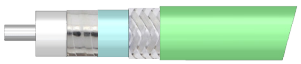
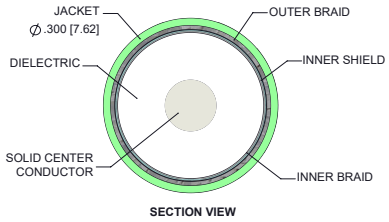
TNC Male to SMA Male Right Angle Low Loss Cable Using PE-P300LL Coax, LF Solder

PE3C1617LF

Configuration

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





Features

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

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1617LF TNC male to SMA male right angle 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible PE-P300LL coax. The PE3C1617LF TNC male to SMA male cable assembly operates to 18 GHz. The right angle SMA interface on the PE-P300LL cable allows for easier connections in tight spaces. 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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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	1000	2000	4500	9000	18000	MHz	
PE3C1617LF	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	
PE3C1617LF-12	12 inch	Insertion Loss (Typ.)	0.36	0.38	0.42	0.47	0.55	dB	0.214
PE3C1617LF-24	24 inch	Insertion Loss (Typ.)	0.41	0.45	0.53	0.63	0.79	dB	0.292
PE3C1617LF-36	36 inch	Insertion Loss (Typ.)	0.46	0.52	0.64	0.79	1.03	dB	0.369
PE3C1617LF-48	60 inch	Insertion Loss (Typ.)	0.51	0.6	0.75	0.96	1.27	dB	0.446
PE3C1617LF-60	72 inch	Insertion Loss (Typ.)	0.56	0.67	0.86	1.12	1.51	dB	0.523

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:	0.214	pounds
Additional Weight per Inch:	0.00642	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.214 lbs [97.07 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	SMA Male Right Angle
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Mating Cycles	500	
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold
Contact Plating Specification	50 µin minimum	ASTM-B488 50 µin
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	5/16 Inch
Torque	19 in-lbs 2.15 Nm	
Seal Gasket Material		Silicone

Environmental Specifications

Operating Range Temperature	-55 to +160 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

+1 (866) 558-2786 | sales@pasternack.com | pasternack.com

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Typical Performance Data

How to Order

Part Number Configuration: **PE3C1617LF - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C1617LF — Base Number

Example: PE3C1617LF-12 = 12 inches long cable
PE3C1617LF-100cm = 100 cm long cable

TNC Male to SMA Male Right Angle 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 SMA Male Right Angle Low Loss Cable Using PE-P300LL Coax, LF Solder PE3C1617LF

URL: https://www.pasternack.com/tnc-male-to-sma-male-low-loss-cable-using-pe-p300ll-lf-solder-pe3c1617lf-p.aspx

PE3C1617LF CAD Drawing

TNC Male to SMA Male Right Angle Low Loss Cable Using PE-P300LL Coax, LF Solder