

Mini SMP Female to BNC Male Cable Using
PE-SR405FL Coax , LF Solder



RF Cable Assemblies Technical Data Sheet

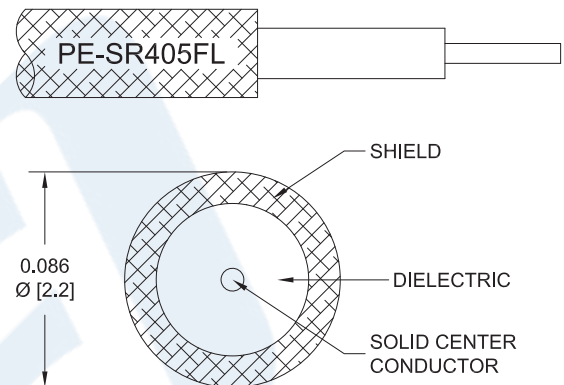
PE3W01810LF

Configuration

- Connector 1: Mini SMP Female
- Connector 2: BNC Male
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

Features

- Max Frequency 4 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W01810LF Mini SMP female to BNC male cable using PE-SR405FL 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 BNC cable assembly has a female to male gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W01810LF Mini SMP female to BNC male cable assembly operates to 4 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.

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 BNC Male Cable Using PE-SR405FL Coax , LF Solder PE3W01810LF](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω /1000ft [Ω /Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.15	0.162	0.183	0.225	0.498	dB/ft
	0.49	0.53	0.6	0.74	1.63	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.04 lbs [18.14 g]

Cable

Cable Type PE-SR405FL
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Shield Layer 1 Tinned Copper Braid

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Connectors

Description	Connector 1	Connector 2
Type	Mini SMP Female	BNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification		30μ in. minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold
Body Plating Specification		3μ in. minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100μ in. minimum

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W01810LF

- **xx**

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

Example: PE3W01810LF-12 = 12 inches long cable
PE3W01810LF-100cm = 100 cm long cable

Mini SMP Female to BNC Male Cable Using PE-SR405FL 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.

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URL: <https://www.pasternack.com/mini-smp-female-to-bnc-male-cable-using-pe-sr405fl-lf-solder-pe3w01810lf-p.aspx>

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

PE3W01810LF CAD Drawing

Mini SMP Female to BNC Male Cable Using PE-SR405FL Coax , LF Solder

