

Mini SMP Female to Limited Detent SMP Male Bulkhead Cable Using PE-SR405FLJ Coax, LF Solder



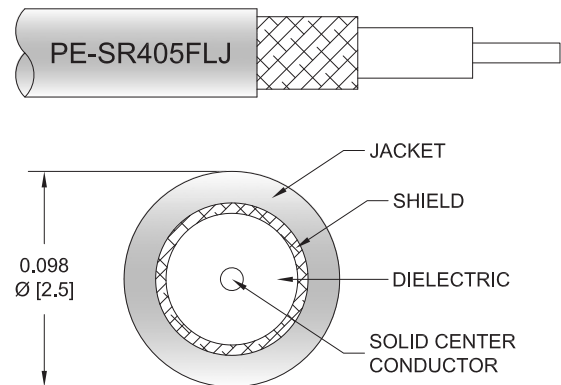
PE3W11514LF

Configuration

- Connector 1: Mini SMP Female
- Connector 2: Limited Detent SMP Male Bulkhead
- Cable Type: PE-SR405FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 20 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W11514LF Mini SMP female to SMP male limited detent bulkhead 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 SMP cable assembly has a female to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W11514LF Mini SMP female to SMP male cable assembly operates to 20 GHz. Our RF cable assembly with SMP 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.

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		20	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	20000	MHz	
PE3W11514LF	Custom Lengths Available	Insertion Loss (Typ.)	0.22	0.3	0.5	0.75	1.2	dB/ft	
			0.73	0.99	1.65	2.47	3.94	dB/m	
PE3W11514LF-6	6 inch	Insertion Loss (Typ.)	0.26	0.33	0.46	0.63	0.93	dB	0.017
PE3W11514LF-9	9 inch	Insertion Loss (Typ.)	0.32	0.4	0.59	0.82	1.23	dB	0.021
PE3W11514LF-12	12 inch	Insertion Loss (Typ.)	0.37	0.48	0.71	1	1.53	dB	0.024
PE3W11514LF-18	18 inch	Insertion Loss (Typ.)	0.48	0.63	0.96	1.38	2.13	dB	0.032
PE3W11514LF-24	24 inch	Insertion Loss (Typ.)	0.59	0.78	1.21	1.75	2.73	dB	0.039

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 x sqrt(fGHz) dB
 Base Weight: 0.024 pounds
 Additional Weight per Inch: 0.00117 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.024 lbs [10.89 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	SMP Male Bulkhead
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method		Limited Detent
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold
Body Plating Specification	MIL-G-45204	

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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PE3W11514LF

Typical Performance Data

How to Order

Part Number Configuration: **PE3W11514LF - xx uu**

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

Example: PE3W11514LF-12 = 12 inches long cable
PE3W11514LF-100cm = 100 cm long cable

Mini SMP Female to Limited Detent SMP Male Bulkhead Cable Using PE-SR405FLJ Coax, LF Solder 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 Limited Detent SMP Male Bulkhead Cable Using PE-SR405FLJ Coax, LF Solder PE3W11514LF](#)

URL: <https://www.pasternack.com/mini-smp-female-to-limited-detent-smp-male-bulkhead-cable-using-pe-sr405flj-lf-solder-pe3w11514lf-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.

PE3W11514LF CAD Drawing

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