

# N Male to N Female Bulkhead Cable 12 Inch Length Using PE-SR401AL Coax



### RF Cable Assemblies Technical Data Sheet

PE3993-12

# Configuration

• Connector 1: N Male

• Connector 2: N Female Bulkhead

Cable Type: PE-SR401AL-STRAIGHT

#### **Features**

- Max Frequency 18 GHz
- 69.5% Phase Velocity

# **Applications**

· General Purpose

Laboratory Use

### Description

Pasternack's PE3993-12 type N male to type N female bulkhead 12 inch cable using PE-SR401AL 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 type N to type N cable assembly has a male to female gender configuration with 50 ohm semi-rigid PE-SR401AL-STRAIGHT coax. The PE3993-12 type N male to type N female cable assembly operates to 18 GHz. 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		18	GHz
Velocity of Propagation		69.5		%
Capacitance		29.6 [97.11]		pF/ft [pF/m]
Dielectric Withstanding Voltage (AC)			7,500	Vrms

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.4	1	5	10	18	GHz
Insertion Loss (Typ.)	4.5	7.5	22	33	48	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to N Female Bulkhead Cable 12 Inch Length Using PE-SR401AL Coax PE3993-12

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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Power Handling (Max.)	962	661	265	174	100	W

### **Mechanical Specifications**

**Cable Assembly** 

 Length\*
 12 in [304.8 mm]

 Diameter
 0.827 in [21.01 mm]

 Weight
 0.272 lbs [123.38 g]

Cable

Cable Type PE-SR401AL-STRAIGHT Impedance 50 Ohms

Inner Conductor Type

Solid
Inner Conductor Material and Plating

Copper, Silver

Dielectric Type PTFE
Number of Shields 1
Shield Layer 1 Tinned Aluminum

Jacket Diameter 0.25 in [6.35 mm]

Connectors

Description	Connector 1	Connector 2  N Female Bulkhead	
Туре	N Male		
Specification	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification	30μ in. minimum	30μ in. minimum	
Dielectric Type	Teflon	Teflon	
Body Material and Plating	Brass, Gold	Brass, Nickel	
Body Plating Specification	3μ in. minimum	100μ in. minimum	
Coupling Nut Material and Plating	Brass, Nickel		
Coupling Nut Plating Specification	100μ in. minimum		

0.25 in [6.35 mm]

Mechanical Specification Notes:

One Time Minimum Bend Radius

Cable assemblies that are 60 inches or less use straight coax, greater than 60 inches use coiled coax

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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.



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Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

• Values at 25°C, sea level.

#### **How to Order**

Example: PE3993-12 = 12 inches long cable

PE3993-100cm = 100 cm long cable

N Male to N Female Bulkhead Cable 12 Inch Length Using PE-SR401AL 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 Male to N Female Bulkhead Cable 12 Inch Length Using PE-SR401AL Coax PE3993-12

URL: https://www.pasternack.com/n-male-n-female-pe-sr401al-cable-assembly-pe3993-12-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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