



Limited Detent SMP Male Bulkhead to SMA Male Cable Using PE-SR405FLJ Coax

RF Cable Assemblies Technical Data Sheet

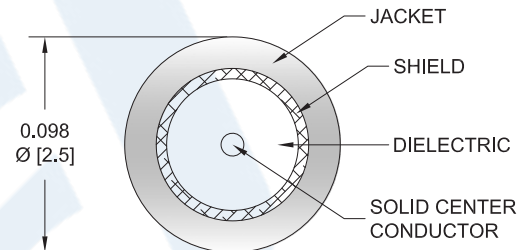
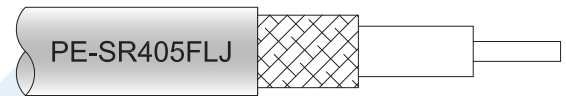
PE3W05498

Configuration

- Connector 1: Limited DetentSMP Male Bulkhead
- Connector 2: SMA Male
- 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 PE3W05498 SMP male limited detent bulkhead to SMA male 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 SMA cable assembly has a male to male gender configuration with 50 ohm formable PE-SR405FLJ coax. The PE3W05498 SMP male to SMA male cable assembly operates to 18 GHz. Our RF cable assembly with SMP bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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: [Limited Detent SMP Male Bulkhead to SMA Male Cable Using PE-SR405FLJ Coax PE3W05498](#)



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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/ Km]
DC Resistance Outer Conductor Km]		10.2 [33.46]		Ohms/1000ft [Ohms/ Km]
Operating Voltage (AC)			335	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.22	0.3	0.5	0.76	1.12	dB/ft
	0.72	0.98	1.64	2.49	3.67	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of connectors. Insertion Loss is estimated as 0.2dB of connector loss

Mechanical Specifications

Cable Assembly

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	SMP Male Bulkhead	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method	Limited Detent	
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		50µ in. minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification		3µ in. minimum
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:

PE3W05498

- **xx**

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

Example: PE3W05498-12 = 12 inches long cable
 PE3W05498-100cm = 100 cm long cable

Limited Detent SMP Male Bulkhead to SMA Male Cable 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Limited Detent SMP Male Bulkhead to SMA Male Cable Using PE-SR405FLJ Coax PE3W05498](https://www.pasternack.com/smp-male-sma-male-pe-sr405flj-cable-assembly-pe3w05498-p.aspx)

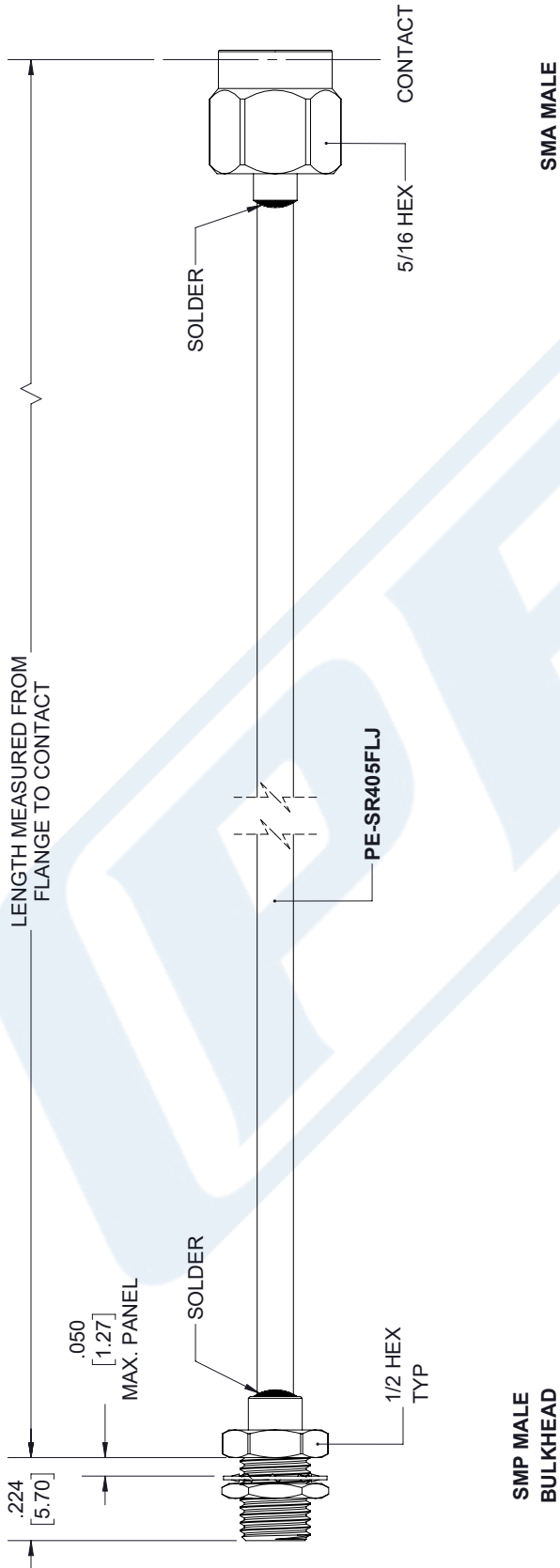
URL: <https://www.pasternack.com/smp-male-sma-male-pe-sr405flj-cable-assembly-pe3w05498-p.aspx>

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PE3W05498 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	04/23/19	S. ELLIS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
.XX±.01 [.25]	ANGLES ± 1°
.XXX±.005 [0.13]	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	

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an INFINITO brand

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SHEET 1 OF 1
SCALE N/A

SIZE A
CAGE 53919
DRAWN BY K.DANG
PART NUMBER PE3W05498
REV A

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