



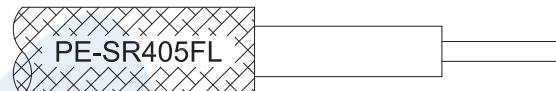
SMA Female 2 Hole Flange to Straight Cut Lead Test Probe Cable 6 Inch Length Using PE-SR405FL Coax

RF Cable Assemblies Technical Data Sheet

PE3C8142-6

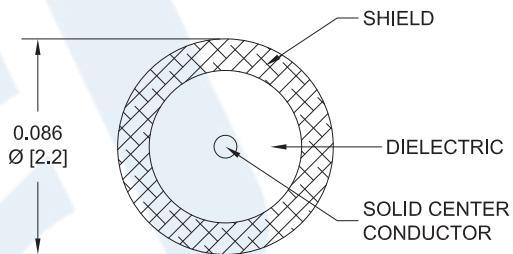
Configuration

- Connector 1: SMA Female 2 Hole Flange
- Connector 2: Straight Cut Lead
- Cable Type: PE-SR405FL



Features

- Max Frequency 18 GHz
- 69.5% Phase Velocity
- 100% RF Tested prior to final trim
- 1.4 Max VSWR to 18 GHz
- 100% High Pot Tested to 500V
- 0.086 Diameter Formable coax
- Individually packed in protective tube



Applications

- General Purpose
- Test & Measurement
- Laboratory Use
- Used as an RF Test Probe to 18 GHz
- RF PCB Board Measurements
- Signal Injection

Description

Pasternack's PE3C8142-6 50 ohm SMA Female to straight cut cable using PE-SR405FL coax is part of our full line of RF components available for same-day shipping. Pasternack's formable cable assemblies provide a convenient alternative to their semi-rigid versions, as they offer similar electrical performance but can be bent to desired shape without the use of special tools.

These SMA Female to unterminated flush cut cable assemblies are designed to be used as convenient test probes. The unterminated end of the cable can be trimmed by the user to their desired dimensions. A common research and development application is to solder the trimmed end of the cable to an exposed microstrip trace to inject a signal or to measure a signal of interest. Each cable assembly is individually packaged in a reusable protective tube. These test probes have been 100% RF tested as a two-ended assembly prior to trimming to verify the assembly's performance to 18 GHz with a maximum VSWR of 1.4:1. Pre-Trimmed Test Probes are also available.

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 Female 2 Hole Flange to Straight Cut Lead Test Probe Cable 6 Inch Length Using PE-SR405FL Coax PE3C8142-6](#)



SMA Female 2 Hole Flange to Straight Cut Lead Test Probe Cable 6 Inch Length Using PE-SR405FL Coax

RF Cable Assemblies Technical Data Sheet

PE3C8142-6

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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		10.2 [33.46]		Ω/1000ft [Ω/Km]

Mechanical Specifications

Cable Assembly

Length*

6 in [152.4 mm]

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]

Connectors

Description	Connector 1	Connector 2
Type	SMA Female 2 Hole Flange	Straight Cut Lead
Specification	MIL-STD-348	
Impedance	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	
Contact Plating Specification	MIL-G-45204	
Dielectric Type	PTFE	
Body Material and Plating	Stainless Steel, Gold	
Body Plating Specification	MIL-G-45204	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female 2 Hole Flange to Straight Cut Lead Test Probe Cable 6 Inch Length Using PE-SR405FL Coax PE3C8142-6](#)



SMA Female 2 Hole Flange to Straight Cut Lead Test Probe Cable 6 Inch Length Using PE-SR405FL Coax

RF Cable Assemblies Technical Data Sheet

PE3C8142-6

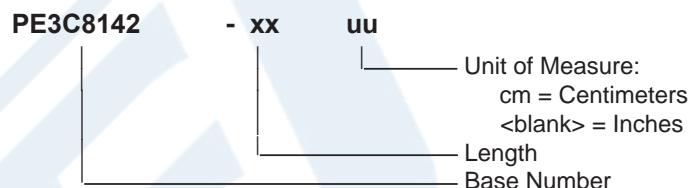
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:



Example: PE3C8142-12 = 12 inches long cable
PE3C8142-100cm = 100 cm long cable

SMA Female 2 Hole Flange to Straight Cut Lead Test Probe Cable 6 Inch Length 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.

