



SSMC Plug to SMA Male Cable 50 cm Length Using PE-SR405FLJ Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

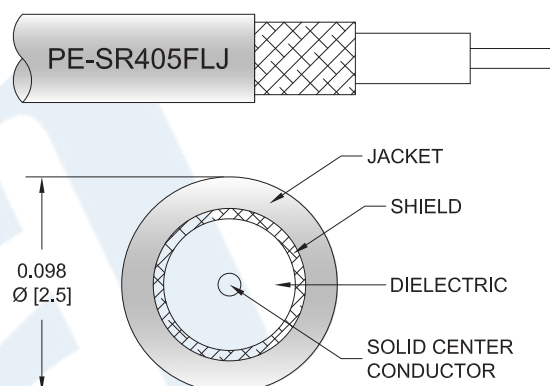
PE3W04384/HS-50CM

Configuration

- Connector 1: SSMC Plug
- Connector 2: SMA Male
- Cable Type: PE-SR405FLJ

Features

- Max Frequency 12.4 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04384/HS-50CM SSMC plug to SMA male 50 cm 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 SSMC to SMA cable assembly has a plug to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W04384/HS-50CM SSMC plug to SMA male cable assembly operates to 12.4 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: [SSMC Plug to SMA Male Cable 50 cm Length Using PE-SR405FLJ Coax with HeatShrink PE3W04384/HS-50CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	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 Km]		65.7 [215.55]		Ohms/1000ft [Ohms/
DC Resistance Outer Conductor Km]		10.2 [33.46]		Ohms/1000ft [Ohms/
Operating Voltage (AC)			250	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4	8	12.4	GHz
Insertion Loss (Max.)	1.15	1.23	1.35	1.55	1.91	dB
Mismatch Loss (Est.)	1.35	1.68				dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated loss of 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

Length*	19.68 in [499.87 mm]
Diameter	0.315 in [8 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

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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]

Connectors

Description	Connector 1	Connector 2
Type	SSMC Plug	SMA Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	50 µin minimum
Dielectric Type	Teflon	PTFE
Body Material and Plating	Beryllium Copper, Gold	Stainless Steel, Gold
Body Plating Specification	MIL-G-45204	10 µin minimum
Coupling Nut Material and Plating	Beryllium Copper, Gold	Brass, Nickel
Coupling Nut Plating Specification	MIL-G-45204	100 µin minimum
Hex Size		5/16 inch
Torque	1.75 in-lbs [0.2 Nm]	3 in-lbs [0.34 Nm]

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or $\pm 3/8"$, whichever is greater.

Environmental Specifications

Temperature

Operating Range -55 to +125 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:

PE3W04384/HS

- xx

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

Example: PE3W04384/HS-12 = 12 inches long cable
PE3W04384/HS-100cm = 100 cm long cable

SSMC Plug to SMA Male Cable 50 cm Length Using PE-SR405FLJ Coax with HeatShrink 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: [SSMC Plug to SMA Male Cable 50 cm Length Using PE-SR405FLJ Coax with HeatShrink PE3W04384/HS-50CM](https://www.pasternack.com/ssmc-plug-sma-male-pe-sr405flj-cable-assembly-pe3w04384-hs-50cm-p.aspx)

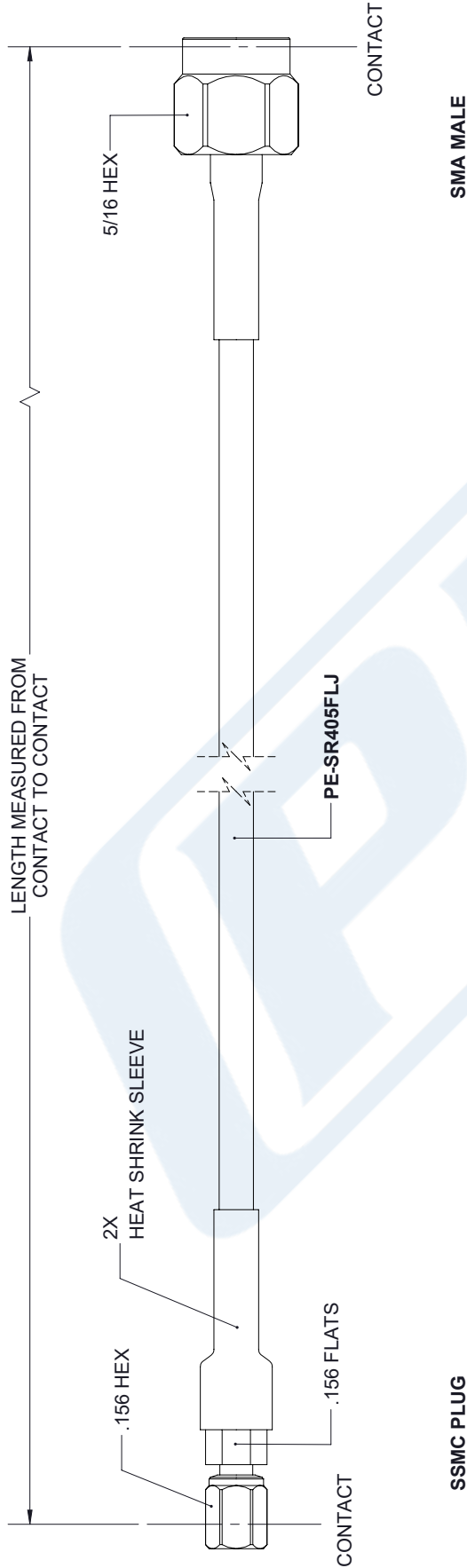
URL: <https://www.pasternack.com/ssmc-plug-sma-male-pe-sr405flj-cable-assembly-pe3w04384-hs-50cm-p.aspx>

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PE3W04384/HS-50CM CAD Drawing

SSMC Plug to SMA Male Cable 50 cm Length Using PE-SR405FLJ Coax with HeatShrink

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	05/02/19	S.ELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [.25]	±.13
.XXX±.005 [.13]	ANGLES ± 1°
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

PE PASTERNAK an INFINITO brand	
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SIZE	CAGE
A	53919
DRAWN BY	K.DANG
PART NUMBER	PE3W04384/HS
REV	A

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SCALE	N/A

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