

## 3.5mm Male to N Female Cable Using PE-SR402FL Coax

### PE3C10089



#### Configuration

- Connector 1: 3.5mm Male
- Connector 2: N Female
- Cable Type: PE-SR402FL
- Coax Flex Type: Formable

#### Features

- Max Frequency 11 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C10089 3.5mm male to type N female cable using PE-SR402FL 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 female gender configuration with 50 ohm formable PE-SR402FL coax. The PE3C10089 3.5mm male to type N female 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		69.5		%
RF Shielding	110			dB
Capacitance		29 [95.14]		pF/ft [pF/m]
DC Resistance Inner Conductor		7.8 [25.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.5 [18.04]		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	
PE3C10089	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.183	0.29	0.475	dB/ft	
			0.27	0.4	0.61	0.96	1.56	dB/m	
PE3C10089-6	6 Inch	Insertion Loss (Typ.)	0.17	0.2	0.26	0.34	0.48	dB	0.093
PE3C10089-9	9 Inch	Insertion Loss (Typ.)	0.19	0.23	0.31	0.41	0.59	dB	0.099
PE3C10089-12	12 Inch	Insertion Loss (Typ.)	0.21	0.26	0.35	0.48	0.71	dB	0.105
PE3C10089-18	18 Inch	Insertion Loss (Typ.)	0.25	0.32	0.44	0.63	0.95	dB	0.118
PE3C10089-24	24 Inch	Insertion Loss (Typ.)	0.29	0.38	0.53	0.77	1.19	dB	0.131

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:  $0.04 \times \sqrt{\text{FGHz}}$  dB  
 Base Weight: 0.105 pounds  
 Additional Weight per Inch: 0.00209 pounds

## Mechanical Specifications

### Cable Assembly

Width/Diameter: 0.5 in [12.7 mm]  
 Weight: 0.105 lbs [47.63 g]

### Cable

Cable Type: PE-SR402FL  
 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  
 Repeated Minimum Bend Radius: 0.625 in [15.88 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	3.5mm Male	N Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Phosphor Bronze, 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	
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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### PE3C10089

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C10089**

**- xx**

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

Length  
Base Number

Example: PE3C10089-12 = 12 inches long cable  
PE3C10089-100cm = 100 cm long cable

3.5mm Male to N Female Cable Using PE-SR402FL 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 Female Cable Using PE-SR402FL Coax PE3C10089](https://www.pasternack.com/3.5mm-male-to-n-female-cable-using-pe-sr402fl-pe3c10089-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.

PE3C10089 CAD Drawing
3.5mm Male to N Female Cable Using PE-SR402FL Coax

