



RF Cable Assemblies Technical Data Sheet

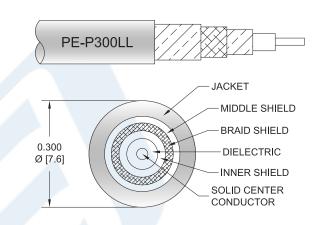
PE3C1617

Configuration

- · Connector 1: SMA Male Right Angle
- Connector 2: TNC Male
- Cable Type: PE-P300LL

Features

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.40:1 to 18 GHz
- · Minimum Bend Radius of 1.5 inches
- Operating Temperature range of -55 to +125 °C
- ROHS and REACH Compliant
- · Same day shipment of custom lengths
- 100% Continuity and RF tested



Description

The PE3C1617 high performance test cable's 0.3 inch diameter and 83% phase velocity offer very low loss performance up to 18 GHz. The durable stainless steel connectors and FEP jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. The series is offered with Type N, TNC, and SMA connectors all rated to 18 GHz. A heavy Duty boot provides improved strain relief and adds to the durability of the cable assemblies. These cable assemblies are built using a double shielded flexible cable, providing excellent shielding effectiveness of greater than 95 dB. All PE3C1617 cable assemblies are 100% Continuity and RF tested to published specifications. Custom lengths are built to order and shipped same day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
RF Shielding	95			dB
Capacitance		25 [82.02]		pF/ft [pF/m]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle to TNC Male Low Loss Test Cable Using PE-P300LL Coax, RoHS PE3C1617

ISO 9001 : 2008 Registered

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.06	0.08	0.12	0.18	0.26	dB/ft
	[0.20]	[0.26]	[0.39]	[0.59]	[0.85]	[dB/m]
Insertion Loss (Typ.)	0.05	0.07	0.1	0.15	0.22	dB/ft
	[0.16]	[0.23]	[0.33]	[0.49]	[0.72]	[dB/m]
Power Handling (Max.)	1,800	1,200	900	650	400	Watts

Electrical Specification Notes:

Power handling values are calculated based on Cable properties. Power handling will vary based on the actual VSWR of the cable assembly. Insertion Loss does not include the loss of the connectors, insertion loss is estimated as .1dB per connector.

Mechanical Specifications

Cable Assembly

0.78 in [19.81 mm] Diameter Weight 0.142 lbs [64.41 g]

Cable

PE-P300LL Cable Type Impedance 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper, Silver Dielectric Type **PTFE**

Number of Shields 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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PE3C1617 REV 1.0







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Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male Right Angle	TNC Male	
Specification	MIL-STD-348	MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold over Nickel	
Contact Plating Specification	ASTM-B488 50μ In.	50 μin minimum	
Dielectric Type	PTFE	PTFE	
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700	
Hex Size	5/16 Inch	9/16 inch	
Torque	8 in-lbs [0.9 Nm]	19 in-lbs [2.15 Nm]	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel	
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2700	

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

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^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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PE3C1617

How to Order



Example: PE3C1617-12 = 12 inches long cable

PE3C1617-100cm = 100 cm long cable

SMA Male Right Angle to TNC Male Low Loss Test Cable Using PE-P300LL Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/sma-male-tnc-male-pe-p300ll-cable-assembly-pe3c1617-p.aspx

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