



SMA Male to TNC Female Bulkhead Semi-Flexible Precision Cable Using PE-SR405FL Coax, LF Solder, RoHS

RF Cable Assemblies Technical Data Sheet

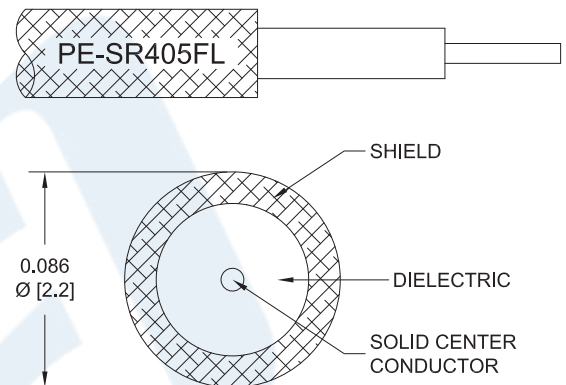
PE39475

Configuration

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

Features

- Max Frequency 6 GHz
- 69.5% Phase Velocity
- Dimensionally and electrically the same as standard, solid outer conductor semi-rigid coax
- Cable may be formed by hand and does not require special tools to bend
- May be formed more than once without damaging the outer conductor
- High RF Shielding >100 dB
- 100% Hi-pot and continuity tested
- 100% VSWR tested to max frequency of assembly
- Standard and custom lengths ship the same day



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE39475 SMA male to TNC 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 SMA to TNC cable assembly has a male to female gender configuration with 50 ohm formable PE-SR405FL coax. The PE39475 SMA male to TNC female cable assembly operates to 6 GHz. Our RF cable assembly with TNC 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. Pasternack's formable cable assemblies are hand formable semi-rigid replacements that are an alternative to costly preformed assemblies. The formable semi-rigid cable alternatives are dimensionally and electrically similar to their semi-rigid counterpart and have a tinned-copper-braid outer shield that provides excellent RF shielding. The hand formable cable assemblies from Pasternack do not require special tooling to shape or reshape the assemblies and can replace standard semi-rigid versions. The assemblies are available with or without a FEP jacket and are RoHS compliant,

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: [SMA Male to TNC Female Bulkhead Semi-Flexible Precision Cable Using PE-SR405FL Coax, LF Solder, RoHS PE39475](#)



SMA Male to TNC Female Bulkhead Semi-Flexible Precision Cable Using PE-SR405FL Coax, LF Solder, RoHS

RF Cable Assemblies Technical Data Sheet

PE39475

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Velocity of Propagation		69.5		%
Capacitance		29 [95.14]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	6	GHz
Insertion Loss (Typ.)	0.256	0.313	0.425	0.547	0.802	dB/ft
	0.84	1.03	1.39	1.79	2.63	dB/m

Mechanical Specifications

Cable Assembly

Diameter	0.69 in [17.53 mm]
Weight	0.055 lbs [24.95 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
Shield Layer 1	Tinned Copper Braid

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Female Bulkhead Semi-Flexible Precision Cable Using PE-SR405FL Coax, LF Solder, RoHS PE39475](#)



SMA Male to TNC Female Bulkhead Semi-Flexible Precision Cable Using PE-SR405FL Coax, LF Solder, RoHS

RF Cable Assemblies Technical Data Sheet

PE39475

Connectors

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

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

Plotted and Other Data

Notes:

- Values at 25°C, sea level.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Female Bulkhead Semi-Flexible Precision Cable Using PE-SR405FL Coax, LF Solder, RoHS PE39475](#)



SMA Male to TNC Female Bulkhead Semi-Flexible Precision Cable Using PE-SR405FL Coax, LF Solder, RoHS

RF Cable Assemblies Technical Data Sheet

PE39475

How to Order

Part Number Configuration:

PE39475

- **xx**

uu

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

Example: PE39475-12 = 12 inches long cable
PE39475-100cm = 100 cm long cable

SMA Male to TNC Female Bulkhead Semi-Flexible Precision Cable Using PE-SR405FL Coax, LF Solder, RoHS 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: [SMA Male to TNC Female Bulkhead Semi-Flexible Precision Cable Using PE-SR405FL Coax, LF Solder, RoHS PE39475](https://www.pasternack.com/sma-male-tnc-female-pe-sr405fl-cable-assembly-pe39475-p.aspx)

