

N Female Bulkhead to SMP Female Right Angle Cable Using PE-SR405FL Coax



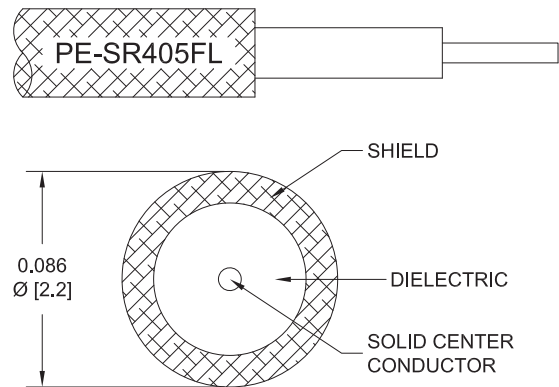
PE3C5494

Configuration

- Connector 1: N Female Bulkhead
- Connector 2: SMP Female Right Angle
- Cable Type: PE-SR405FL
- Coax Flex Type: Formable

Features

- Max Frequency 3 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5494 type N female bulkhead to SMP female right angle 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 type N to SMP cable assembly has a female to female gender configuration with 50 ohm formable PE-SR405FL coax. The PE3C5494 type N female to SMP female cable assembly operates to 3 GHz. The right angle SMP interface on the PE-SR405FL cable allows for easier connections in tight spaces. Our RF cable assembly with type N 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		3	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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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	3000	MHz	
PE3C5494	Custom Lengths Available	Insertion Loss (Typ.)	0.15	0.23	0.346	0.387	dB/ft	
			0.5	0.74	1.14	1.27	dB/m	
PE3C5494-6	6 inch	Insertion Loss (Typ.)	0.25	0.32	0.44	0.47	dB	0.097
PE3C5494-9	9 inch	Insertion Loss (Typ.)	0.29	0.37	0.52	0.57	dB	0.1
PE3C5494-12	12 inch	Insertion Loss (Typ.)	0.33	0.43	0.61	0.67	dB	0.102
PE3C5494-24	24 inch	Insertion Loss (Typ.)	0.48	0.65	0.96	1.05	dB	0.114
PE3C5494-36	36 inch	Insertion Loss (Typ.)	0.63	0.88	1.3	1.44	dB	0.125

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: $0.1 \cdot \sqrt{f(\text{GHz})}$ dB
 Base Weight: 0.102 pounds
 Additional Weight per Inch: 0.00092 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]
 Weight: 0.102 lbs [46.27 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	N Female Bulkhead	SMP Female Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Beryllium Copper, Gold
Body Plating Specification	100 µin minimum	

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PE3C5494

Environmental Specifications

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

Plotted and Other Data

Notes:

Typical Performance Data

How to Order

Part Number Configuration:

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

Example: PE3C5494-12 = 12 inches long cable
 PE3C5494-100cm = 100 cm long cable

N Female Bulkhead to SMP Female Right Angle Cable Using PE-SR405FL 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: [N Female Bulkhead to SMP Female Right Angle Cable Using PE-SR405FL Coax PE3C5494](#)

URL: <https://www.pasternack.com/n-female-bulkhead-to-smp-female-cable-using-pe-sr405fl-pe3c5494-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.

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