

N Female Bulkhead to SMA Male Cable
Using PE-SR405FL Coax , LF Solder



RF Cable Assemblies Technical Data Sheet

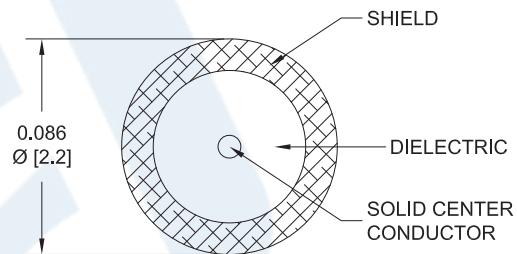
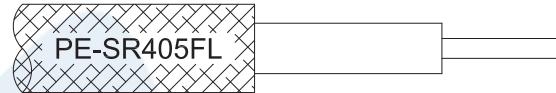
PE39447LF

Configuration

- Connector 1: N Female Bulkhead
- Connector 2: SMA Male
- Cable Type: PE-SR405FL

Features

- Max Frequency 6 GHz
- 69.5% Phase Velocity



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE39447LF type N female bulkhead to SMA male 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 SMA cable assembly has a female to male gender configuration with 50 ohm formable PE-SR405FL coax. The PE39447LF type N female to SMA male cable assembly operates to 6 GHz. 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.

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 SMA Male Cable Using PE-SR405FL Coax , LF Solder PE39447LF](#)

N Female Bulkhead to SMA Male Cable Using PE-SR405FL Coax , LF Solder



RF Cable Assemblies Technical Data Sheet

PE39447LF

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5	6	GHz
Insertion Loss (Typ.)	0.15	0.225	0.346	0.549	0.601	dB/ft
	0.49	0.74	1.14	1.8	1.97	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.105 lbs [47.63 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 Material and Plating Copper, Tin

Repeated Minimum Bend Radius 0.78 in [19.81 mm]

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 SMA Male Cable Using PE-SR405FL Coax , LF Solder PE39447LF](#)

N Female Bulkhead to SMA Male Cable Using PE-SR405FL Coax , LF Solder



RF Cable Assemblies Technical Data Sheet

PE39447LF

Connectors

Description	Connector 1	Connector 2
Type	N Female Bulkhead	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Phosphor Bronze, Gold over Nickel	Brass, Gold over Nickel
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Gold over Nickel
Coupling Nut Material and Plating		Passivated Stainless Steel
Hex Size		5/16 inch
Torque		8 in-lbs [0.9 Nm]

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

Plotted and Other Data

Notes:

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 SMA Male Cable Using PE-SR405FL Coax , LF Solder PE39447LF](#)

N Female Bulkhead to SMA Male Cable
Using PE-SR405FL Coax , LF Solder



RF Cable Assemblies Technical Data Sheet

PE39447LF

How to Order

Part Number Configuration:



Example: PE39447LF-12 = 12 inches long cable
PE39447LF-100cm = 100 cm long cable

N Female Bulkhead to SMA Male Cable Using PE-SR405FL Coax , LF Solder 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 SMA Male Cable Using PE-SR405FL Coax , LF Solder PE39447LF](#)

