



**SMB Plug Right Angle to SMA Male Right Angle Cable  
50 cm Length Using LMR-195 Coax with HeatShrink**

**RF Cable Assemblies Technical Data Sheet**

**PE3W06735/HS-50CM**

**Configuration**

- Connector 1: SMB Plug Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-195

**Features**

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket

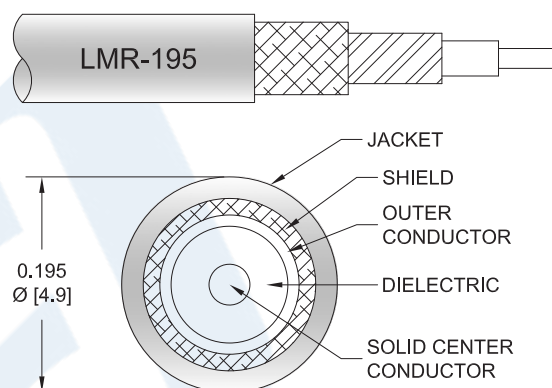
**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W06735/HS-50CM SMB plug right angle to SMA male right angle 50 cm cable using LMR-195 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 SMB to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3W06735/HS-50CM SMB plug to SMA male cable assembly operates to 4 GHz. The right angle SMB and right angle SMA interfaces on the LMR-195 cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 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: [SMB Plug Right Angle to SMA Male Right Angle Cable 50 cm Length Using LMR-195 Coax with HeatShrink PE3W06735/HS-50CM](#)



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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor Km]		7.6 [24.93]		Ohms/1000ft [Ohms/
DC Resistance Outer Conductor Km]		4.9 [16.08]		Ohms/1000ft [Ohms/
Jacket Spark			3,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	4	GHz
Insertion Loss (Max.)	0.5	0.54	0.59	0.72	0.74	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.4dB of connectro loss.

#### Mechanical Specifications

##### Cable Assembly

Length*	19.68 in [499.87 mm]
Diameter	0.315 in [8 mm]

##### Cable

Cable Type	LMR-195
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid

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Jacket Material	PE, Black
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

#### Connectors

Description	Connector 1	Connector 2
Type	SMB Plug Right Angle	SMA Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	50 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
Coupling Nut Plating Specification		100 µin minimum
Hex Size		5/16 inch
Torque		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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## SMB Plug Right Angle to SMA Male Right Angle Cable 50 cm Length Using LMR-195 Coax with HeatShrink

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PE3W06735/HS-50CM

#### How to Order

Part Number Configuration:

**PE3W06735/HS**

**- xx**

**uu**

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

Example: PE3W06735/HS-12 = 12 inches long cable  
PE3W06735/HS-100cm = 100 cm long cable

SMB Plug Right Angle to SMA Male Right Angle Cable 50 cm Length Using LMR-195 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.

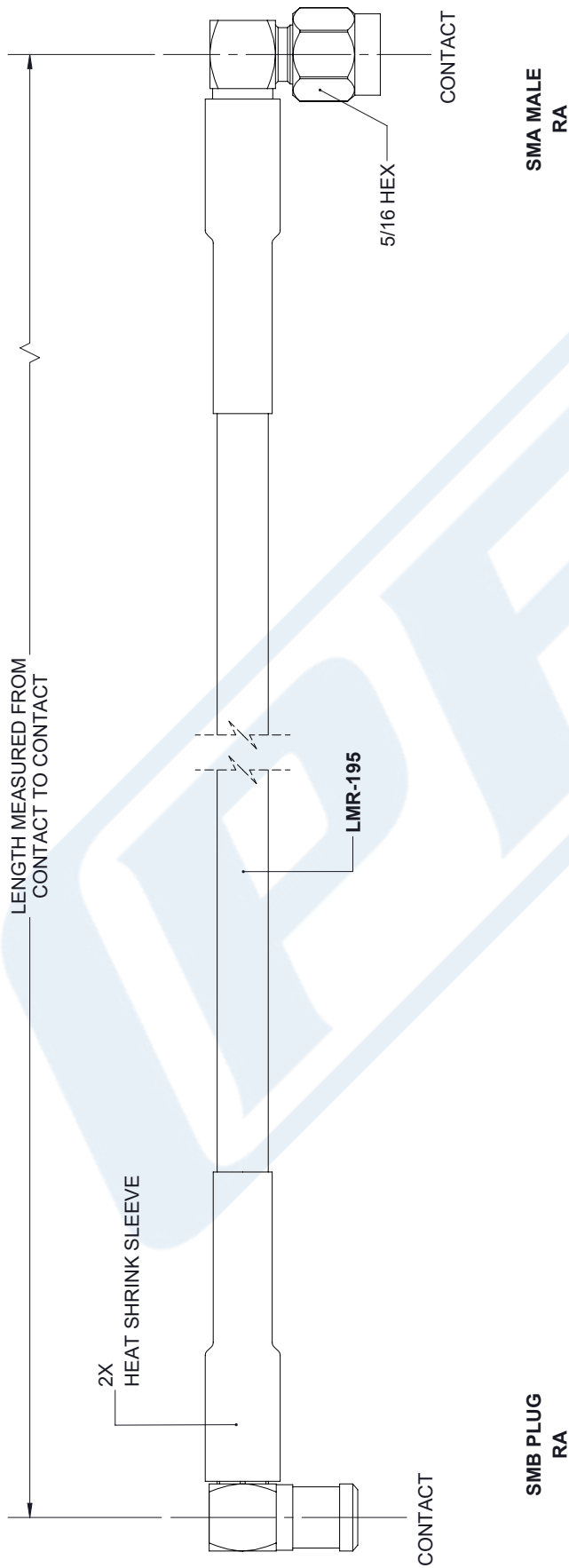
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMB Plug Right Angle to SMA Male Right Angle Cable 50 cm Length Using LMR-195 Coax with HeatShrink PE3W06735/HS-50CM](https://www.pasternack.com/smb-plug-sma-male-lmr195-cable-assembly-pe3w06735-hs-50cm-p.aspx)

URL: <https://www.pasternack.com/smb-plug-sma-male-lmr195-cable-assembly-pe3w06735-hs-50cm-p.aspx>

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**PE3W06735/HS-50CM CAD Drawing**  
SMB Plug Right Angle to SMA Male Right Angle Cable 50 cm  
Length Using LMR-195 Coax with HeatShrink

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



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

<b>PE PASTERNAK</b> an INFINITO brand	
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SIZE	CAGE
A	53919
DRAWN BY	K.DANG
PART NUMBER	PE3W06735/HS
REV	A

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SHEET	1 OF 1
SCALE	N/A

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