

SMA Female Bulkhead to Slide-On BMA Plug Bulkhead Cable Using PE-SR402FLJ Coax



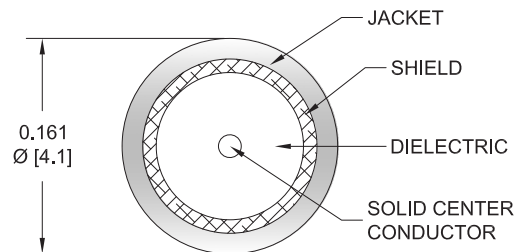
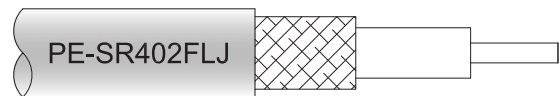
PE3W16394

Configuration

- Connector 1: SMA Female Bulkhead
- Connector 2: Slide-On BMA Plug Bulkhead
- Cable Type: PE-SR402FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 18 GHz
- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W16394 SMA female bulkhead to BMA plug slide-on bulkhead cable using PE-SR402FLJ 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 BMA cable assembly has a female to plug gender configuration with 50 ohm formable PE-SR402FLJ coax. The PE3W16394 SMA female to BMA plug cable assembly operates to 18 GHz. Our RF cable assembly with SMA bulkhead and BMA 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.

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		18	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	100			dB
Group Delay		1.43 [4.69]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.23 [27]		Ohms/1000ft [Ohms/Km]

Specifications by Frequency

SMA Female Bulkhead to Slide-On BMA Plug
Bulkhead Cable Using PE-SR402FLJ Coax



PE3W16394

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	1000	2000	4500	9000	18000	
PE3W16394	Custom Lengths Available	Insertion Loss (Typ.)	0.125	0.174	0.296	0.45	0.682	dB/ft	
			0.42	0.58	0.98	1.48	2.24	dB/m	
PE3W16394-6	6 inch	Insertion Loss (Typ.)	0.77	0.79	0.85	0.93	1.05	dB	0.029
PE3W16394-9	9 inch	Insertion Loss (Typ.)	0.8	0.84	0.93	1.04	1.22	dB	0.036
PE3W16394-12	12 inch	Insertion Loss (Typ.)	0.83	0.88	1	1.15	1.39	dB	0.043
PE3W16394-18	18 inch	Insertion Loss (Typ.)	0.89	0.97	1.15	1.38	1.73	dB	0.058
PE3W16394-24	24 inch	Insertion Loss (Typ.)	0.95	1.05	1.3	1.6	2.07	dB	0.073

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: 0.6 dB
 Base Weight: 0.043 pounds
 Additional Weight per Inch: 0.00242 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.043 lbs [19.5 g]

Cable

Cable Type PE-SR402FLJ
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PTFE
 Outer Conductor 1 Material and Plating Tinned Copper Braid
 Jacket Material FEP, Black
 Jacket Diameter 0.161 in [4.09 mm]
 One Time Minimum Bend Radius 0.315 in [8 mm]
 Repeated Minimum Bend Radius 1.575 in [40.01 mm]

SMA Female Bulkhead to Slide-On BMA Plug
Bulkhead Cable Using PE-SR402FLJ Coax



PE3W16394

Connectors

Description	Connector 1	Connector 2
Type	SMA Female Bulkhead	BMA Plug Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method		Slide-On
Mating Cycles		1,000
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification		51.18µ in. minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Stainless Steel, Gold
Outer Conductor Plating Specification		19.68µ in. minimum
Body Material and Plating	Brass, Gold over Nickel	Stainless Steel, Gold
Body Plating Specification		19.68µ in. minimum
Hex Size		11 mm

Environmental Specifications

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

Plotted and Other Data

Notes:

SMA Female Bulkhead to Slide-On BMA Plug Bulkhead Cable Using PE-SR402FLJ Coax



PE3W16394

Typical Performance Data

How to Order

Part Number Configuration:

PE3W16394

- **xx**

uu

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

Example: PE3W16394-12 = 12 inches long cable
PE3W16394-100cm = 100 cm long cable

SMA Female Bulkhead to Slide-On BMA Plug Bulkhead Cable Using PE-SR402FLJ 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 Bulkhead to Slide-On BMA Plug Bulkhead Cable Using PE-SR402FLJ Coax PE3W16394](#)

URL: <https://www.pasternack.com/sma-female-bulkhead-to-slide-on-bma-plug-bulkhead-cable-using-pe-sr402flj-pe3w16394-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.

PE3W16394 CAD Drawing

SMA Female Bulkhead to Slide-On BMA Plug Bulkhead Cable Using PE-SR402FLJ Coax

