)	0.63	0.82	1	1.08	1.46	dB	0.115

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:	0.072 pounds
Additional Weight per Inch:	0.00117 pounds

## Mechanical Specifications

### Cable Assembly

Weight	0.072 lbs [32.66 g]
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### 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	0.591 in [15.01 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	TNC Female Bulkhead
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	30 µin minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin 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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### PE38215/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE38215/HS**    **- xx**    **uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches

Length  
Base Number

Example:    PE38215/HS-12 = 12 inches long cable  
              PE38215/HS-100cm = 100 cm long cable

SMA Male Right Angle to TNC Female Bulkhead 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 Right Angle to TNC Female Bulkhead Cable Using RG316-DS Coax with HeatShrink PE38215/HS](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-tnc-female-bulkhead-cable-using-rg316-ds-with-heatshrink-pe38215-hs-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

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