

50 Ohm SHV Jack to 75 Ohm F Male Cable Using 75 Ohm RG59 Coax



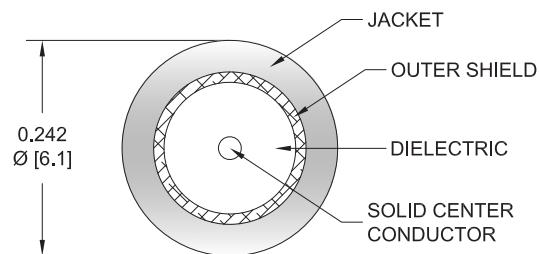
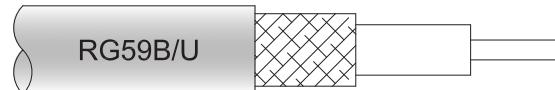
PE3W16800

Configuration

- Connector 1: SHV Jack
- Connector 2: F Male
- Cable Type: RG59
- Coax Flex Type: Flexible

Features

- Max Frequency 300 MHz
- 66% Phase Velocity
- PVC (NC) Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W16800 50 ohm SHV jack to 75 ohm type F male cable using 75 ohm RG59 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 type F cable assembly has a jack to male gender configuration with 75 ohm flexible RG59 coax. The PE3W16800 SHV jack to type F 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	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		20.4 [66.93]		pF/ft [pF/m]

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	Units	Weight (lbs)
		Frequency	100	250	300	MHz	
PE3W16800	Custom Lengths Available	Insertion Loss (Typ.)	0.038	0.059	0.064	dB/ft	
			0.13	0.2	0.21	dB/m	
PE3W16800-12	12 In	Insertion Loss (Typ.)	0.24	0.26	0.27	dB	0.097
PE3W16800-24	24 In	Insertion Loss (Typ.)	0.28	0.32	0.33	dB	0.133
PE3W16800-36	36 In	Insertion Loss (Typ.)	0.32	0.38	0.4	dB	0.169
PE3W16800-60	60 In	Insertion Loss (Typ.)	0.39	0.5	0.52	dB	0.241
PE3W16800-72	72 In	Insertion Loss (Typ.)	0.43	0.56	0.59	dB	0.277

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: 0.097 pounds
Additional Weight per Inch: 0.003 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.097 lbs [44 g]

Cable

Cable Type	RG59
Impedance	75 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Copper Braid
Jacket Material	PVC (NC), Black
Jacket Diameter	0.242 in [6.15 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SHV Jack	F Male
Specification	MIL-STD-348B	
Impedance	50 Ohms	75 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold over Nickel over copper	Brass, Nickel
Contact Plating Specification		100 μ in minimum
Dielectric Type	Teflon	
Body Material and Plating	Brass, Tinned Copper	Brass, Nickel
Body Plating Specification		100 μ in minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 μ in minimum
Hex Size		7/16 inch
Torque		12 in-lbs 1.36 Nm

Environmental Specifications

Operating Range Temperature -25 to +70 deg C

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

Plotted and Other Data

Notes:

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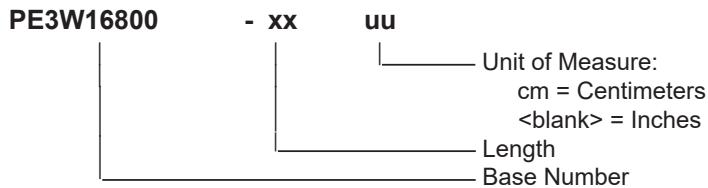


PE3W16800

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W16800-12 = 12 inches long cable
PE3W16800-100cm = 100 cm long cable

50 Ohm SHV Jack to 75 Ohm F Male Cable Using 75 Ohm RG59 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: [50 Ohm SHV Jack to 75 Ohm F Male Cable Using 75 Ohm RG59 Coax PE3W16800](#)

URL: <https://www.pasternack.com/50-ohm-shv-jack-to-75-ohm-f-male-cable-using-rg59-pe3w16800-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.

PE3W16800 CAD Drawing

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