

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



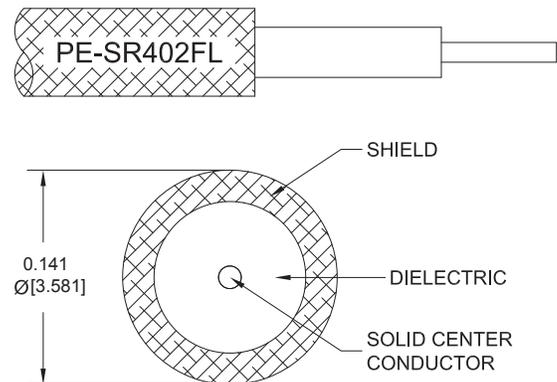
PE3C10076

Configuration

- Connector 1: 3.5mm Male
- 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 PE3C10076 3.5mm male 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 male to male gender configuration with 50 ohm formable PE-SR402FL coax. The PE3C10076 3.5mm male 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	
PE3C10076	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	
PE3C10076-6	6 Inch	Insertion Loss (Typ.)	0.17	0.2	0.26	0.36	dB	0.054
PE3C10076-9	9 Inch	Insertion Loss (Typ.)	0.19	0.23	0.31	0.44	dB	0.06
PE3C10076-12	12 Inch	Insertion Loss (Typ.)	0.21	0.26	0.35	0.52	dB	0.066
PE3C10076-18	18 Inch	Insertion Loss (Typ.)	0.25	0.32	0.44	0.69	dB	0.079
PE3C10076-24	24 Inch	Insertion Loss (Typ.)	0.29	0.38	0.53	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:	$0.04 * \text{SQRT}(\text{FGHz})$ 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]

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Connectors

Description	Connector 1	Connector 2
Type	3.5mm Male	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
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	Passivated Stainless Steel	Brass, Nickel
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:

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



PE3C10076

Typical Performance Data

How to Order

Part Number Configuration:

PE3C10076

- xx

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C10076-12 = 12 inches long cable
PE3C10076-100cm = 100 cm long cable

3.5mm Male 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.

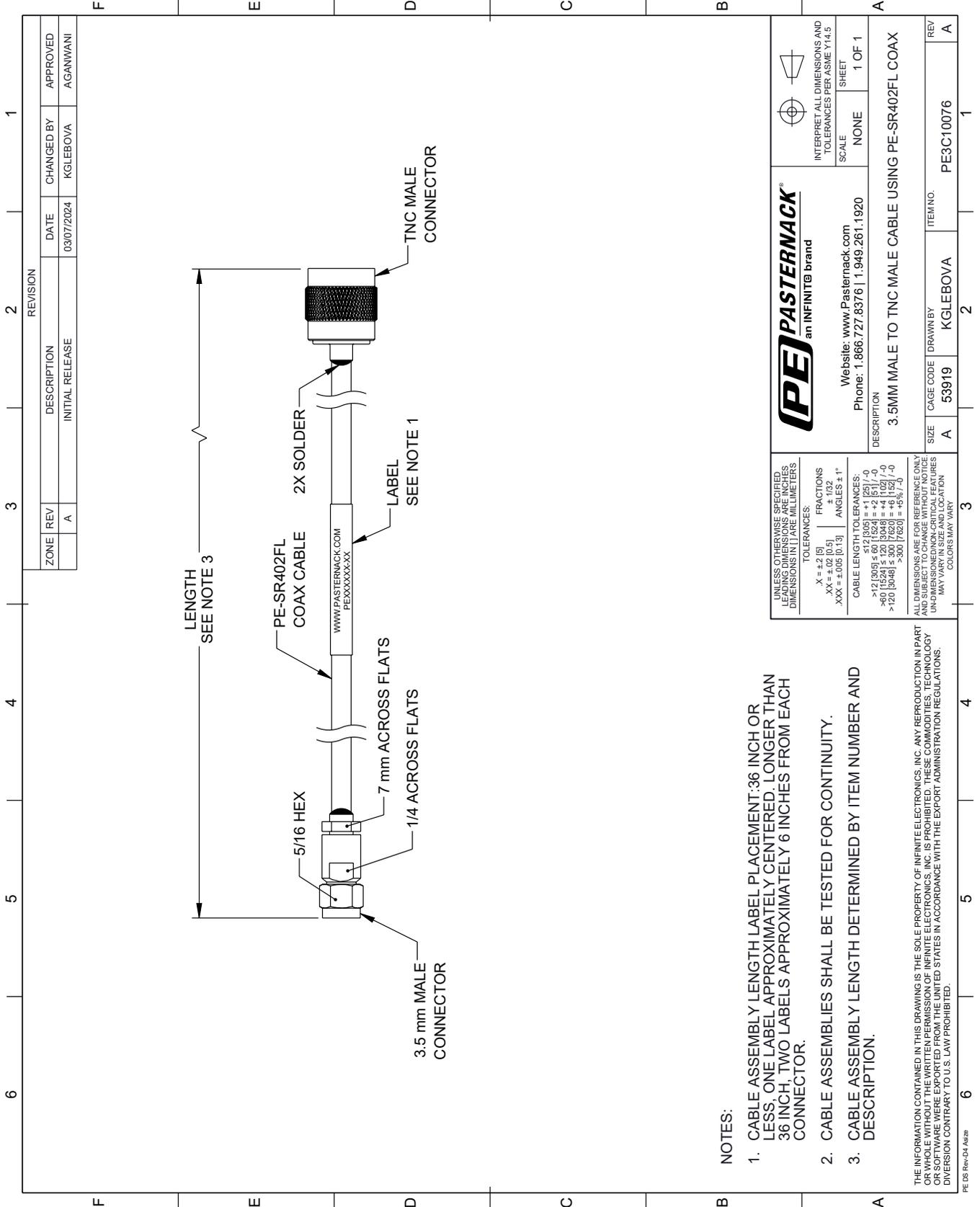
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male to TNC Male Cable Using PE-SR402FL Coax PE3C10076](https://www.pasternack.com/3.5mm-male-to-tnc-male-cable-using-pe-sr402fl-pe3c10076-p.aspx)

URL: <https://www.pasternack.com/3.5mm-male-to-tnc-male-cable-using-pe-sr402fl-pe3c10076-p.aspx>

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PE3C10076 CAD Drawing

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



REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	03/07/2024	KGLEBOVA	AGANWANI

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: 3.5MM MALE TO TNC MALE CABLE USING PE-SR402FL COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE3C10076

REV A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS

TOLERANCES:

X = ±.2 (5) FRACTIONS ±.132 ANGLES ± 1°
 .XX = ±.02 (0.51) ±.132 ANGLES ± 1°
 .XXX = ±.005 (0.13) ±.132 ANGLES ± 1°

CABLE LENGTH TOLERANCES:

>12 (305) ≤ 60 (1524) = ±.1 (2.5) / -0
 >60 (1524) ≤ 120 (3048) = ±.4 (10.2) / -0
 >120 (3048) ≤ 300 (7620) = ±.6 (15.2) / -0
 >300 (7620) = ±.8 (20.3) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, DIMENSIONS IN MILLIMETERS. COLORS MAY VARY.

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PE DS Rev-04 Add2

- NOTES:
- 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.
 - CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM NUMBER AND DESCRIPTION.