



TNC Male to 3.5mm Male Cable Using PE-SR402AL Coax

TECHNICAL DATA SHEET

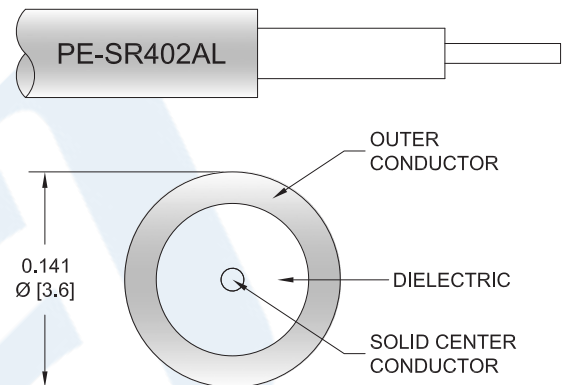
PE3W06976

Configuration

- Connector 1: TNC Male
- Connector 2: 3.5mm Male
- Cable Type: PE-SR402AL
- Coax Flex Type: Semi-Rigid

Features

- Max Frequency 20 GHz



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W06976 TNC male to 3.5mm male cable using PE-SR402AL coax is part of our full line of RF components available for same-day shipping. Pasternack's semi-rigid RF cable assemblies are ideal for high performance applications and can be formed, using proper tooling, to the routing pattern required. This Pasternack TNC to 3.5mm cable assembly has a male to male gender configuration with 50 ohm semi-rigid PE-SR402AL coax. The PE3W06976 TNC male to 3.5mm male cable assembly operates to 20 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to 3.5mm Male Cable Using PE-SR402AL Coax PE3W06976](#)



TNC Male to 3.5mm Male Cable Using PE-SR402AL Coax

TECHNICAL DATA SHEET

PE3W06976

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		20	GHz

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	#####	MHz	
PE3W06976	Custom Lengths Available	Insertion Loss (Typ.)	0.13	0.16	0.25	0.42	0.71	dB/ft	
			0.43	0.53	0.83	1.38	2.33	dB/m	
PE3W06976-6	6 inch	Insertion Loss (Typ.)	0.27	0.28	0.33	0.41	0.56	dB	0.077
PE3W06976-12	12 inch	Insertion Loss (Typ.)	0.33	0.36	0.45	0.62	0.91	dB	0.085
PE3W06976-24	24 inch	Insertion Loss (Typ.)	0.46	0.52	0.7	1.04	1.62	dB	0.103
PE3W06976-36	36 inch	Insertion Loss (Typ.)	0.59	0.68	0.95	1.46	2.33	dB	0.12
PE3W06976-48	48 inch	Insertion Loss (Typ.)	0.72	0.84	1.2	1.88	3.04	dB	0.137

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: 0.085 pounds

Additional Weight per Inch: 0.00144 pounds

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Weight 0.085 lbs [38.56 g]

Cable

Cable Type PE-SR402AL
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 1
 Outer Conductor Material and Plating Tinned Aluminum

Repeated Minimum Bend Radius 0.15 in [3.81 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to 3.5mm Male Cable Using PE-SR402AL Coax PE3W06976](#)



TNC Male to 3.5mm Male Cable Using PE-SR402AL Coax

TECHNICAL DATA SHEET

PE3W06976

Connectors

Description	Connector 1	Connector 2
Type	TNC Male Threaded	3.5mm Male Threaded
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating		Beryllium Copper, Gold over Nickel
Contact Plating Specification		50 µin minimum
Dielectric Type		PCTFE
Body Material and Plating	Brass, Nickel	Passivated Stainless Steel
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]

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

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to 3.5mm Male Cable Using PE-SR402AL Coax PE3W06976](#)



TNC Male to 3.5mm Male Cable Using PE-SR402AL Coax

TECHNICAL DATA SHEET

PE3W06976

How to Order

Part Number Configuration:

PE3W06976

- **xx**

uu

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

Example: PE3W06976-12 = 12 inches long cable
PE3W06976-100cm = 100 cm long cable

TNC Male to 3.5mm Male Cable Using PE-SR402AL 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: [TNC Male to 3.5mm Male Cable Using PE-SR402AL Coax PE3W06976](https://www.pasternack.com/tnc-male-3.5mm-male-pe-sr402al-cable-assembly-pe3w06976-p.aspx)

URL: <https://www.pasternack.com/tnc-male-3.5mm-male-pe-sr402al-cable-assembly-pe3w06976-p.aspx>

The information contained in 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 implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3W06976 CAD Drawing

TNC Male to 3.5mm Male Cable Using PE-SR402AL Coax

