

## TNC Male to TNC Male Low Loss Cable Using PE-P300LL Coax, LF Solder



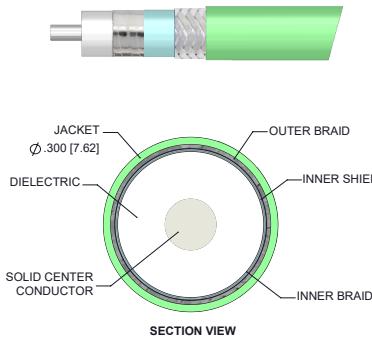
### PE334LF

#### Configuration

- Connector 1: TNC Male
- Connector 2: TNC Male
- Cable Type: PE-P300LL
- Coax Flex Type: Flexible

#### Features

- Max Frequency 18 GHz
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket
- 500 Mating Cycles



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE334LF TNC male to TNC male cable using PE-P300LL coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack TNC to TNC cable assembly has a male to male gender configuration with 50 ohm flexible PE-P300LL coax. The PE334LF TNC male to TNC male cable assembly operates to 18 GHz. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

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		18	GHz
VSWR			1.4:1	
Velocity of Propagation	83			%
Capacitance	25 [82.02]			pF/ft [pF/m]

#### Specifications by Frequency

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### PE334LF

Part Number	Length	Description	F1	F2	F3	F4	F5	Units MHz	Weight (lbs)
			Frequency	1000	2000	4500	9000		
PE334LF	Custom Lengths Available	Insertion Loss (Typ.)	0.051	0.073	0.112	0.163	0.241	dB/ft	
			0.17	0.24	0.37	0.54	0.8	dB/m	
PE334LF-12	12 inch	Insertion Loss (Typ.)	0.26	0.28	0.32	0.37	0.45	dB	0.231
PE334LF-24	24 inch	Insertion Loss (Typ.)	0.31	0.35	0.43	0.53	0.69	dB	0.309
PE334LF-36	36 inch	Insertion Loss (Typ.)	0.36	0.42	0.54	0.69	0.93	dB	0.386
PE334LF-48	60 inch	Insertion Loss (Typ.)	0.46	0.57	0.76	1.02	1.41	dB	0.463
PE334LF-60	72 inch	Insertion Loss (Typ.)	0.51	0.64	0.88	1.18	1.65	dB	0.54

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: 0.231 pounds

Additional Weight per Inch: 0.00642 pounds

### Mechanical Specifications

#### Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.231 lbs [104.78 g]

#### Cable

Cable Type	PE-P300LL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	3
Shield Layer 1	Silver Plated Copper Tape
Shield Layer 2	Aluminum Polyester
Shield Layer 3	Silver Plated Copper Wire
Jacket Material	FEP, Green
Jacket Diameter	0.3 in [7.62 mm]
Repeated Minimum Bend Radius	1.5 in [38.1 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Male
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Contact Plating Specification	50 $\mu$ in minimum	50 $\mu$ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700
Hex Size	9/16 inch	9/16 inch
Torque	19 in-lbs 2.15 Nm	19 in-lbs 2.15 Nm

#### Environmental Specifications

Operating Range Temperature -55 to +165 deg C

#### Compliance Certifications

(see product page for current document)

#### Plotted and Other Data

Notes:

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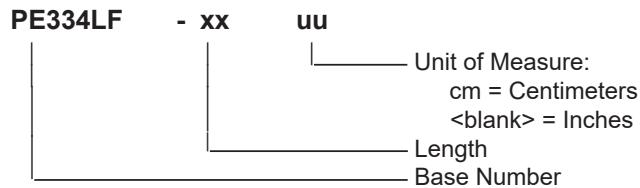


### PE334LF

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE334LF-12 = 12 inches long cable  
PE334LF-100cm = 100 cm long cable

TNC Male to TNC Male Low Loss Cable Using PE-P300LL Coax, LF Solder 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 TNC Male Low Loss Cable Using PE-P300LL Coax, LF Solder PE334LF](#)

URL: <https://www.pasternack.com/tnc-male-to-tnc-male-low-loss-cable-using-pe-p300ll-lf-solder-pe334lf-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.

# PE334LF CAD Drawing

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