



SMP Female to Limited Detent SMP Male Bulkhead Cable Using PE-SR405AL Coax

RF Cable Assemblies Technical Data Sheet

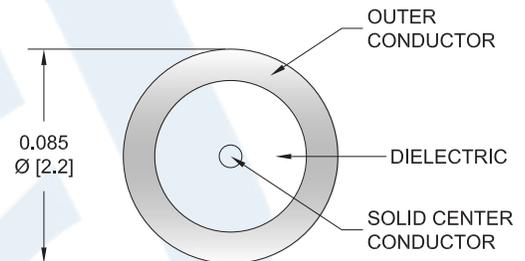
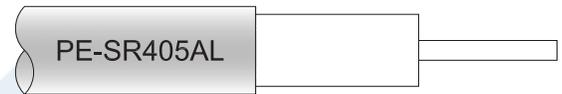
PE3W11091

Configuration

- Connector 1: SMP Female
- Connector 2: Limited Detent SMP Male Bulkhead
- Cable Type: PE-SR405AL

Features

- Max Frequency 18 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W11091 SMP female to SMP male limited detent bulkhead cable using PE-SR405AL coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack SMP to SMP cable assembly has a female to male gender configuration with 50 ohm semi-rigid PE-SR405AL coax. The PE3W11091 SMP female to SMP 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: [SMP Female to Limited Detent SMP Male Bulkhead Cable Using PE-SR405AL Coax PE3W11091](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.23	0.326	0.456	0.746	1.21	dB/ft
	0.75	1.07	1.5	2.45	3.97	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for SMP Female connector and 0.05 xSQRT(FGHz) dB max up to 12 GHz for SMP Male Connector.

Mechanical Specifications

Cable Assembly

Weight 0.017 lbs [7.71 g]

Cable

Cable Type PE-SR405AL
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Outer Conductor Material and Plating Tinned Aluminum
 One Time Minimum Bend Radius 0.05 in [1.27 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMP Female	SMP Male Bulkhead
Specification	MIL-STD-348	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Connection Method		Limited Detent
Mating Cycles		500
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold
Body Plating Specification	MIL-G-45204	

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:

PE3W11091

- **xx**

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

Example: PE3W11091-12 = 12 inches long cable
PE3W11091-100cm = 100 cm long cable

SMP Female to Limited Detent SMP Male Bulkhead Cable Using PE-SR405AL 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.

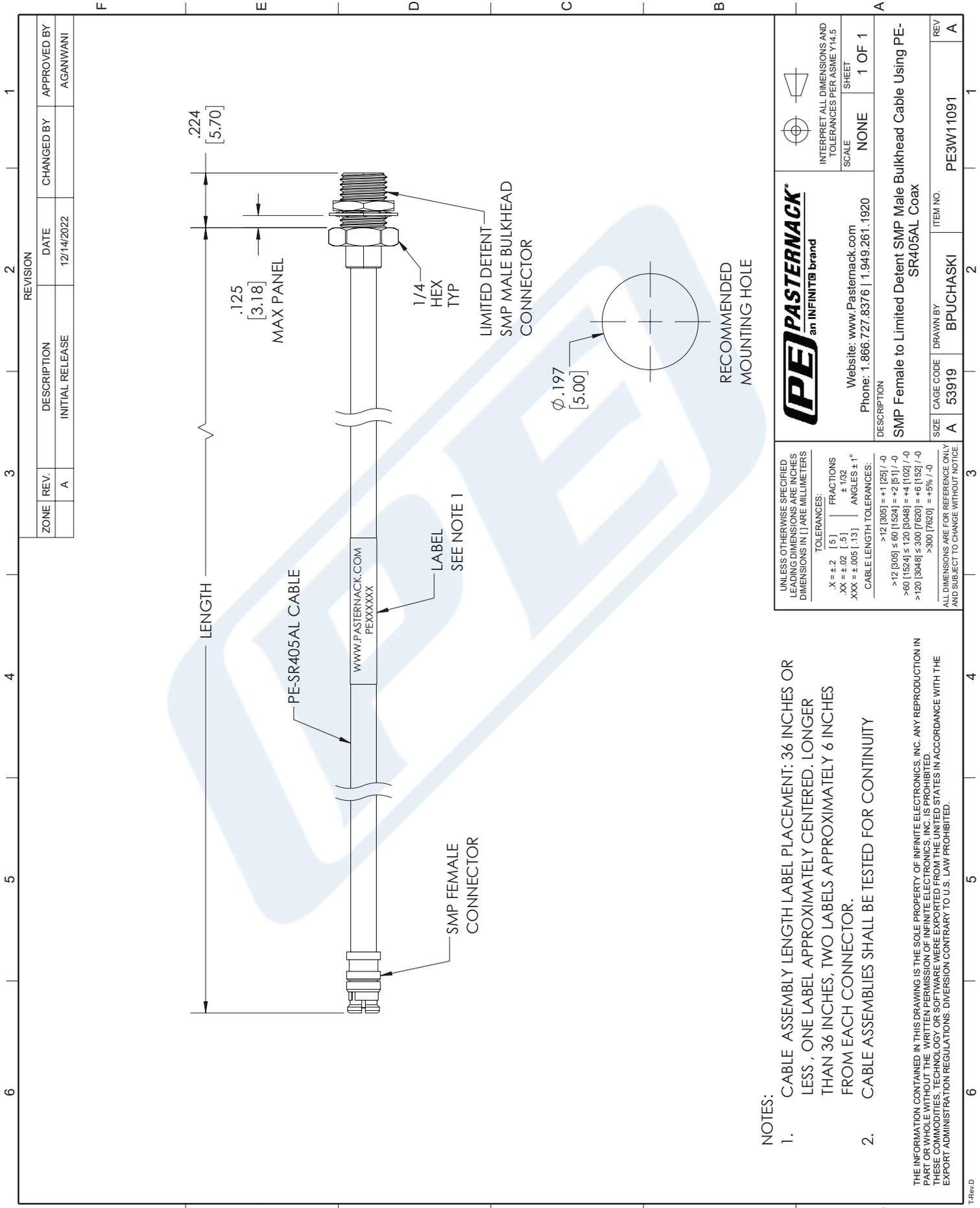
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female to Limited Detent SMP Male Bulkhead Cable Using PE-SR405AL Coax PE3W11091](https://www.pasternack.com/smp-female-to-limited-detent-smp-male-bulkhead-cable-using-pe-sr405al-pe3w11091-p)

URL: <https://www.pasternack.com/smp-female-to-limited-detent-smp-male-bulkhead-cable-using-pe-sr405al-pe3w11091-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.

PE3W11091 CAD Drawing

SMP Female to Limited Detent SMP Male Bulkhead Cable Using PE-SR405AL Coax



ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	12/14/2022		AGANWANI

PE PASTERNAK an INFINITO brand	Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
DESCRIPTION: SMP Female to Limited Detent SMP Male Bulkhead Cable Using PE-SR405AL Coax		
SIZE: A	CAGE CODE: 53919	ITEM NO.: PE3W11091
DRAWN BY: BPUCHASKI		

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: X = ±.2 [.5] FRACTIONS ±.1/32 .XX = ±.02 [.5] ANGLES ± 1° .XXX = ±.005 [.13] CABLE LENGTH TOLERANCES: >12 [305] = +.1 [25] / -0 >60 [1524] = +.2 [51] / -0 >120 [3048] = +.4 [102] / -0 >300 [7620] = +.6 [152] / -0 >600 [15240] = +.8 [203] / -0	ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.
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NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY

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