

TNC Male Right Angle to SMA Female Bulkhead Cable Using PE-SR402FL Coax



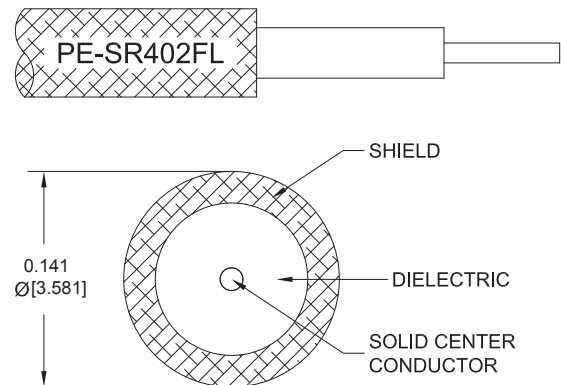
PE3W04207

Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: SMA Female Bulkhead
- 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 PE3W04207 TNC male right angle to SMA female bulkhead 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 TNC to SMA cable assembly has a male to female gender configuration with 50 ohm formable PE-SR402FL coax. The PE3W04207 TNC male to SMA female cable assembly operates to 6 GHz. The right angle TNC interface on the PE-SR402FL cable allows for easier connections in tight spaces. Our RF cable assembly with SMA bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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

TNC Male Right Angle to SMA Female Bulkhead Cable Using PE-SR402FL Coax



PE3W04207

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	6000	MHz	
PE3W04207	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.12	0.184	0.322	dB/ft	
			0.27	0.4	0.61	1.06	dB/m	
PE3W04207-6	6 inch	Insertion Loss (Typ.)	0.34	0.36	0.4	0.47	dB	0.067
PE3W04207-9	9 inch	Insertion Loss (Typ.)	0.36	0.39	0.44	0.55	dB	0.073
PE3W04207-12	12 inch	Insertion Loss (Typ.)	0.38	0.42	0.49	0.63	dB	0.079
PE3W04207-18	18 inch	Insertion Loss (Typ.)	0.42	0.48	0.58	0.79	dB	0.092
PE3W04207-24	24 inch	Insertion Loss (Typ.)	0.46	0.54	0.67	0.95	dB	0.105

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:	0.2 dB
Base Weight:	0.079 pounds
Additional Weight per Inch:	0.00209 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.079 lbs [35.83 g]

Cable

Cable Type	PE-SR402FL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Repeated Minimum Bend Radius	0.625 in [15.88 mm]

TNC Male Right Angle to SMA Female Bulkhead
Cable Using PE-SR402FL Coax



PE3W04207

Connectors

Description	Connector 1	Connector 2
Type	TNC Male Right Angle	SMA Female Bulkhead
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification		50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Stainless Steel, Gold
Body Plating Specification		30 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	

Environmental Specifications

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

Plotted and Other Data

Notes:

TNC Male Right Angle to SMA Female Bulkhead Cable Using PE-SR402FL Coax



PE3W04207

Typical Performance Data

How to Order

Part Number Configuration: **PE3W04207** **- xx** **uu**

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE3W04207-12 = 12 inches long cable
PE3W04207-100cm = 100 cm long cable

TNC Male Right Angle to SMA Female Bulkhead 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: [TNC Male Right Angle to SMA Female Bulkhead Cable Using PE-SR402FL Coax PE3W04207](#)

URL: <https://www.pasternack.com/tnc-male-right-angle-to-sma-female-bulkhead-cable-using-pe-sr402fl-pe3w04207-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 implement 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.

PE3W04207 CAD Drawing
TNC Male Right Angle to SMA Female Bulkhead Cable Using PE-SR402FL Coax

