



RF Cable Assemblies Technical Data Sheet

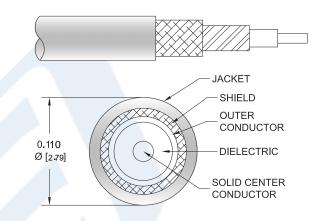
PE3W05693/HS

Configuration

- · Connector 1: Push-OnSMP Female Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-100A

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- · Double Shielded
- PVC Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3W05693/HS SMP female push-on right angle to SMA male right angle cable using LMR-100 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 SMP to SMA cable assembly has a female to male gender configuration with 50 ohm flexible LMR-100A coax. The PE3W05693/HS SMP female to SMA male cable assembly operates to 3 GHz. The right angle SMP and right angle SMA interfaces on the LMR-100A 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: Push-On SMP Female Right Angle to SMA Male Right Angle Cable Using LMR-100 Coax with HeatShrink PE3W05693/HS

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		/ //	1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ohms/1000ft [Ohms/
Km]				
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/
Km]				
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	3	GHz
Insertion Loss (Max.)	0.12 0.39	0.17 0.56	0.24 0.79	0.4 1.31	0.44 1.44	dB/ft dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.4dB of connector loss.

Mechanical Specifications

Cable Assembly

Diameter 0.315 in [8 mm]

Cable

Cable TypeLMR-100AImpedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type PE
Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

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Jacket MaterialPVC, BlackJacket Diameter0.11 in [2.79 mm]

One Time Minimum Bend Radius

Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

0.1 lbs-ft [0.14 N-m]

Flat Plate Crush

10 lbs/in [0.18 Kg/mm]

Tensile Strength

15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2	
Туре	SMP Female Right Angle	SMA Male Right Angle	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Connection Method	Push-On		
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification	30μ in. minimum	50 μin minimum	
Dielectric Type	Teflon	PTFE	
Outer Conductor Material and Plating	Beryllium Copper, Gold		
Outer Conductor Plating Specification	3μ in. minimum		
Body Material and Plating	Brass, Gold	Brass, Nickel	
Body Plating Specification	3μ in. 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:

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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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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How to Order



Example: PE3W05693/HS-12 = 12 inches long cable PE3W05693/HS-100cm = 100 cm long cable

Push-On SMP Female Right Angle to SMA Male Right Angle Cable Using LMR-100 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.

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URL: https://www.pasternack.com/smp-female-sma-male-lmr100-cable-assembly-pe3w05693-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.

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PE3W05693/HS CAD DrawingPush-On SMP Female Right Angle to SMA Male Right Angle Cable Using LMR-100 Coax with HeatShrink

