

SMP Female to SMA Female Bulkhead Cable Using PE-SR405FL Coax with HeatShrink



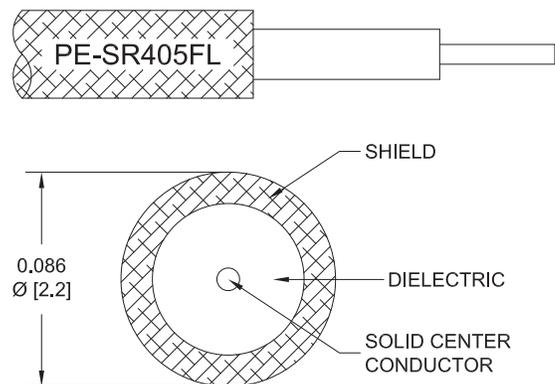
PE3W00474/HS

Configuration

- Connector 1: SMP Female
- Connector 2: SMA Female Bulkhead
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W00474/HS SMP female to SMA female bulkhead cable using PE-SR405FL 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 female to female gender configuration with 50 ohm formable PE-SR405FL coax. The PE3W00474/HS SMP female to SMA female cable assembly operates to 18 GHz. Our RF cable assembly with SMA 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		65.7 [215.55]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

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PE3W00474/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		1000	2000	4500	9000	
PE3W00474/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.225	0.306	0.509	0.759	1.122	dB/ft	
			0.74	1.01	1.67	2.5	3.69	dB/m	
PE3W00474/HS-6	6 In	Insertion Loss (Typ.)	0.82	0.86	0.96	1.08	1.27	dB	0.02
PE3W00474/HS-9	9 In	Insertion Loss (Typ.)	0.87	0.93	1.09	1.27	1.55	dB	0.023
PE3W00474/HS-12	12 In	Insertion Loss (Typ.)	0.93	1.01	1.21	1.46	1.83	dB	0.025
PE3W00474/HS-24	24 In	Insertion Loss (Typ.)	1.15	1.32	1.72	2.22	2.95	dB	0.037
PE3W00474/HS-36	36 In	Insertion Loss (Typ.)	1.38	1.62	2.23	2.98	4.07	dB	0.048

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.6 dB
Base Weight:	0.025 pounds
Additional Weight per Inch:	0.00092 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.014 lbs [6.35 g]

Cable

Cable Type	PE-SR405FL
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 1 Material and Plating	Copper, Tin
Repeated Minimum Bend Radius	0.78 in [19.81 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMP Female	SMA Female Bulkhead
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel
Contact Plating Specification	MIL-G-45204	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Beryllium Copper, Gold	Brass, Gold over Nickel
Body Plating Specification	MIL-G-45204	

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Environmental Specifications

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

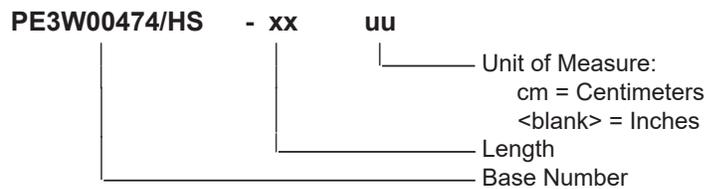
Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W00474/HS-12 = 12 inches long cable
PE3W00474/HS-100cm = 100 cm long cable

SMP Female to SMA Female Bulkhead Cable Using PE-SR405FL 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.

