RF Cable Assemblies Technical Data Sheet   PE3C4908
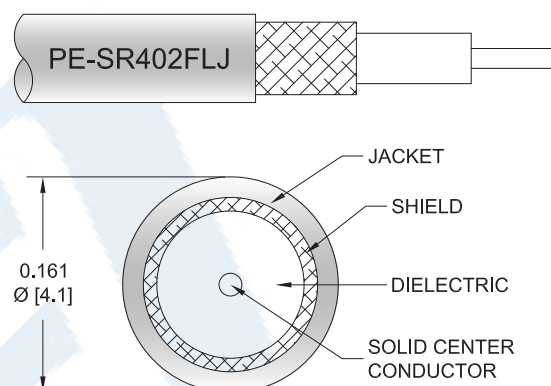
Configuration

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

Features

- Max Frequency 18 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

0.161 Ø [4.1]

JACKET
SHIELD
DIELECTRIC
SOLID CENTER CONDUCTOR

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 backplanes, 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 SMA Male Cable Using PE-SR402FLJ Coax PE3C4908

RF Cable Assemblies Technical Data Sheet   PE3C4908

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	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]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.12	0.16	0.26	0.39	0.58	dB/ft
	0.39	0.52	0.85	1.28	1.9	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 SMA Male Cable Using PE-SR402FLJ Coax PE3C4908

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

RF Cable Assemblies Technical Data Sheet   PE3C4908

Connectors

Description	Connector 1	Connector 2
Type	BMA Jack	SMA Male
Impedance	50 Ohms	50 Ohms
Connection Method	Snap-On	
Contact Material and Plating	Beryllium Copper, Gold	
Contact Plating Specification	51.18µ in. minimum	
Dielectric Type	PTFE	
Outer Conductor Material and Plating	Beryllium Copper, Gold	
Body Material and Plating	Stainless Steel, Gold	Brass, Gold over Nickel
Body Plating Specification	19.68µ in. minimum	
Coupling Nut Material and Plating		Passivated Stainless Steel
Hex Size		16-May inch
Torque		8 in-lbs [0.9 Nm]

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

Compliance Certifications (see product page for current document)

Plotted and Other Data
   Notes:

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 SMA Male Cable Using PE-SR402FLJ Coax PE3C4908
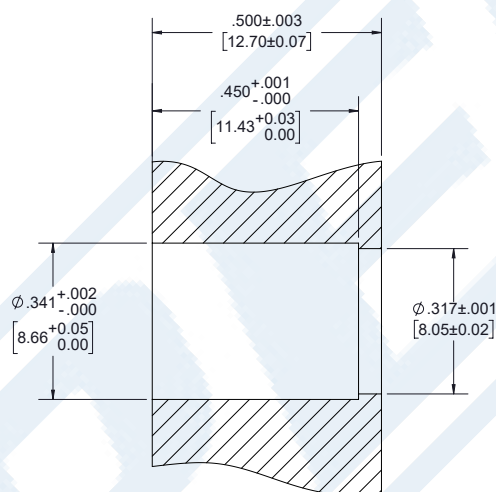
Snap-On BMA Jack to SMA Male Cable
Using PE-SR402FLJ Coax

RF Cable Assemblies Technical Data Sheet   PE3C4908

Typical Performance Data

.500±.003
[12.70±0.07]

.450 +.001 -.000
[11.43 +0.03 0.00]

$\varnothing$.341 +.002 -.000
[8.66 +0.05 0.00]

$\varnothing$.317±.001
[8.05±0.02]

PANEL DRILLING

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 SMA Male Cable Using PE-SR402FLJ Coax PE3C4908

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

Sales@Pasternack.com • Techsupport@Pasternack.com

© 2018 Pasternack Enterprises All Rights Reserved   PE3C4908 REV 1.1   4

RF Cable Assemblies Technical Data Sheet　　　　　　PE3C4908

How to Order

Part Number Configuration:　　　　　**PE3C4908**　　-　**xx**　　**uu**

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

Example:　　PE3C4908-12 = 12 inches long cable
PE3C4908-100cm = 100 cm long cable

Snap-On BMA Jack to SMA Male 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.
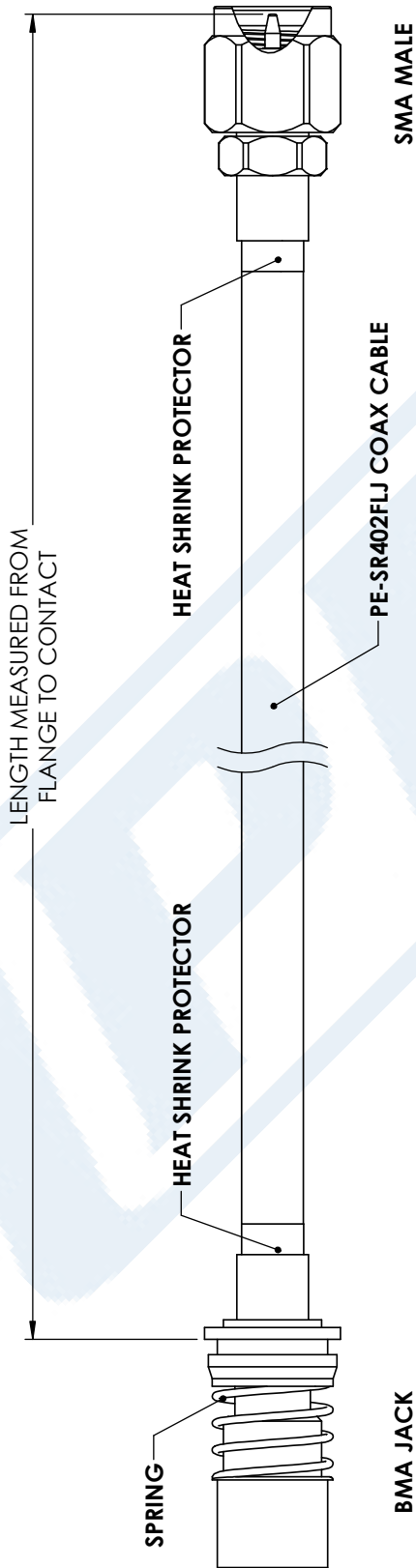
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Snap-On BMA Jack to SMA Male Cable Using PE-SR402FLJ Coax PE3C4908

URL: https://www.pasternack.com/bma-jack-sma-male-pe-sr402flj-cable-assembly-pe3c4908-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.

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

© 2018 Pasternack Enterprises All Rights Reserved　　　　　PE3C4908 REV 1.1　　　　　5

SMA MALE

HEAT SHRINK PROTECTOR

PE-SR402FLJ COAX CABLE

LENGTH MEASURED FROM
FLANGE TO CONTACT

HEAT SHRINK PROTECTOR

SPRING

BMA JACK

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

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

CAD FILE	12/22/17
SCALE N/A	
SIZE A	
CN2245	

DWG TITLE

PE3C4908

CAGE CODE 53919

PASTERNACK®
THE ENGINEER'S RF SOURCE

Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623

Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com