

SHV Plug to SMA Male Cable Using RG303 Coax, LF Solder



PE3C1656LF

Configuration

- Connector 1: SHV Plug
- Connector 2: SMA Male
- Cable Type: RG303
- Coax Flex Type: Flexible

Features

- Max Frequency 300 MHz
- 69% Phase Velocity
- FEP Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1656LF SHV plug to SMA male cable using RG303 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 SHV to SMA cable assembly has a plug to male gender configuration with 50 ohm flexible RG303 coax. The PE3C1656LF SHV plug to SMA male cable assembly operates to 300 MHz.

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		300	MHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Capacitance		32 [104.99]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	50	100	250	300	MHz	
PE3C1656LF	Custom Lengths Available	Insertion Loss (Typ.)	0.01	0.02	0.05	0.06	dB/ft	
			0.04	0.08	0.18	0.22	dB/m	
PE3C1656LF-12	12 inch	Insertion Loss (Typ.)	0.22	0.23	0.26	0.27	dB	0.078
PE3C1656LF-24	24 inch	Insertion Loss (Typ.)	0.23	0.25	0.31	0.33	dB	0.105
PE3C1656LF-36	36 inch	Insertion Loss (Typ.)	0.24	0.27	0.37	0.4	dB	0.132
PE3C1656LF-48	48 inch	Insertion Loss (Typ.)	0.25	0.29	0.42	0.46	dB	0.159
PE3C1656LF-60	60 inch	Insertion Loss (Typ.)	0.26	0.31	0.47	0.53	dB	0.186

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 dB
Base Weight:	0.078 pounds
Additional Weight per Inch:	0.00225 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.078 lbs [35.38 g]

Cable

Cable Type	RG303
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	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.17 in [4.32 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SHV Plug	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum
Hex Size		16-May inch
Torque		3 in-lbs 0.34 Nm

Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

Plotted and Other Data

Notes:

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Typical Performance Data

How to Order

Part Number Configuration:

PE3C1656LF **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3C1656LF-12 = 12 inches long cable
 PE3C1656LF-100cm = 100 cm long cable

SHV Plug to SMA Male Cable Using RG303 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: [SHV Plug to SMA Male Cable Using RG303 Coax, LF Solder PE3C1656LF](#)

URL: <https://www.pasternack.com/shv-plug-to-sma-male-cable-using-rg303-lf-solder-pe3c1656lf-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.

PE3C1656LF CAD Drawing

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