



SMP Female Right Angle to MCX Plug Right Angle Cable
Using PE-SR405FLJ Coax , LF Solder in 50CM

RF Cable Assemblies Technical Data Sheet

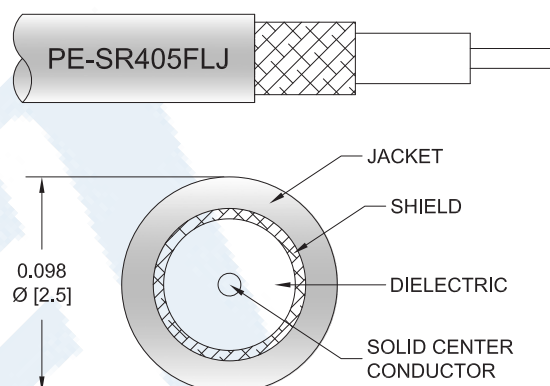
PE3C0645LF-50CM

Configuration

- Connector 1: SMP Female Right Angle
- Connector 2: MCX Plug Right Angle
- Cable Type: PE-SR405FLJ

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0645LF-50CM SMP female right angle to MCX plug right angle 19.685 inch 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 SMP to MCX cable assembly has a female to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3C0645LF-50CM SMP female to MCX plug cable assembly operates to 6 GHz. The right angle SMP and right angle MCX 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female Right Angle to MCX Plug Right Angle Cable Using PE-SR405FLJ Coax , LF Solder in 50CM PE3C0645LF-50CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
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]		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	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.27	0.3	0.67	0.93	1.77	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 x SQRT(FGHz)dB for the female connector and 0.2 dB for the male connector.

Mechanical Specifications

Cable Assembly

Length* 19.685 in [500 mm]

Weight 0.016 lbs [7.26 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 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	SMP Female Right Angle	MCX Plug Right Angle
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold over Nickel
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold over Nickel

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C0645LF

- **xx**

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

Example: PE3C0645LF-12 = 12 inches long cable
PE3C0645LF-100cm = 100 cm long cable

SMP Female Right Angle to MCX Plug Right Angle Cable Using PE-SR405FLJ Coax , LF Solder in 50CM 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/smp-female-right-angle-to-mcx-plug-right-angle-cable-using-pe-sr405flj-lf-solder-pe3c0645lf-50CM-p.aspx](https://www.pasternack.com/smp-female-right-angle-to-mcx-plug-right-angle-cable-using-pe-sr405flj-lf-solder-pe3c0645lf-50cm-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.

PE3C0645LF-50CM CAD Drawing

SMP Female Right Angle to MCX Plug Right Angle Cable

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