

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



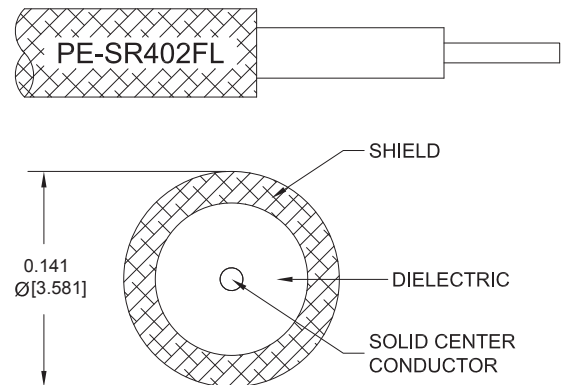
### PE3C10080

#### Configuration

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

#### Features

- Max Frequency 6 GHz
- Shielding Effectivity > 110 dB
- 69.5% Phase Velocity



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3C10080 3.5mm female to TNC male 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 TNC cable assembly has a female to male gender configuration with 50 ohm formable PE-SR402FL coax. The PE3C10080 3.5mm female to TNC male cable assembly operates to 6 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      |             | 6       | 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    | Units | Weight (lbs) |
|--------------|--------------------------|-----------------------|------|------|-------|-------|-------|--------------|
|              |                          | Frequency             | 500  | 1000 | 2500  | 6000  | MHz   |              |
| PE3C10080    | Custom Lengths Available | Insertion Loss (Typ.) | 0.08 | 0.12 | 0.183 | 0.322 | dB/ft |              |
|              |                          |                       | 0.27 | 0.4  | 0.61  | 1.06  | dB/m  |              |
| PE3C10080-6  | 6 Inch                   | Insertion Loss (Typ.) | 0.24 | 0.26 | 0.3   | 0.37  | dB    | 0.054        |
| PE3C10080-9  | 9 Inch                   | Insertion Loss (Typ.) | 0.26 | 0.29 | 0.34  | 0.45  | dB    | 0.06         |
| PE3C10080-12 | 12 Inch                  | Insertion Loss (Typ.) | 0.28 | 0.32 | 0.39  | 0.53  | dB    | 0.066        |
| PE3C10080-18 | 18 Inch                  | Insertion Loss (Typ.) | 0.32 | 0.38 | 0.48  | 0.69  | dB    | 0.079        |
| PE3C10080-24 | 24 Inch                  | Insertion Loss (Typ.) | 0.36 | 0.44 | 0.57  | 0.85  | dB    | 0.092        |

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:                | 0.066 pounds   |
| Additional Weight per Inch: | 0.00209 pounds |

### Mechanical Specifications

#### Cable Assembly

|                |                     |
|----------------|---------------------|
| Width/Diameter | 0.5 in [12.7 mm]    |
| Weight         | 0.066 lbs [29.94 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                       | TNC Male                |
| Impedance                         | 50 Ohms                            | 50 Ohms                 |
| Configuration                     | Straight                           | Straight                |
| 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 |                                    | Brass, Nickel           |

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### PE3C10080

#### Environmental Specifications

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

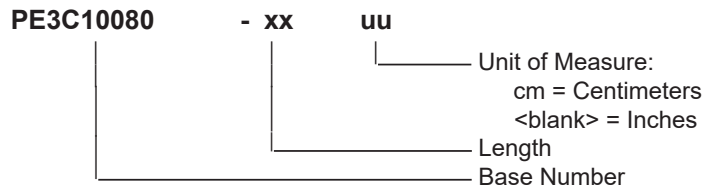
#### Plotted and Other Data

Notes:

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE3C10080-12 = 12 inches long cable  
PE3C10080-100cm = 100 cm long cable

3.5mm Female to TNC Male 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 TNC Male Cable Using PE-SR402FL Coax PE3C10080](#)

URL: <https://www.pasternack.com/3.5mm-female-to-tnc-male-cable-using-pe-sr402fl-pe3c10080-p.aspx>

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