

SSMB Plug to SMA Male Cable Using RG174 Coax with HeatShrink

PE3W10593/HS

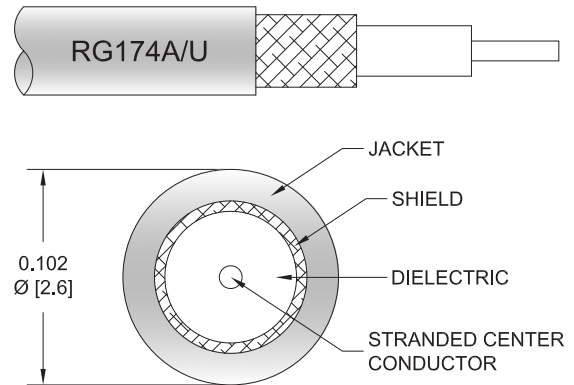


Configuration

- Connector 1: SSMB Plug
- Connector 2: SMA Male
- Cable Type: RG174
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10593/HS SSMB plug to SMA male 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 SSMB to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible RG174 coax. The PE3W10593/HS SSMB plug to SMA male cable assembly operates to 1 GHz.

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		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

Specifications by Frequency

SSMB Plug to SMA Male Cable Using RG174 Coax with HeatShrink



PE3W10593/HS

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	100	250	500	1000	MHz	
PE3W10593/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.084	0.137	0.211	0.32	dB/ft	
			0.28	0.45	0.7	1.05	dB/m	
PE3W10593/HS-12	12 Inch	Insertion Loss (Typ.)	0.44	0.49	0.57	0.67	dB	0.027
PE3W10593/HS-24	24 Inch	Insertion Loss (Typ.)	0.52	0.63	0.78	0.99	dB	0.036
PE3W10593/HS-36	36 Inch	Insertion Loss (Typ.)	0.61	0.77	0.99	1.31	dB	0.045
PE3W10593/HS-48	48 Inch	Insertion Loss (Typ.)	0.69	0.9	1.2	1.63	dB	0.054
PE3W10593/HS-72	72 Inch	Insertion Loss (Typ.)	0.86	1.18	1.62	2.27	dB	0.072

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:	0.1 dB
Loss due to Connector 2:	0.25 dB
Base Weight:	0.027 pounds
Additional Weight per Inch:	0.07833 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.027 lbs [12.25 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]

SSMB Plug to SMA Male Cable Using RG174 Coax with HeatShrink



PE3W10593/HS

Connectors

Description	Connector 1	Connector 2
Type	SSMB Plug	SMA Male
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	15 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Outer Conductor Plating Specification	30 µin minimum	
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification	30 µin minimum	200 µin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		200 µin minimum

Environmental Specifications

Operating Range Temperature -40 to +80 deg C

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

Plotted and Other Data

Notes:

SSMB Plug to SMA Male Cable Using RG174 Coax with HeatShrink



PE3W10593/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W10593/HS

- xx

uu

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

Length

Base Number

Example: PE3W10593/HS-12 = 12 inches long cable
PE3W10593/HS-100cm = 100 cm long cable

SSMB Plug to SMA Male Cable Using RG174 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: [SSMB Plug to SMA Male Cable Using RG174 Coax with HeatShrink PE3W10593/HS](#)

URL: <https://www.pasternack.com/ssmb-plug-to-sma-male-cable-using-rg174-with-heatshrink-pe3w10593-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.

PE3W10593/HS CAD Drawing
SSMB Plug to SMA Male Cable Using RG174 Coax with HeatShrink

