

## 3.5mm Male to N Male Cable Using PE-SR402FLJ Coax

### PE3W17831

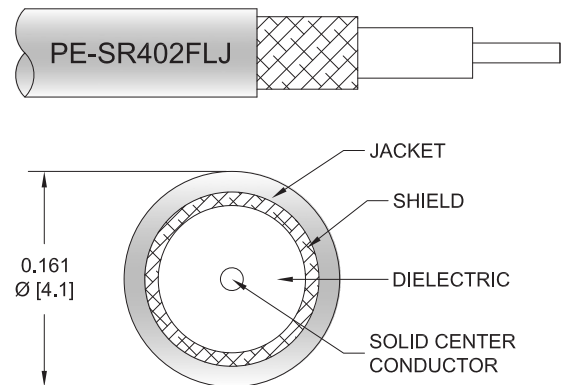


#### Configuration

- Connector 1: 3.5mm Male
- Connector 2: N Male
- 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 PE3W17831 3.5mm male to type N male 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 3.5mm to type N cable assembly has a male to male gender configuration with 50 ohm formable PE-SR402FLJ coax. The PE3W17831 3.5mm male to type N male cable assembly operates to 11 GHz.

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			1.4:1	
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	Weight (lbs)
		Frequency	500	1000	2500	5000	11000	MHz	
PE3W17831	Custom Lengths Available	Insertion Loss (Typ.)	0.082	0.125	0.198	0.32	0.506	dB/ft	
			0.27	0.42	0.65	1.05	1.67	dB/m	
PE3W17831-6	6 Inch	Insertion Loss (Typ.)	0.17	0.21	0.27	0.35	0.49	dB	0.086
PE3W17831-9	9 Inch	Insertion Loss (Typ.)	0.19	0.24	0.32	0.43	0.62	dB	0.094
PE3W17831-12	12 Inch	Insertion Loss (Typ.)	0.22	0.27	0.37	0.51	0.74	dB	0.102
PE3W17831-18	18 Inch	Insertion Loss (Typ.)	0.26	0.33	0.47	0.67	1	dB	0.119
PE3W17831-24	24 Inch	Insertion Loss (Typ.)	0.3	0.39	0.56	0.83	1.25	dB	0.135

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:  $0.04 * \sqrt{F(\text{GHz})}$  dB  
 Base Weight: 0.102 pounds  
 Additional Weight per Inch: 0.00267 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.102 lbs [46.27 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	3.5mm Male	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Brass, Gold over Nickel
Contact Plating Specification	50 µin minimum	
Dielectric Type	PCTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Brass, Nickel
Body Plating Specification	SAE-AMS-2700	
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Nickel
Coupling Nut Plating Specification	SAE-AMS-2700	
Hex Size	5/16 inch	
Torque	8 in-lbs 0.9 Nm	

#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

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### PE3W17831

#### Typical Performance Data

#### How to Order

Part Number Configuration: **PE3W17831**    **- xx**    **uu**

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

Length

Base Number

Example: PE3W17831-12 = 12 inches long cable  
PE3W17831-100cm = 100 cm long cable

3.5mm Male to N 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: [3.5mm Male to N Male Cable Using PE-SR402FLJ Coax PE3W17831](https://www.pasternack.com/3.5mm-male-to-n-male-cable-using-pe-sr402flj-pe3w17831-p.aspx)

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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.

PE3W17831 CAD Drawing
3.5mm Male to N Male Cable Using PE-SR402FLJ Coax