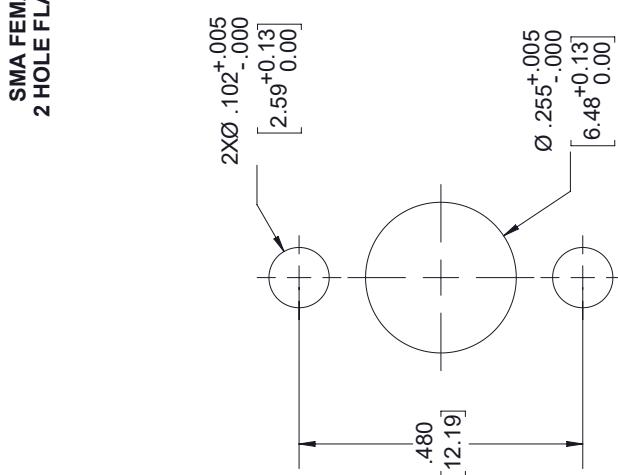
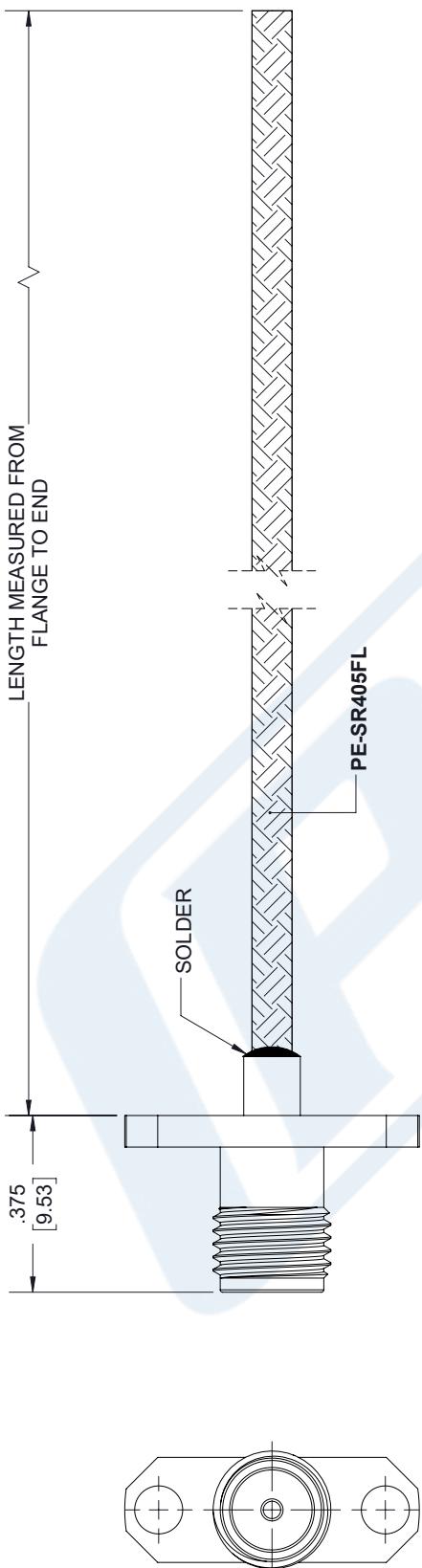
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female 2 Hole Flange to Straight Cut Lead Test Probe Cable 6 Inch Length Using PE-SR405FL Coax PE3C8142-6](#)

URL: <https://www.pasternack.com/sma-female-straight-cut-sexless-pe-sr405fl-cable-assembly-pe3c8142-6-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.

PE3C8142-6 CAD Drawing
 SMA Female 2 Hole Flange to Straight Cut Lead Test Probe
 Cable 6 Inch Length Using PE-SR405FL Coax

REVISIONS					
REV.	DESCRIPTION	DATE	APPROVED		
A	INITIAL RELEASE	5/10/2021	S.SELLIS		



THIRD ANGLE PROJECTION		THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.	
 PASTERNAK an INFINITE brand		SHEET	OF
Pasterнак Enterprises, Inc.	P.O. Box 16759, Irvine, CA 92623.	1	1
Phone: 1.949.261.1920	Fax: 1.949.261.7451		
Website: www.pasterнак.com	E-mail: sales@pasterнак.com	SCALE	N/A
ITEM NO.	PE3C8142	REV	A
SIZE	CAGE CODE	DRAWN BY	
A	53919	K.DANG	

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

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

ALL DIMENSIONS SHOWN
 ARE FOR REFERENCE ONLY.

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.