



SMA Male to Mini SMP Female Cable 50 cm Length Using PE-SR405FLJ Coax with HeatShrink

RF Cable Assemblies Technical Data Sheet

PE3W04210/HS-50CM

Configuration

- Connector 1: SMA Male
- Connector 2: Mini SMP Female
- Cable Type: PE-SR405FLJ

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 100 dB
- 69.5% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04210/HS-50CM SMA male to Mini SMP female 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 SMA to Mini SMP cable assembly has a male to female gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W04210/HS-50CM SMA male to Mini SMP female cable assembly operates to 18 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: [SMA Male to Mini SMP Female Cable 50 cm Length Using PE-SR405FLJ Coax with Heat-Shrink PE3W04210/HS-50CM](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	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 Km]		65.7 [215.55]		Ohms/1000ft [Ohms/
DC Resistance Outer Conductor Km]		10.2 [33.46]		Ohms/1000ft [Ohms/

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.57	0.66	0.87	1.25	1.99	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion 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
Jacket Material	FEP, Black
Jacket Diameter	0.105 in [2.67 mm]

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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	SMA Male	Mini SMP Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	50μ in. minimum	MIL-G-45204
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Plating Specification	3μ in. minimum	MIL-G-45204
Coupling Nut Material and Plating	Brass, Gold	
Coupling Nut Plating Specification	3μ in. minimum	
Hex Size	5/16 Inch	
Torque	3 in-lbs [0.34 Nm]	

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or ± 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:

PE3W04210/HS

- xx

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

Example: PE3W04210/HS-12 = 12 inches long cable
PE3W04210/HS-100cm = 100 cm long cable

SMA Male to Mini SMP Female 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.

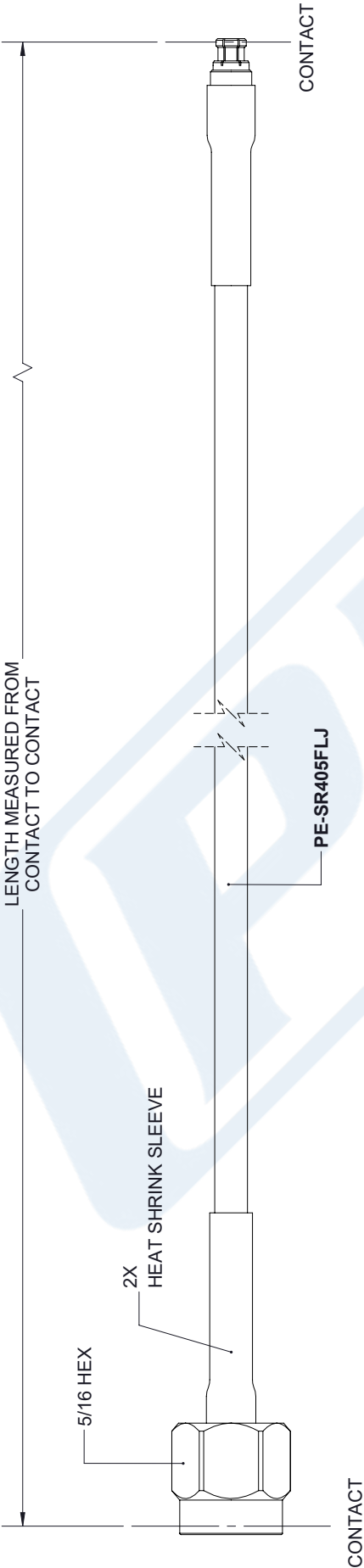
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to Mini SMP Female Cable 50 cm Length Using PE-SR405FLJ Coax with HeatShrink PE3W04210/HS-50CM](https://www.pasternack.com/sma-male-mini-smp-female-pe-sr405flj-cable-assembly-pe3w04210-hs-50cm-p.aspx)

URL: <https://www.pasternack.com/sma-male-mini-smp-female-pe-sr405flj-cable-assembly-pe3w04210-hs-50cm-p.aspx>

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PE3W04210/HS-50CM CAD Drawing
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	05/08/19	SELLIS



Mini SMP
FEMALE

SMA MALE

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

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SIZE	CAGE	DRAWN BY	PART NUMBER
A	53919	K.DANG	PE3W04210/HS
			REV
			A

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SCALE	N/A		

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