



### PE3C10089

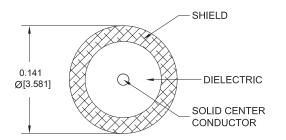
#### Configuration

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





## PE3C10089

Part Number	Longth	Description	F1	F2	F3	F4	F5	Units	Moight (lbs)
Part Number Length	Length	Frequency	500	1000	2500	5000	11000	MHz	Weight (lbs)
PE3C10089	Custom Lengths	Insertion Loss (Typ.)	0.08	0.12	0.183	0.29	0.475	dB/ft	
1 13010083	Available	111361 tio11 to33 (1 yp.)	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\*SQRT(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]





# PE3C10089

#### **Connectors**

Description	Connector 1	Connector 2			
Туре	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:





## PE3C10089

#### **Typical Performance Data**

#### **How to Order**

Part Number Configuration:

PE3C10089 - xx uu

Unit of Measure:
cm = Centimeters
<br/>
<br/>
<br/>
<br/>
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

URL: https://www.pasternack.com/3.5mm-male-to-n-female-cable-using-pe-sr402fl-pe3c10089-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 impliment 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.

