



## **RF Cable Assemblies Technical Data Sheet**

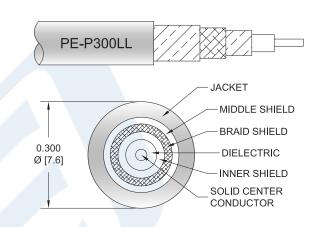
### PE3C3252-200CM

## Configuration

Connector 1: SMA MaleConnector 2: N FemaleCable 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 Compliant
- · Same day shipment of custom lengths
- 100% Continuity and RF tested



#### Description

The PE3C3252 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 PE3C3252 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 to N Female Low Loss Test Cable 200 cm Length Using PE-P300LL Coax, RoHS PE3C3252-200CM

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.)	0.6	0.72	0.98	1.37	1.9	dB
Insertion Loss (Typ.)	0.53	0.66	0.85	1.18	1.63	dB
Power Handling (Max.)	1,800	1,200	900	650	400	Watts

### **Mechanical Specifications**

**Cable Assembly** 

Length\* 78.74 in [200 cm]
Diameter 0.875 in [22.23 mm]

Cable

Cable Type PE-P300LL
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Silve

Inner Conductor Material and Plating

Dielectric Type

Number of Shields

Copper, Silver

PTFE

3

Shield Layer 1 Silver Plated Copper Tape
Shield Layer 2 Aluminum Polyester
Shield Layer 3 Silver Plated Copper Wire

Jacket MaterialFEP, GreenJacket Diameter0.3 in [7.62 mm]

Repeated Minimum Bend Radius 1.5 in [38.1 mm]

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#### **Connectors**

Description	Connector 1	Connector 2		
Туре	SMA Male	N Female		
Specification	MIL-STD-348	MIL-STD-348		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Specification	ASTM-B488 50μ ln.	ASTM-B488 50µ in. minimum		
Dielectric Type	PTFE	PEI		
Outer Conductor Material and Plating		Passivated Stainless Steel		
Outer Conductor Plating Specification		SAE-AMS-2700		
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			
Coupling Nut Plating Specification	SAE-AMS-2700			
Hex Size	5/16 Inch			
Torque	8 in-lbs [0.9 Nm]			

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:

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<sup>\*</sup>All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.





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### PE3C3252-200CM

#### **How to Order**



Example: PE3C3252-12 = 12 inches long cable PE3C3252-100cm = 100 cm long cable

SMA Male to N Female Low Loss Test Cable 200 cm 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 N Female Low Loss Test Cable 200 cm Length Using PE-P300LL Coax, RoHS PE3C3252-200CM

URL: https://www.pasternack.com/sma-male-n-female-pe-p300ll-cable-assembly-pe3c3252-200cm-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.



# PE3C3252-200CM CAD Drawing

SMA Male to N Female Low Loss Test Cable 200 cm Length Using PE-P300LL Coax, RoHS

