



## SMA Male to TNC Male Low Loss Test Cable 48 Inch Length Using PE-P300LL Coax, RoHS

### RF Cable Assemblies Technical Data Sheet

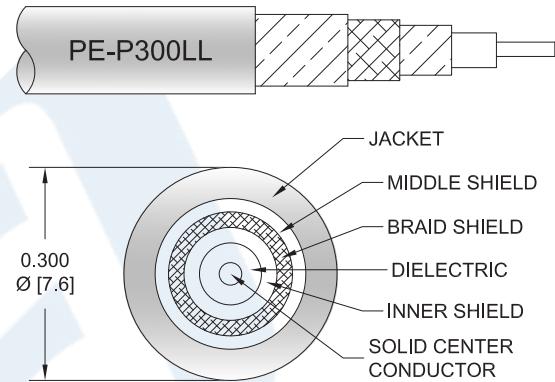
PE338-48

#### Configuration

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

#### Features

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.35:1 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 PE338 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 PE338 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			1.35:1	
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 to TNC Male Low Loss Test Cable 48 Inch Length Using PE-P300LL Coax, RoHS PE338-48](#)



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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.)	0.44	0.52	0.68	0.92	1.24	dB
Insertion Loss (Typ.)	0.4	0.48	0.6	0.8	1.08	dB
Power Handling (Max.)	1,800	1,200	900	650	400	Watts

#### Mechanical Specifications

##### Cable Assembly

Length\*  
Diameter

48 in [121.92 cm]  
0.625 in [15.88 mm]

##### Cable

Cable Type  
Impedance  
Inner Conductor Type  
Inner Conductor Material and Plating  
Dielectric Type  
Number of Shields  
Shield Layer 1  
Shield Layer 2  
Shield Layer 3  
Jacket Material  
Jacket Diameter

PE-P300LL  
50 Ohms  
Solid  
Copper, Silver  
PTFE  
3  
Silver Plated Copper Tape  
Aluminum Polyester  
Silver Plated Copper Wire  
FEP, Green  
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	SMA Male	TNC Male
Specification	MIL-STD-348B	MIL-STD-348
Impedance	50 Ohms	50 Ohms
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
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	7 in-lbs [0.79 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:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm$  3/8", whichever is greater.

#### 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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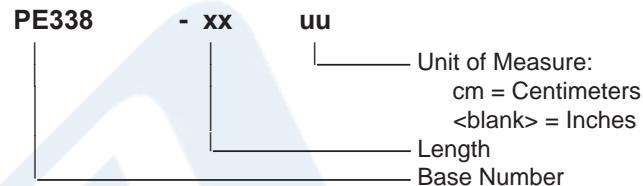
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#### How to Order

Part Number Configuration:



Example: PE338-12 = 12 inches long cable  
PE338-100cm = 100 cm long cable

SMA Male to TNC Male Low Loss Test Cable 48 Inch Length 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Male Low Loss Test Cable 48 Inch Length Using PE-P300LL Coax, RoHS PE338-48](#)

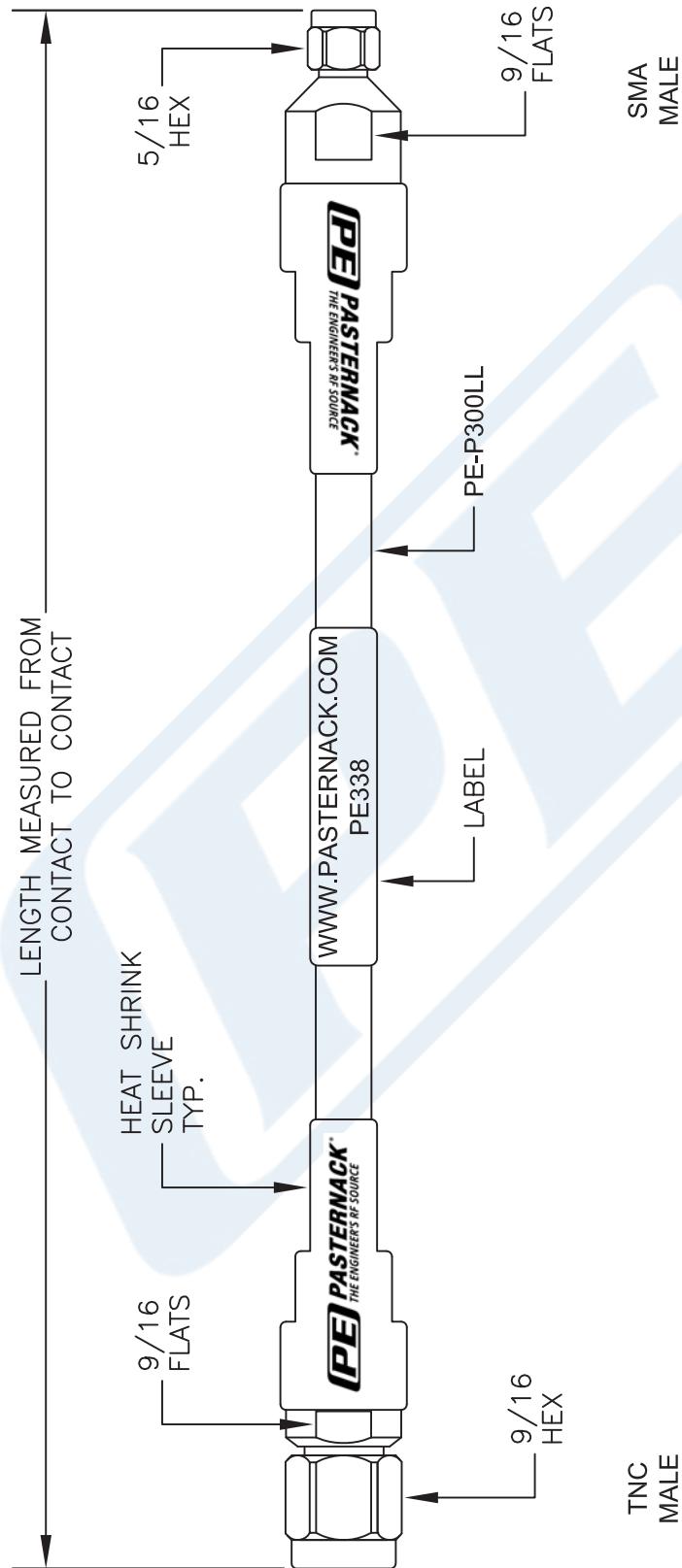
URL: <https://www.pasternack.com/sma-male-tnc-male-pe-p300ll-cable-assembly-pe338-48-p.aspx>

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.

# PE338-48 CAD Drawing

SMA Male to TNC Male Low Loss Test Cable 48 Inch

Length Using PE-P300LL Coax, RoHS



NOTE:  
LABEL FOR CABLE LENGTHS 48" OR SHORTER TO BE CENTERED, 48" OR LONGER WILL BE 12" AWAY FROM CONNECTOR.

**PASTERNACK**  
THE ENGINEER'S RF SOURCE  
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DWG TITLE	PE338
FSCM NO. 53919	CAD FILE 062116 SCALE N/A SIZE A 2233

NOTES:  
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  
3. DIMENSIONS ARE IN INCHES (mm).  
4. LENGTH TOLERANCE IS  $\pm 1.5\%$  OR 3/8", WHICHEVER IS GREATER.