

Slide-On BMA Plug Bulkhead to Slide-On BMA Plug Bulkhead Cable Using RG402 Coax

PE3W06971

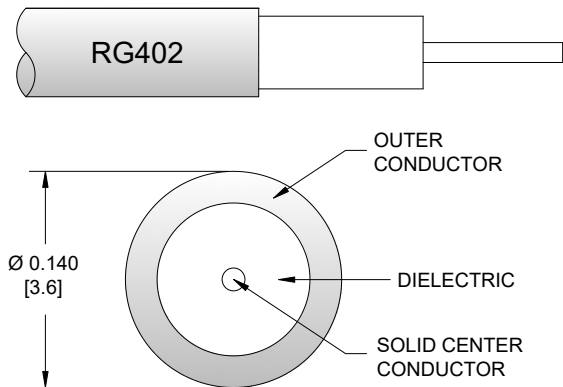


Configuration

- Connector 1: Slide-On BMA Plug Bulkhead
- Connector 2: Slide-On BMA Plug Bulkhead
- Cable Type: RG402
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 22 GHz
- 69.5% Phase Velocity
- 500 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06971 BMA plug slide-on bulkhead to BMA plug slide-on bulkhead cable using RG402 coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack BMA to BMA cable assembly has a plug to plug gender configuration with 50 ohm semi-rigid RG402 coax. The PE3W06971 BMA plug to BMA plug cable assembly operates to 22 GHz. Our RF cable assembly with 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		22	GHz
VSWR			1.4:1	
Velocity of Propagation		69.5		%
Dielectric Withstanding Voltage (AC)			1,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			1000	2000	4500	9000	22000	MHz	
PE3W06971	Custom Lengths Available	Insertion Loss (Typ.)	0.11	0.15	0.26	0.4	0.726	dB/ft	
			0.37	0.51	0.86	1.33	2.39	dB/m	
PE3W06971-6	6 inch	Insertion Loss (Typ.)	0.26	0.28	0.33	0.41	0.57	dB	0.028
PE3W06971-12	12 inch	Insertion Loss (Typ.)	0.32	0.36	0.46	0.61	0.93	dB	0.044
PE3W06971-24	24 inch	Insertion Loss (Typ.)	0.43	0.51	0.72	1.01	1.66	dB	0.077
PE3W06971-36	36 inch	Insertion Loss (Typ.)	0.54	0.67	0.98	1.42	2.38	dB	0.109
PE3W06971-60	60 inch	Insertion Loss (Typ.)	0.76	0.97	1.5	2.22	3.84	dB	0.173

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:	0.044 pounds
Additional Weight per Inch:	0.00267 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.044 lbs [19.96 g]

Cable

Cable Type	RG402
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 1 Material and Plating	Copper
Jacket Material	Tan
Repeated Minimum Bend Radius	0.25 in [6.35 mm]

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Connectors

Description	Connector 1	Connector 2
Type	BMA Plug Bulkhead	BMA Plug Bulkhead
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Connection Method	Slide-On	Slide-On
Mating Cycles	500	500
Contact Material and Plating	Bronze, Gold	Bronze, Gold
Contact Plating Specification	51.18μ in. minimum	51.18μ in. minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Outer Conductor Plating Specification	78.74μ in. minimum	78.74μ in. minimum
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	78.74μ in. minimum	78.74μ in. minimum
Hex Size	8 mm	8 mm

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

Plotted and Other Data

Notes:

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PE3W06971

Typical Performance Data

How to Order

Part Number Configuration: **PE3W06971** **- xx** **uu**

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

Length

Base Number

Example: PE3W06971-12 = 12 inches long cable
PE3W06971-100cm = 100 cm long cable

Slide-On BMA Plug Bulkhead to Slide-On BMA Plug Bulkhead Cable Using RG402 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: [Slide-On BMA Plug Bulkhead to Slide-On BMA Plug Bulkhead Cable Using RG402 Coax PE3W06971](#)

URL: <https://www.pasternack.com/slide-on-bma-plug-bulkhead-to-slide-on-bma-plug-bulkhead-cable-using-rg402-pe3w06971-p.aspx>

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PE3W06971 CAD Drawing

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