



## SMA Male to SMA Male Cable Using RG316 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

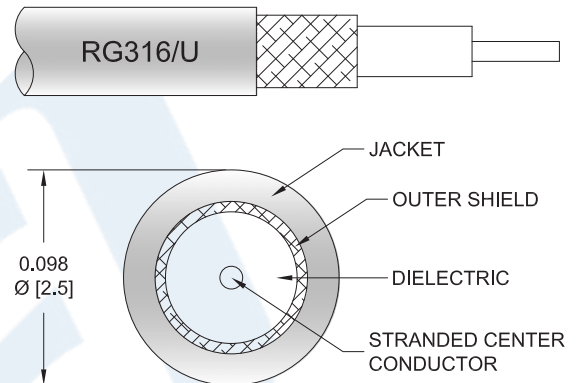
**PE3W02070LF**

#### Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: RG316

#### Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W02070LF SMA male to SMA male cable using RG316 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG316 coax. The PE3W02070LF SMA male to SMA male cable assembly operates to 3 GHz.

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 SMA Male Cable Using RG316 Coax , LF Solder PE3W02070LF](#)



## SMA Male to SMA Male Cable Using RG316 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE3W02070LF**

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Jacket Spark			2,000	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.11	0.16	0.238	0.38	0.58	dB/ft
	0.36	0.52	0.78	1.25	1.9	dB/m

#### Electrical Specification Notes:

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

#### Mechanical Specifications

##### Cable Assembly

Weight 0.032 lbs [14.51 g]

##### Cable

Cable Type RG316  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 1  
 Shield Layer 1 Silver Plated Copper Braid  
 Jacket Material FEP, Tan  
 Jacket Diameter 0.098 in [2.49 mm]

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 SMA Male Cable Using RG316 Coax , LF Solder PE3W02070LF](#)



## SMA Male to SMA Male Cable Using RG316 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE3W02070LF**

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs [0.57 Nm]	5 in-lbs [0.57 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: [SMA Male to SMA Male Cable Using RG316 Coax , LF Solder PE3W02070LF](#)



## SMA Male to SMA Male Cable Using RG316 Coax , LF Solder

### RF Cable Assemblies Technical Data Sheet

**PE3W02070LF**

#### How to Order

Part Number Configuration:

**PE3W02070LF**

- **xx**

**uu**

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

Example: PE3W02070LF-12 = 12 inches long cable  
PE3W02070LF-100cm = 100 cm long cable

SMA Male to SMA Male Cable Using RG316 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.

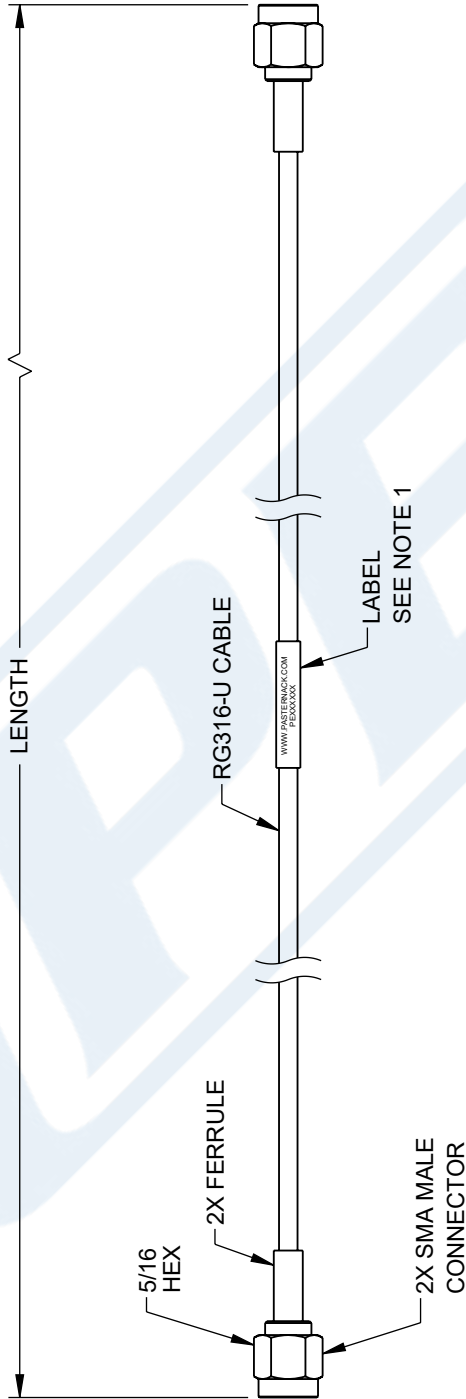
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Cable Using RG316 Coax , LF Solder PE3W02070LF](https://www.pasternack.com/sma-male-to-sma-male-cable-using-rg316-lf-solder-pe3w02070lf-p.aspx)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-rg316-lf-solder-pe3w02070lf-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.

## PE3W02070LF CAD Drawing

## SMA Male to SMA Male Cable Using RG316 Coax , LF Solder



## NOTES:

1. 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.
2. 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. 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.

TOLERANCES:		
	FRACTIONS	ANGLES ± °
$X \pm .2$	[.5]	
$XX \pm .02$	[.5]	± 1/32
$XXX \pm .005$	[.13]	

CABLE LENGTH TOLERANCES:	
$\leq 12$ [305]	$\pm 1$ [25] / -0
$>12$ [305] $\leq 60$ [1524]	$\pm 2$ [51] / -0
$>60$ [1524] $\leq 120$ [3048]	$\pm 4$ [102] / -0
$>120$ [3048] $\leq 300$ [7620]	$\pm 6$ [152] / -0
$>300$ [7620]	$\pm 5$ / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY.  
AND SUBJECT TO CHANGE WITHOUT NOTICE.

 <b>PASTERNAK®</b> an INFINITI® brand		Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		 	
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5				SCALE	NONE
				SHEET	1 OF 1
DESCRIPTION					
SMA Male to SMA Male Cable Using RG316 Coax, LF Solder					
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	
A	53919	BPUCHASKI	PE3W02070LF	A	