PASTERNACK®
THE ENGINEER'S RF SOURCE

Snap-On BMA Jack to Snap-On BMA Jack
Cable Using PE-SR402FLJ Coax

RF Cable Assemblies Technical Data Sheet   PE3C4901

Configuration
- Connector 1: Snap-On BMA Jack
- Connector 2: Snap-On BMA Jack
- Cable Type: PE-SR402FLJ

PE-SR402FLJ

JACKET
SHIELD
DIELECTRIC
SOLID CENTER CONDUCTOR

0.161 Ø [4.1]

Features
- Max Frequency 22 GHz
- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket
- Good VSWR of 1.5:1
- Gold Plated BMA Contacts
- Low Engagement Force BMA interface
- In stock and ready to ship

Applications
- General Purpose
- Laboratory Use BMA Cable RF Backplanes
- Blind Mate BMA Test
- Rack and Panel
- Phased Array Interconnects
- High Speed Switching Networks

Description

Pasternack's BMA cable assemblies using PE-SR402FLJ Coax are part of our full line of RF components available for same-day shipping. These BMA cable assemblies are designed to connect BMA system components, BMA racks, or BMA back-planes, delivering signal frequencies as high as 22 GHz. Our family of BMA cables can also be used to connect switching networks or phase-matched antenna arrays where low loss BMA interconnects are desired. If none of our standard options fit your application, you can specify your own custom BMA cable assembly using Pasternack's online Cable Creator.

Our BMA cable assembly datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave cable assemblies allow designers to configure and customize their signal connections however they like. Whether the need is to provide BMA cabling or blind mate rack connections, Pasternack has the right cable assemblies for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same day.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Snap-On BMA Jack to Snap-On BMA Jack Cable Using PE-SR402FLJ Coax PE3C4901

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		22	GHz
VSWR			1.5:1	
Return Loss			15.56	dB
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]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	22	GHz
Insertion Loss (Typ.)	0.12	0.16	0.27	0.39	0.65	dB/ft
	0.39	0.52	0.89	1.28	2.13	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
Diameter   0.35 in [8.89 mm]

Cable
Cable Type   PE-SR402FLJ
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   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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Snap-On BMA Jack to Snap-On BMA Jack Cable Using PE-SR402FLJ Coax PE3C4901

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Connectors

Description	Connector 1	Connector 2
Type	BMA Jack	BMA Jack
Impedance	50 Ohms	50 Ohms
Connection Method	Snap-On	Snap-On
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	51.18µ in. minimum	51.18µ in. minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold
Body Plating Specification	19.68µ in. minimum	19.68µ in. minimum

Mechanical Specification Notes:
*All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

Environmental Specifications
Temperature
Operating Range   -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data
Notes:

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Typical Performance Data

PANEL DRILLING

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How to Order

Part Number Configuration: **PE3C4901   - xx   uu**

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

Example: PE3C4901-12 = 12 inches long cable
PE3C4901-100cm = 100 cm long cable

Snap-On BMA Jack to Snap-On BMA Jack 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.
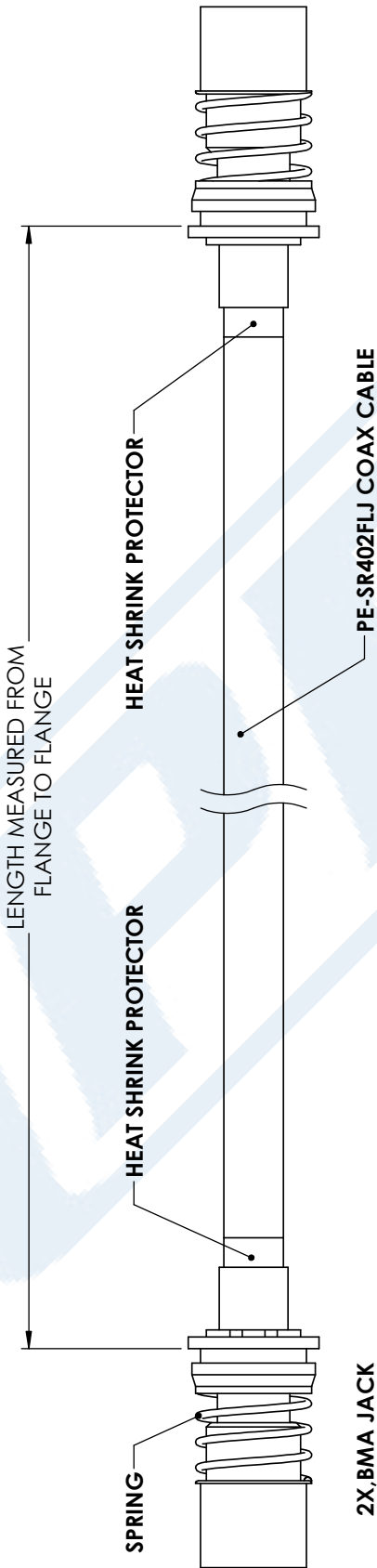
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URL: https://www.pasternack.com/bma-jack-bma-jack-pe-sr402flj-cable-assembly-pe3c4901-p.aspx

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.

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PE3C4901 CAD Drawing
Snap-On BMA Jack to Snap-On BMA Jack Cable Using PE-SR402FLJ Coax

LENGTH MEASURED FROM FLANGE TO FLANGE

HEAT SHRINK PROTECTOR

PE-SR402FLJ COAX CABLE

HEAT SHRINK PROTECTOR

SPRING

2X, BMA JACK

STANDARD TOLERANCES
.X   ±0.2
.XX   ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

PE3C4901 REV 1.1