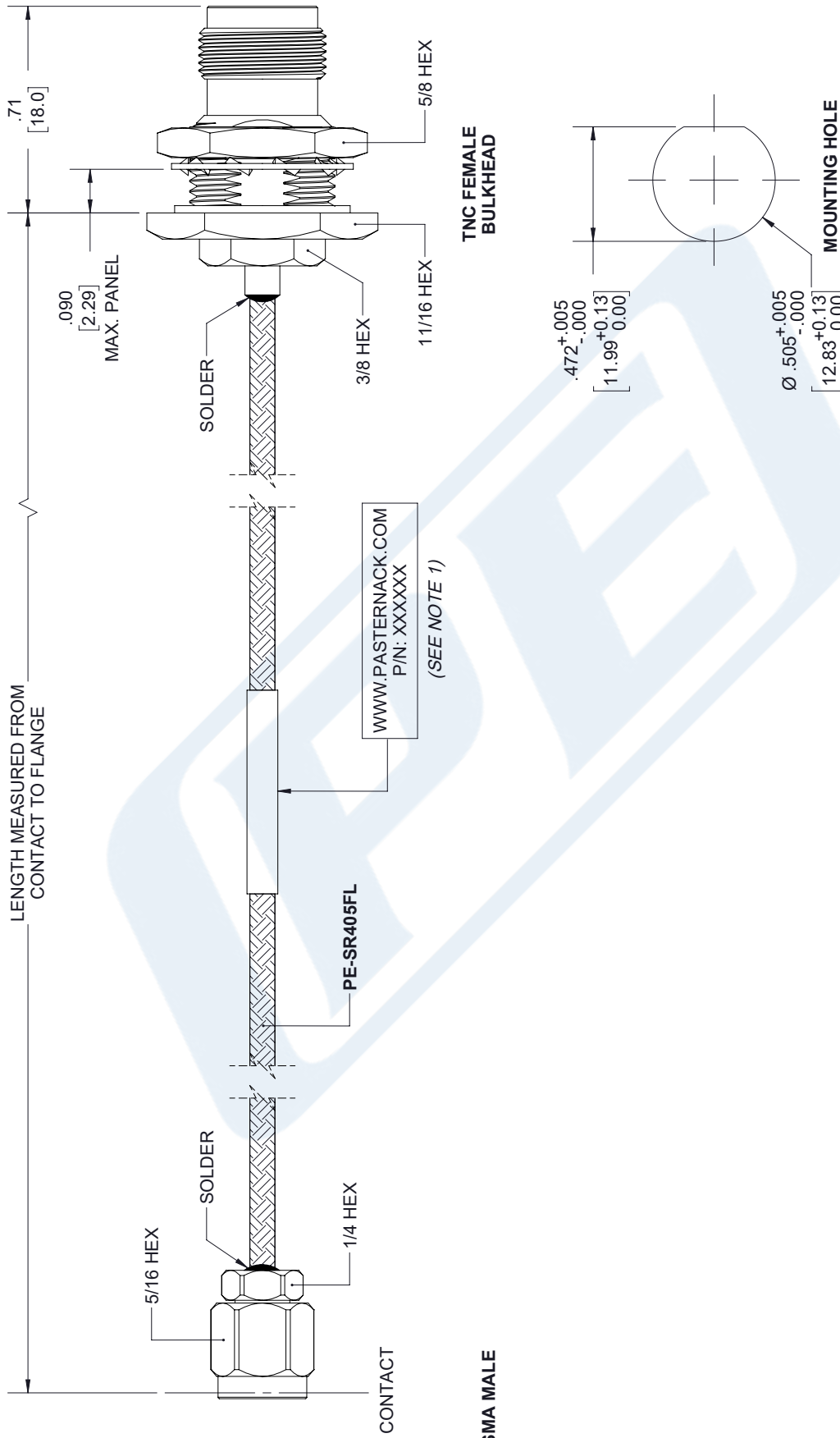
URL: <https://www.pasternack.com/sma-male-tnc-female-pe-sr405fl-cable-assembly-pe39475-p.aspx>

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.

PE39475 CAD Drawing

SMA Male to TNC Female Bulkhead Semi-Flexible Precision Cable Using PE-SR405FL Coax, LF Solder, RoHS

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	5/13/2020	S. SELLIS



THIRD-ANGLE PROJECTION

THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

REV A

PE PASTERNAK
an INFINITO brand

Pasternack Enterprises, Inc.
P. O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

ITEM NO. PE-39475

SIZE A

CAGE CODE 53919

DRAWN BY K. DANG

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

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32
.XX = ±.02 [.51] ANGLES ± 1°
.XXX = ±.005 [.13] CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

NOTES:
1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE END OF THE CONNECTOR.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.