

SMA Male to SMA Male Right Angle Low Loss Cable Using LMR-LW400 Coax



PE3W19219

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: LMR-LW400
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W19219 SMA male to SMA male right angle cable using LMR-LW400 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-LW400 coax. The PE3W19219 SMA male to SMA male cable assembly operates to 6 GHz. The right angle SMA interface on the LMR-LW400 cable allows 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		6.1 [20.01]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W19219	Custom Lengths Available	Insertion Loss (Typ.)	0.019	0.022	0.041	0.068	0.11	dB/ft	
			0.07	0.08	0.14	0.23	0.37	dB/m	
PE3W19219-12	12 inch	Insertion Loss (Typ.)	0.32	0.33	0.35	0.37	0.41	dB	0.167
PE3W19219-36	36 inch	Insertion Loss (Typ.)	0.36	0.37	0.43	0.51	0.63	dB	0.268
PE3W19219-60	60 inch	Insertion Loss (Typ.)	0.4	0.41	0.51	0.64	0.85	dB	0.368
PE3W19219-120	120 inch	Insertion Loss (Typ.)	0.49	0.52	0.71	0.98	1.4	dB	0.618
PE3W19219-300	300 inch	Insertion Loss (Typ.)	0.78	0.85	1.33	2	3.05	dB	1.368

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:	0.167 pounds
Additional Weight per Inch:	0.00417 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.167 lbs [75.75 g]

Cable

Cable Type	LMR-LW400
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	Foam PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Aluminum
Jacket Material	PE, Black
Jacket Diameter	0.405 in [10.29 mm]
One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.5 lbs-ft [0.68 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	160 lbs [72.57 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Tri-metal
Coupling Nut Material and Plating	Brass, Gold	
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	
Seal Gasket Material		Silicone

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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PE3W19219

Typical Performance Data

How to Order

Part Number Configuration:

PE3W19219

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

Example: PE3W19219-12 = 12 inches long cable
PE3W19219-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Low Loss Cable Using LMR-LW400 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 to SMA Male Right Angle Low Loss Cable Using LMR-LW400 Coax PE3W19219](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-low-loss-cable-using-lmr-lw400-pe3w19219-p.aspx>

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PE3W19219 CAD Drawing

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