

## SMC Plug to SMC Plug Right Angle Cable Using RG174 Coax with HeatShrink, LF Solder

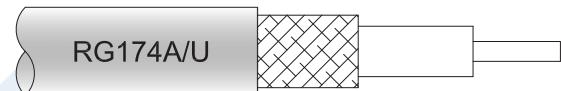


### RF Cable Assemblies Technical Data Sheet

**PE33556LF/HS**

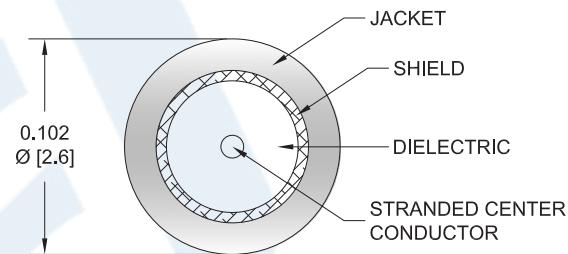
#### Configuration

- Connector 1: SMC Plug
- Connector 2: SMC Plug Right Angle
- Cable Type: RG174



#### Features

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



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE33556LF/HS SMC plug to SMC plug right angle 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 SMC to SMC cable assembly has a plug to plug gender configuration with 50 ohm flexible RG174 coax. The PE33556LF/HS SMC plug to SMC plug cable assembly operates to 1 GHz. The right angle SMC 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMC Plug to SMC Plug Right Angle Cable Using RG174 Coax with HeatShrink, LF Solder PE33556LF/HS](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Typ.)	0.066	0.084	0.137	0.211	0.32	dB/ft
	0.22	0.28	0.45	0.69	1.05	dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the SMC plug straight and 0.2 dB for the SMC plug right angle connector.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.032 lbs [14.51 g]

##### Cable

Cable Type	RG174
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel
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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**PE33556LF/HS**

### Connectors

Description	Connector 1	Connector 2
Type	SMC Plug	SMC Plug Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 $\mu$ in minimum	30 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 $\mu$ in minimum	100 $\mu$ in minimum
Hex Size	1/4 inch	1/4 inch
Torque		3 in-lbs [0.34 Nm]

### Environmental Specifications

#### Temperature

Operating Range

-40 to +80 deg C

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

### Plotted and Other Data

Notes:

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**RF Cable Assemblies Technical Data Sheet**

**PE33556LF/HS**

**How to Order**

Part Number Configuration:

**PE33556LF/HS - xx**

**uu**

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

Example: PE33556LF/HS-12 = 12 inches long cable  
PE33556LF/HS-100cm = 100 cm long cable

SMC Plug to SMC Plug Right Angle Cable Using RG174 Coax with HeatShrink, LF Solder 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.

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URL: <https://www.pasternack.com/smc-plug-to-smc-plug-cable-using-rg174-with-heatshrink-lf-solder-pe33556lf-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.

# PE33556LF/HS CAD Drawing

SMC Plug to SMC Plug Right Angle Cable Using RG174 Coax with HeatShrink, LF Solder

