

Mini SMP Female to 1.85mm Male Cable Using PE-SR405FLJ Coax

PE3W05411



Configuration

- Connector 1: Mini SMP Female
- Connector 2: 1.85mm Male
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 26.5 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W05411 Mini SMP female to 1.85mm male 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 Mini SMP to 1.85mm cable assembly has a female to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W05411 Mini SMP female to 1.85mm male cable assembly operates to 26.5 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		26.5	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)
		Frequency	1000	2000	4500	9000	26500	MHz	
PE3W05411	Custom Lengths Available	Insertion Loss (Typ.)	0.225	0.306	0.509	0.759	1.59	dB/ft	
			0.74	1.01	1.67	2.5	5.22	dB/m	
PE3W05411-6	6 inch	Insertion Loss (Typ.)	0.27	0.33	0.47	0.63	1.16	dB	0.02
PE3W05411-9	9 inch	Insertion Loss (Typ.)	0.32	0.41	0.59	0.82	1.55	dB	0.024
PE3W05411-12	12 inch	Insertion Loss (Typ.)	0.38	0.48	0.72	1.01	1.95	dB	0.027
PE3W05411-18	18 inch	Insertion Loss (Typ.)	0.49	0.63	0.97	1.39	2.75	dB	0.035
PE3W05411-24	24 inch	Insertion Loss (Typ.)	0.6	0.79	1.23	1.77	3.54	dB	0.042

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: 0.05*SQRT(FGHz) dB
 Base Weight: 0.027 pounds
 Additional Weight per Inch: 0.00117 pounds

Mechanical Specifications

Cable Assembly

Weight 0.027 lbs [12.25 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	Mini SMP Female	1.85mm Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	
Body Material and Plating	Beryllium Copper, Gold	Stainless Steel, Gold over Nickel
Body Plating Specification	MIL-G-45204	MIL-G-45204
Coupling Nut Material and Plating		Passivated Stainless Steel
Coupling Nut Plating Specification		ASTM-A380
Hex Size		1/4 inch
Torque		8 in-lbs 0.9 Nm

Environmental Specifications

Operating Range Temperature -55 to +100 deg C

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

Plotted and Other Data

Notes:

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PE3W05411

Typical Performance Data

How to Order

Part Number Configuration:

PE3W05411

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

Length

Base Number

Example: PE3W05411-12 = 12 inches long cable
PE3W05411-100cm = 100 cm long cable

Mini SMP Female to 1.85mm Male 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: [Mini SMP Female to 1.85mm Male Cable Using PE-SR405FLJ Coax PE3W05411](#)

URL: <https://www.pasternack.com/mini-smp-female-to-1.85mm-male-cable-using-pe-sr405flj-pe3w05411-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W05411 CAD Drawing
Mini SMP Female to 1.85mm Male Cable Using PE-SR405FLJ Coax