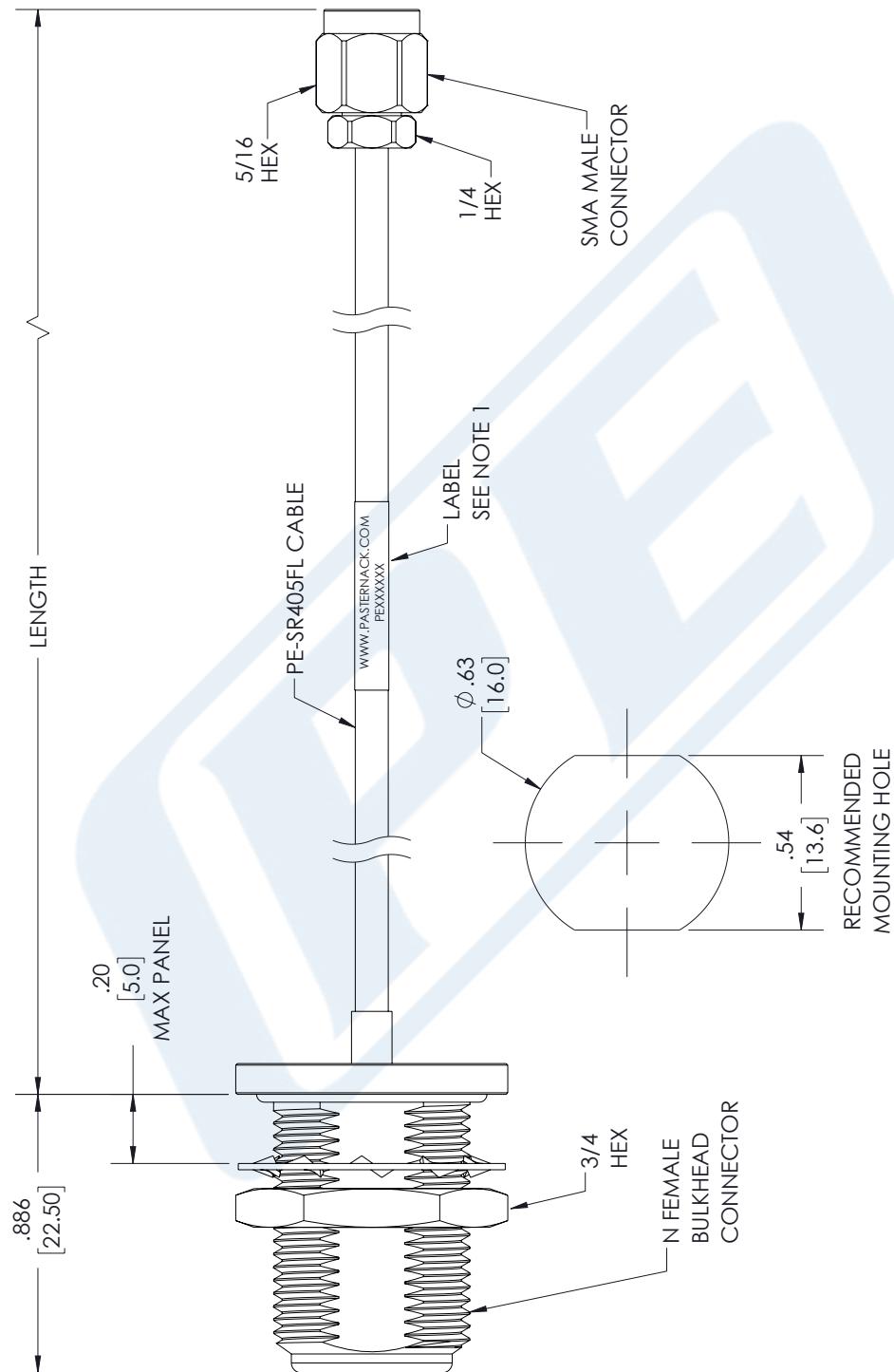
URL: <https://www.pasternack.com/n-female-bulkhead-to-sma-male-cable-using-pe-sr405fl-lf-solder-pe39447lf-p.aspx>

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.

PE39447LF CAD Drawing

N Female Bulkhead to SMA Male Cable Using PE-SR405FL Coax , LF Solder

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/25/2023	BPUCHASKI	AGANWANI



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

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.

 PASTERNACK an INFINITI® brand		 							
TOLERANCES: <table border="1"> <tr> <td>[5]</td> <td>FRACTIONS</td> </tr> <tr> <td>2</td> <td>$\pm 1/32$</td> </tr> <tr> <td>05</td> <td>[1.3]</td> </tr> </table>		[5]	FRACTIONS	2	$\pm 1/32$	05	[1.3]	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SHEET	
[5]	FRACTIONS								
2	$\pm 1/32$								
05	[1.3]								
DESCRIPTION N Female Bulkhead to SMA Male Cable Using PE-SR405FFL Coax , LF Solder		WEBSITE: www.Pasternack.com PHONE: 1.866.727.8376 1.949.261.1920							
SIZE	CAGE CODE	DRAWN BY	REV						
A	53919	BPUCHASKI	A						
NOTES: 1) OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INS IN [] ARE MILLIMETERS		2) LENGTH TOLERANCES: $\pm 1/32$ [1.3] ANGLES $\pm 1^\circ$ ± 12 [305] ± 60 [1524] ± 4 [51] / -0 ± 4 [102] / -0							
3) ± 300 [7620] ± 6 [152] / -0		4) FOR REFERENCE ONLY TOLERANCES ARE FOR REFERENCE ONLY IT TO CHANGE WITHOUT NOTICE							