

SMA Male Right Angle to SMB Jack Bulkhead Low Loss Cable Using LMR-100A-UF Coax

PE3W17701

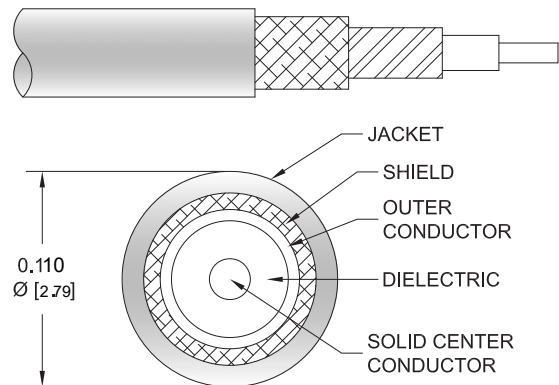


Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMB Jack Bulkhead
- Cable Type: LMR-100A-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- TPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W17701 SMA male right angle to SMB jack bulkhead cable using LMR-100A-UF 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 SMB cable assembly has a male to jack gender configuration with 50 ohm flexible LMR-100A-UF coax. The PE3W17701 SMA male to SMB jack cable assembly operates to 4 GHz. The right angle SMA interface on the LMR-100A-UF cable allows for easier connections in tight spaces. Our RF cable assembly with SMB 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 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	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]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	4000	MHz	
PE3W17701	Custom Lengths Available	Insertion Loss (Typ.)	0.07	0.158	0.165	0.24	0.502	dB/ft	
			0.23	0.52	0.55	0.79	1.65	dB/m	
PE3W17701-24	24 In	Insertion Loss (Typ.)	0.44	0.62	0.63	0.78	1.31	dB	0.038
PE3W17701-36	36 In	Insertion Loss (Typ.)	0.51	0.78	0.8	1.02	1.81	dB	0.046
PE3W17701-48	48 In	Insertion Loss (Typ.)	0.58	0.94	0.96	1.26	2.31	dB	0.054
PE3W17701-100CM	100 CM	Insertion Loss (Typ.)	0.53	0.82	0.85	1.09	1.95	dB	0.048
PE3W17701-200CM	200 CM	Insertion Loss (Typ.)	0.76	1.34	1.39	1.88	3.6	dB	0.074

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: 0.2 dB

Base Weight: 0.029 pounds

Additional Weight per Inch: 0.00075 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.029 lbs [13.15 g]

Cable

Cable Type	LMR-100A-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper
Jacket Material	TPE, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
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]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMB Jack 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	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	

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

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Typical Performance Data

How to Order

Part Number Configuration: **PE3W17701 - xx uu**

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

Example: PE3W17701-12 = 12 inches long cable
PE3W17701-100cm = 100 cm long cable

SMA Male Right Angle to SMB Jack Bulkhead Low Loss Cable Using LMR-100A-UF Coax 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 SMB Jack Bulkhead Low Loss Cable Using LMR-100A-UF Coax PE3W17701](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-smb-jack-bulkhead-low-loss-cable-using-lmr-100a-uf-pe3w17701-p.aspx>

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PE3W17701 CAD Drawing
SMA Male Right Angle to SMB Jack Bulkhead Low Loss Cable Using LMR-100A-UF Coax

