

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



### PE3C10093

#### Configuration

- Connector 1: 3.5mm Female
- 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 PE3C10093 3.5mm female 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 female to female gender configuration with 50 ohm formable PE-SR402FL coax. The PE3C10093 3.5mm female 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	
PE3C10093	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	
PE3C10093-6	6 Inch	Insertion Loss (Typ.)	0.24	0.26	0.3	0.35	0.44	dB	0.093
PE3C10093-9	9 Inch	Insertion Loss (Typ.)	0.26	0.29	0.34	0.42	0.56	dB	0.099
PE3C10093-12	12 Inch	Insertion Loss (Typ.)	0.28	0.32	0.39	0.49	0.68	dB	0.105
PE3C10093-18	18 Inch	Insertion Loss (Typ.)	0.32	0.38	0.48	0.64	0.92	dB	0.118
PE3C10093-24	24 Inch	Insertion Loss (Typ.)	0.36	0.44	0.57	0.78	1.15	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:	0.1 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]

### Connectors

Description	Connector 1	Connector 2
Type	3.5mm Female	N Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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	

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#### Environmental Specifications

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3C10093 - xx uu**

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

Example: PE3C10093-12 = 12 inches long cable  
PE3C10093-100cm = 100 cm long cable

3.5mm Female 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 Female to N Female Cable Using PE-SR402FL Coax PE3C10093](#)

URL: <https://www.pasternack.com/3.5mm-female-to-n-female-cable-using-pe-sr402fl-pe3c10093-p.aspx>

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PE3C10093 CAD Drawing
3.5mm Female to N Female Cable Using PE-SR402FL Coax

