

SMA Male to MMCX Plug Cable Using PE-SR405FLJ Coax



PE3W11559

Configuration

- Connector 1: SMA Male
- Connector 2: MMCX Plug
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W11559 SMA male to MMCX plug cable using PE-SR405FLJ coax is part of our full line of RF components available for same-day shipping. Pasternack's formable RF cable assemblies provide an alternative to costly pre-formed semi-rigid assemblies since they are hand formable. This Pasternack SMA to MMCX cable assembly has a male to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W11559 SMA male to MMCX plug cable assembly operates to 6 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			250	500	1000	2500	6000	MHz	
PE3W11559	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.23	0.346	0.549	0.601	dB/ft	
			0.5	0.74	1.14	1.81	1.98	dB/m	
PE3W11559-6	6 inch	Insertion Loss (Typ.)	0.28	0.32	0.38	0.48	0.51	dB	0.021
PE3W11559-9	9 inch	Insertion Loss (Typ.)	0.32	0.37	0.46	0.62	0.66	dB	0.025
PE3W11559-12	12 inch	Insertion Loss (Typ.)	0.35	0.43	0.55	0.75	0.81	dB	0.028
PE3W11559-18	18 inch	Insertion Loss (Typ.)	0.43	0.54	0.72	1.03	1.11	dB	0.036
PE3W11559-24	24 inch	Insertion Loss (Typ.)	0.5	0.65	0.9	1.3	1.41	dB	0.043

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:	0.1 dB
Base Weight:	0.028 pounds
Additional Weight per Inch:	0.00117 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.028 lbs [12.7 g]

Cable

Cable Type	PE-SR405FLJ
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor 1 Material and Plating	Tinned Copper Composite Braid
Jacket Material	FEP, Black
Jacket Diameter	0.105 in [2.67 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	0.787 in [19.99 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	MMCX Plug
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50µin. minimum	
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	3µin. minimum	
Coupling Nut Material and Plating	Brass, Gold	
Coupling Nut Plating Specification	3µin. minimum	
Hex Size	5/16 Inch	
Torque	3 in-lbs 0.34 Nm	

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3W11559

Typical Performance Data

How to Order

Part Number Configuration: **PE3W11559** **- xx** **uu**

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

Length

Base Number

Example: PE3W11559-12 = 12 inches long cable
PE3W11559-100cm = 100 cm long cable

SMA Male to MMCX Plug Cable Using PE-SR405FLJ 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 MMCX Plug Cable Using PE-SR405FLJ Coax PE3W11559](https://www.pasternack.com/sma-male-to-mmcx-plug-cable-using-pe-sr405flj-pe3w11559-p.aspx)

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PE3W11559 CAD Drawing
SMA Male to MMCX Plug Cable Using PE-SR405FLJ Coax