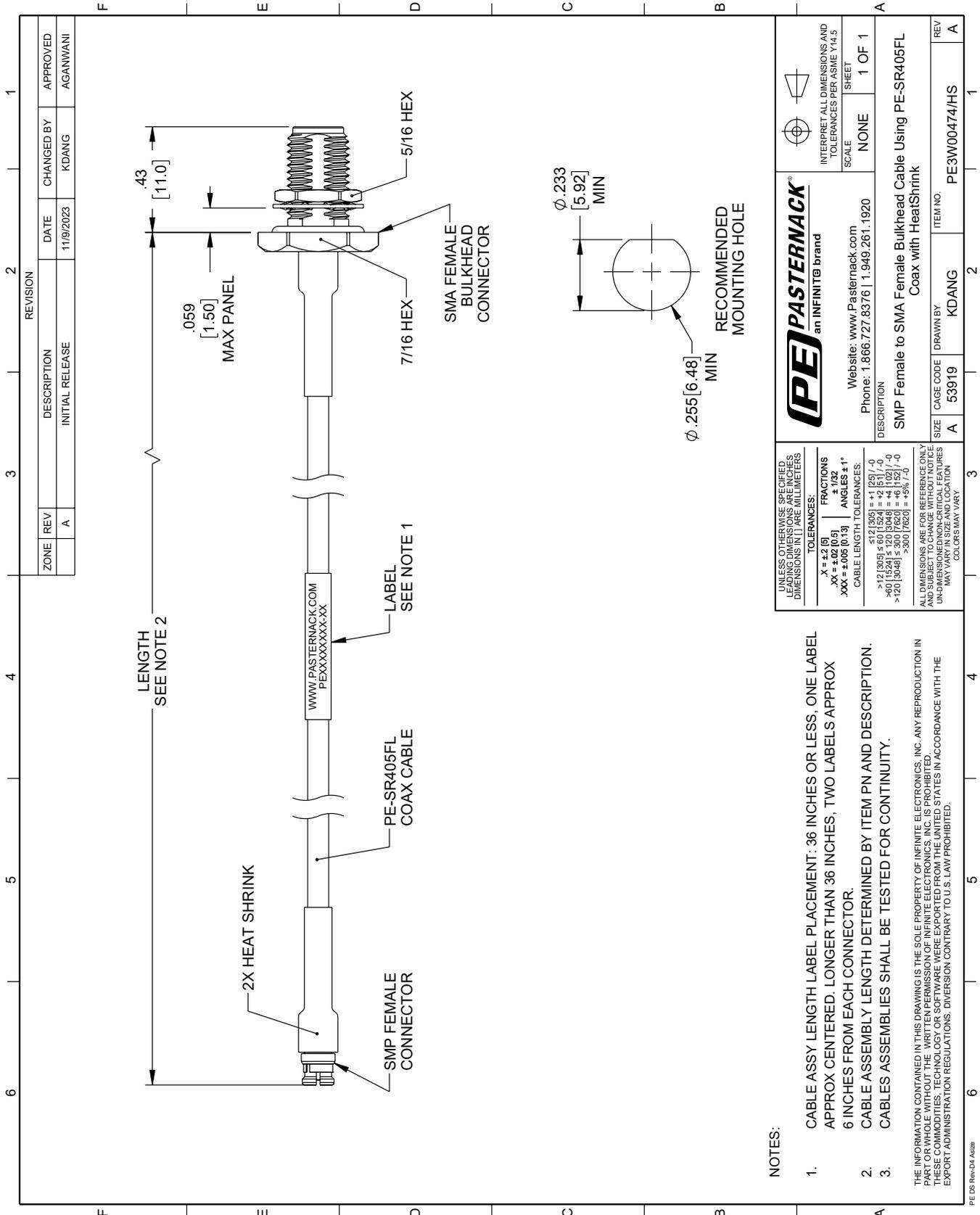
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female to SMA Female Bulkhead Cable Using PE-SR405FL Coax with HeatShrink PE3W00474/HS](#)

URL: <https://www.pasternack.com/smp-female-to-sma-female-bulkhead-cable-using-pe-sr405fl-with-heatshrink-pe3w00474-hs-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W00474/HS CAD Drawing

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	11/09/2023	KDANG	AGANWANI

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

TOLERANCES:	FRACTIONS	ANGLES
.X = ±.2 [5]	± 1/32	± 1°
.XX = ±.02 [0.5]		
.XXX = ±.005 [0.13]		

CABLE LENGTH TOLERANCES:

<12 [305]	±.60 [15.24]
>12 [305]	±.11 [2.8]
>40 [1024]	±.120 [3.048]
>120 [3048]	±.300 [7.620]

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE MILLIMETERS. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE MILLIMETERS.

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE

SHEET: 1 OF 1

Website: www.Pasternack.com

Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION: SMP Female to SMA Female Bulkhead Cable Using PE-SR405FL Coax with HeatShrink

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KDANG	PE3W00474/HS

- NOTES:**
- CABLE ASSY LENGTH LABEL PLACEMENT: .36 INCHES OR LESS, ONE LABEL APPROX CENTERED, LONGER THAN .36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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