

SMA Male Right Angle to Mini SMP Female Right Angle Cable Using PE-SR405FLJ Coax

PE3W04819

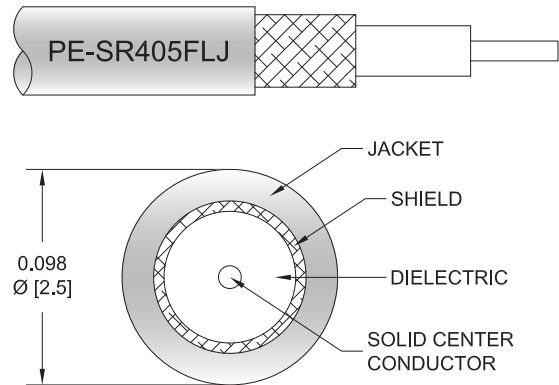


Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: Mini SMP Female Right Angle
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04819 SMA male right angle to Mini SMP female right angle 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 Mini SMP cable assembly has a male to female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W04819 SMA male to Mini SMP female cable assembly operates to 10 GHz. The right angle SMA and right angle Mini SMP interfaces on the PE-SR405FLJ cable allow for easier connections in tight spaces.

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		10	
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]
Operating Voltage (AC)			325	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	10000	MHz	
PE3W04819	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.22	0.34	0.54	0.81	dB/ft	
			0.5	0.73	1.12	1.78	2.66	dB/m	
PE3W04819-6	6 inch	Insertion Loss (Typ.)	0.32	0.36	0.45	0.59	0.77	dB	0.029
PE3W04819-9	9 inch	Insertion Loss (Typ.)	0.35	0.42	0.54	0.72	0.97	dB	0.033
PE3W04819-12	12 inch	Insertion Loss (Typ.)	0.39	0.47	0.62	0.86	1.17	dB	0.036
PE3W04819-18	18 inch	Insertion Loss (Typ.)	0.47	0.58	0.79	1.13	1.58	dB	0.044
PE3W04819-24	24 inch	Insertion Loss (Typ.)	0.54	0.69	0.96	1.4	1.98	dB	0.051

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: 0.2 dB
 Loss due to Connector 2: $0.05 \times \sqrt{f(\text{GHz})}$ dB
 Base Weight: 0.036 pounds
 Additional Weight per Inch: 0.00117 pounds

Mechanical Specifications

Cable Assembly

Weight 0.036 lbs [16.33 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 Right Angle	Mini SMP Female Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper, Gold
Body Material and Plating	Stainless Steel, Gold	Brass, Gold
Body Plating Specification	30 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 -55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3W04819

Typical Performance Data

How to Order

Part Number Configuration:

PE3W04819

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W04819-12 = 12 inches long cable
PE3W04819-100cm = 100 cm long cable

SMA Male Right Angle to Mini SMP Female Right Angle 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 Right Angle to Mini SMP Female Right Angle Cable Using PE-SR405FLJ Coax PE3W04819](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-mini-smp-female-cable-using-pe-sr405flj-pe3w04819-p.aspx>

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PE3W04819 CAD Drawing
SMA Male Right Angle to Mini SMP Female Right Angle Cable Using PE-SR405FLJ Coax

