



SMC Plug Right Angle to SMC Plug Cable 18 Inch Using PE-SR405FLJ Coax

RF Cable Assemblies Technical Data Sheet

PE3W08322-18

Configuration

- Connector 1: SMC Plug Right Angle
- Connector 2: SMC Plug
- Cable Type: PE-SR405FLJ

Features

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

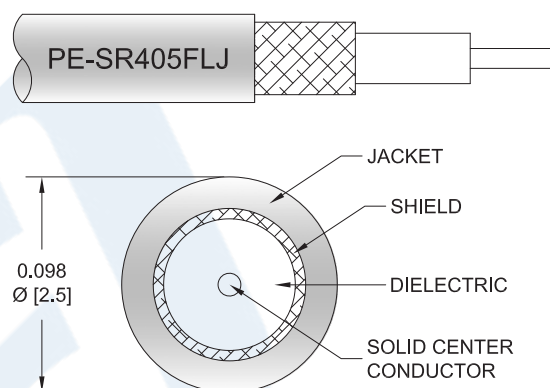
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W08322-18 SMC plug right angle to SMC plug 18 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 SMC to SMC cable assembly has a plug to plug gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W08322-18 SMC plug to SMC plug cable assembly operates to 10 GHz. The right angle SMC interface on the PE-SR405FLJ cable allows 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: [SMC Plug Right Angle to SMC Plug Cable 18 Inch Using PE-SR405FLJ Coax PE3W08322-18](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.5:1	
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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	10	GHz
Insertion Loss (Max.)	0.52	0.67	0.92	1.31	1.82	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss is estimated as 0.2 dB per SMC plug right angle connector and 0.125*SQRT(FGHz) dB per SMC plug connector.

Mechanical Specifications

Cable Assembly

Length*	18 in [457.2 mm]
Diameter	0.25 in [6.35 mm]

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]

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Repeated Minimum Bend Radius 0.787 in [19.99 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMC Plug Right Angle	SMC Plug
Specification	MIL-C-39012	
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	MIL-G-45204	1.3 µm minimum
Dielectric Type	Teflon	PTFE
Outer Conductor Material and Plating	Brass, Gold	Brass, Gold over Nickel
Outer Conductor Plating Specification	MIL-G-45206	0.2 µm minimum
Body Material and Plating	Brass, Gold	Brass, Gold over Nickel
Body Plating Specification	MIL-G-45204	0.2 µm minimum
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold over Nickel
Coupling Nut Plating Specification	MIL-G-45204	0.2 µm minimum
Hex Size	1/4 in.	
Torque	3 in-lbs [0.34 Nm]	

Environmental Specifications

Temperature

Operating Range -55 to +105 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3W08322

- **xx**

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

Example: PE3W08322-12 = 12 inches long cable
PE3W08322-100cm = 100 cm long cable

SMC Plug Right Angle to SMC Plug Cable 18 Inch 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.

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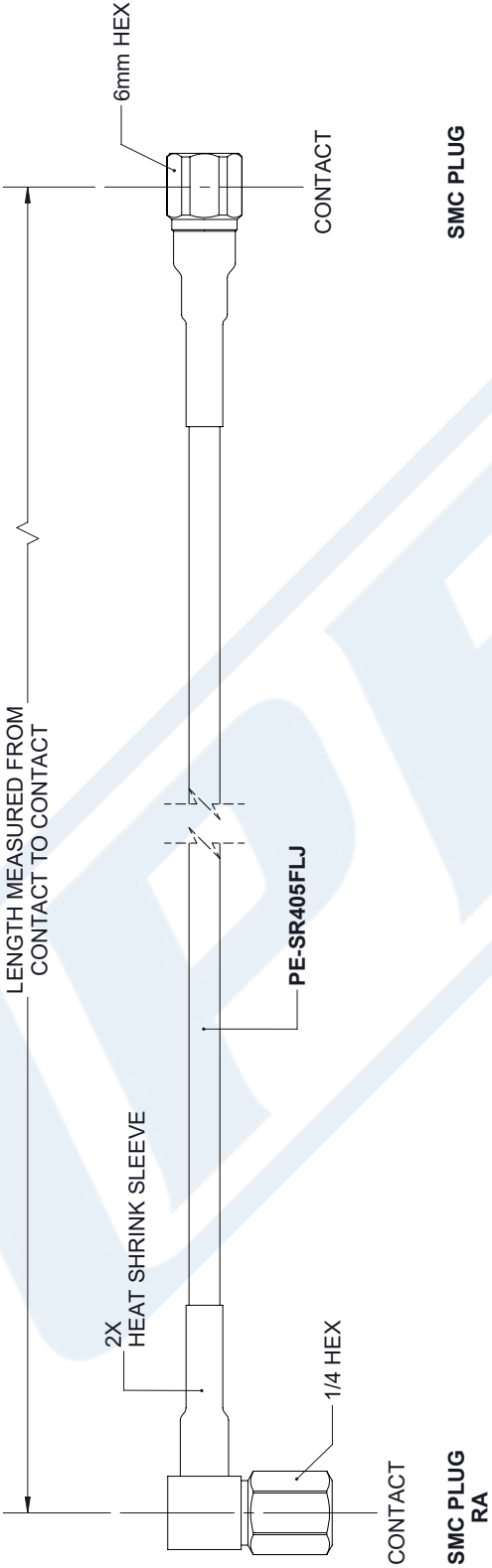
URL: <https://www.pasternack.com/smc-plug-smc-plug-pe-sr405flj-cable-assembly-pe3w08322-18-p.aspx>

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.

PE3W08322-18 CAD Drawing

SMC Plug Right Angle to SMC Plug Cable 18 Inch Using PE-SR405FLJ Coax

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/23/2020	SELLIS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ± .2	[.08]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	= +1 [25] / -0
12 [305] < L ≤ 60 [1524]	= +2 [51] / -0
60 [1524] < L ≤ 120 [3048]	= +4 [102] / -0
120 [3048] < L ≤ 300 [7620]	= +6 [152] / -0
300 [7620] < L	= +5% L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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SIZE: A CAGE CODE: 53919 DRAWN BY: K.DANG ITEM NO: PE3W08322 REV: A

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV

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