

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

PE3C10078

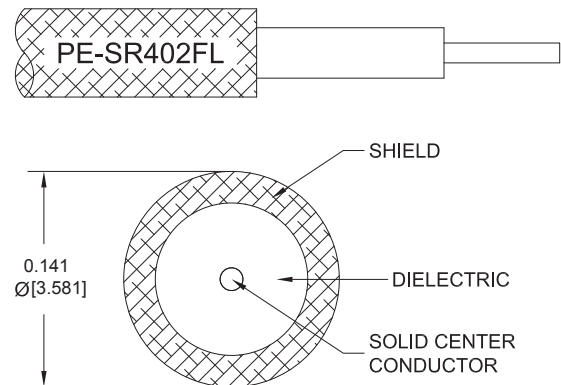


Configuration

- Connector 1: 3.5mm Male
- Connector 2: TNC Female
- 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 PE3C10078 3.5mm male to TNC 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 TNC cable assembly has a male to female gender configuration with 50 ohm formable PE-SR402FL coax. The PE3C10078 3.5mm male to TNC female 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	
PE3C10078	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	
PE3C10078-6	6 Inch	Insertion Loss (Typ.)	0.17	0.2	0.26	0.36	dB	0.104
PE3C10078-9	9 Inch	Insertion Loss (Typ.)	0.19	0.23	0.31	0.44	dB	0.11
PE3C10078-12	12 Inch	Insertion Loss (Typ.)	0.21	0.26	0.35	0.52	dB	0.116
PE3C10078-18	18 Inch	Insertion Loss (Typ.)	0.25	0.32	0.44	0.69	dB	0.129
PE3C10078-24	24 Inch	Insertion Loss (Typ.)	0.29	0.38	0.53	0.85	dB	0.142

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: $0.04 \times \text{SQRT}(\text{FGHz})$ dB
 Base Weight: 0.116 pounds
 Additional Weight per Inch: 0.00209 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.116 lbs [52.62 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	TNC Female
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, 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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PE3C10078

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10078

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10078-12 = 12 inches long cable
PE3C10078-100cm = 100 cm long cable

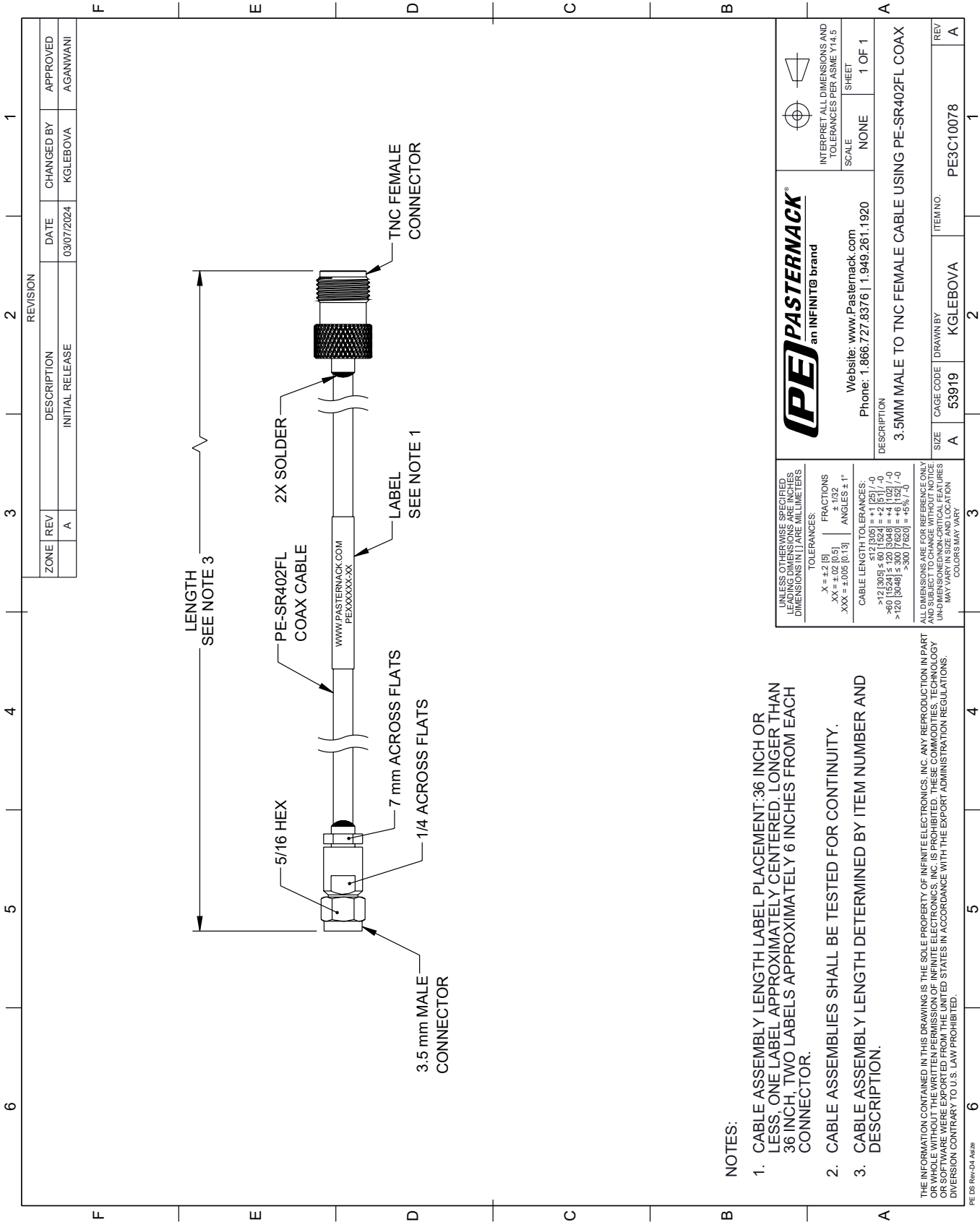
3.5mm Male to TNC Female Cable Using PE-SR402FL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 TNC Female Cable Using PE-SR402FL Coax PE3C10078](https://www.pasternack.com/3.5mm-male-to-tnc-female-cable-using-pe-sr402fl-pe3c10078-p.aspx)

URL: <https://www.pasternack.com/3.5mm-male-to-tnc-female-cable-using-pe-sr402fl-pe3c10078-p.aspx>

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PE3C10078 CAD Drawing
3.5mm Male to TNC Female Cable Using PE-SR402FL Coax



- NOTES:
- 1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 - 2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AND DESCRIPTION.

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