

N Female Bulkhead to SMA Male Right Angle Cable Using PE-SR402FLJ Coax



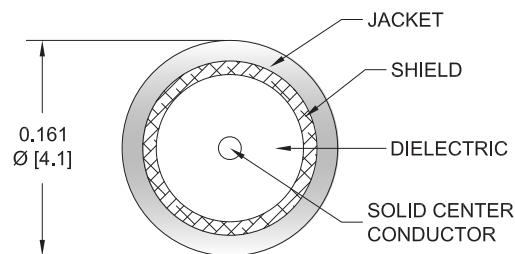
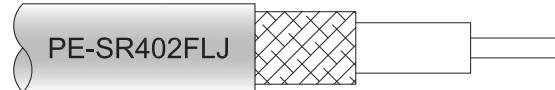
PE3W14151

Configuration

- Connector 1: N Female Bulkhead
- Connector 2: SMA Male Right Angle
- Cable Type: PE-SR402FLJ
- Coax Flex Type: Formable

Features

- Max Frequency 11 GHz
- Shielding Effectivity > 100 dB
- 70% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W14151 type N female bulkhead to SMA male right angle 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 type N to SMA cable assembly has a female to male gender configuration with 50 ohm formable PE-SR402FLJ coax. The PE3W14151 type N female to SMA male cable assembly operates to 11 GHz. The right angle SMA interface on the PE-SR402FLJ cable allows for easier connections in tight spaces. Our RF cable assembly with type N 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		11	GHz
VSWR			1.5:1	
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

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units MHz	Weight (lbs)
		Frequency	500	1000	2500	5000	11000		
PE3W14151	Custom Lengths Available	Insertion Loss (Typ.)	0.082	0.125	0.198	0.32	0.507	dB/ft	
			0.27	0.42	0.65	1.05	1.67		
PE3W14151-6	6 inch	Insertion Loss (Typ.)	0.35	0.37	0.4	0.46	0.56	dB	0.116
PE3W14151-9	9 inch	Insertion Loss (Typ.)	0.37	0.4	0.45	0.54	0.69	dB	0.123
PE3W14151-12	12 inch	Insertion Loss (Typ.)	0.39	0.43	0.5	0.62	0.81	dB	0.13
PE3W14151-18	18 inch	Insertion Loss (Typ.)	0.43	0.49	0.6	0.78	1.07	dB	0.145
PE3W14151-24	24 inch	Insertion Loss (Typ.)	0.47	0.55	0.7	0.94	1.32	dB	0.16

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: 0.2 dB

Base Weight: 0.13 pounds

Additional Weight per Inch: 0.00242 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.13 lbs [58.97 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]

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Connectors

Description	Connector 1	Connector 2
Type	N Female Bulkhead	SMA Male Right Angle
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Phosphor Bronze, Gold over Nickel	Brass, Gold
Contact Plating Specification		50 μ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Stainless Steel, Gold
Body Plating Specification		30 μ in minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 μ in minimum
Hex Size		5/16 inch
Torque		3 in-lbs 0.34 Nm

Environmental Specifications

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

Plotted and Other Data

Notes:

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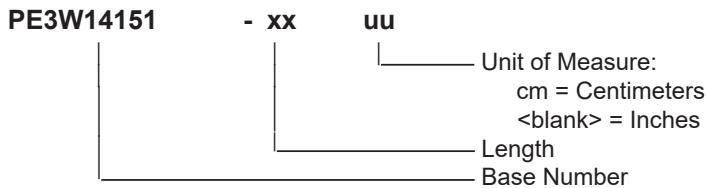


PE3W14151

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W14151-12 = 12 inches long cable
PE3W14151-100cm = 100 cm long cable

N Female Bulkhead to SMA Male Right Angle 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: [N Female Bulkhead to SMA Male Right Angle Cable Using PE-SR402FLJ Coax PE3W14151](#)

URL: <https://www.pasternack.com/n-female-bulkhead-to-sma-male-cable-using-pe-sr402flj-pe3w14151-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.

PE3W14151 CAD Drawing

N Female Bulkhead to SMA Male Right Angle Cable Using PE-SR402FLJ Coax

