PASTERNACK®
THE ENGINEER'S RF SOURCE



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

TECHNICAL DATA SHEET PE333-48

The PE330 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 PE330 cable assemblies are 100% Continuity, Hi-POT, and RF tested to published specifications. Custom lengths are built to order and shipped same day.

- 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, Hi-Pot, and RF tested

Configuration

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

Electrical Specifications

Frequency Range	DC to 18 GHz
Impedance	50 Ohms
Maximum VSWR	1.35:1
Velocity of Propagation	83 %
RF Shielding	95 dB

Typical Performance by Frequency

Frequency 1

Frequency	400 MHz
Insertion Loss	0 dB
Power Handling, KWatts	2.9

Frequency 2

Frequency	1000 MHz
Insertion Loss	0.05 dB
Power Handling	1.8 KWatts

Frequency 3

Frequency	2 GHz
Insertion Loss	0.07 dB
Power Handling	1.2 KWatts

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 SMA Male Low Loss Test Cable 48 Inch Length Using PE-P300LL Coax, RoHS PE333-48

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

© 2014 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



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

TECHNICAL DATA SHEET PE333-48

Frequency 4	
Frequency	3 GHz
Insertion Loss	0.08 dB
Power Handling	1.05 KWatts
Frequency 5	
Frequency	5 GHz
Insertion Loss	0.11 dB
Power Handling	850 Watts
Frequency 6	
Frequency	10 GHz
Insertion Loss	0.16 dB
Power Handling	600 Watts
Frequency 7	
Frequency	18 GHz
Insertion Loss	0.22 dB
Power Handling	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.

Mechanical Specifications

Temperature	
Temperature Operating Range	-55 to +125 deg C
Size	
Length	48 in [121.92 cm]
Diameter	0.62 in [15.75 mm]
Weight	0.1 lbs [45.36 g]
Cable Color	Green
Repeated Minimum Bend Radius	1.5 in [38.1 mm]
Cable	
Cable Type	PE-P300LL
Cable Inner Conductor	Copper, Silver
No of Shields	2
Cable Outer Conductor	Copper, Silver
Dielectric Type	PTFE
Jacket Material	FEP
Jacket Diameter	0.3 in [7.62 mm]
Connector 1	
Type	SMA Male

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 SMA Male Low Loss Test Cable 48 Inch Length Using PE-P300LL Coax, RoHS PE333-48

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

© 2014 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



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

TECHNICAL DATA SHEET PE333-48

Connector 1 Specification	MIL-STD-348, Figure 310-1.
Configuration	Straight
Inner Conductor Material and Plating	Beryllium Copper, Gold
Inner Conductor Plating Specification	ASTM-B488 50µ In.
Outer Conductor Material and Plating	Passivated Stainless Steel
Outer Conductor Plating Specification	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]
Body Material and Plating	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700
Dielectric Type	PTFE

Connector 2

Type	SMA Male
Connector 2 Specification	MIL-STD-348, Figure 310-1.
Configuration	Straight
Inner Conductor Material and Plating	Beryllium Copper, Gold
Inner Conductor Plating Specification	ASTM-B488 50µ In.
Outer Conductor Material and Plating	Passivated Stainless Steel
Outer Conductor Plating Specification	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]
Body Material and Plating	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700
Dielectric Type	PTFE

Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant	Yes

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 SMA Male Low Loss Test Cable 48 Inch Length Using PE-P300LL Coax, RoHS PE333-48

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

© 2014 Pasternack Enterprises All Rights Reserved

PASTERNACK®
THE ENGINEER'S RF SOURCE



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

TECHNICAL DATA SHEET PE333-48

Plotted and Other Data

Notes:

- Values at +25 °C, sea level

SMA Male to SMA 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 SMA Male Low Loss Test Cable 48 Inch Length Using PE-P300LL Coax, RoHS PE333-48

URL: http://www.pasternack.com/sma-male-sma-male-pe-p300ll-cable-assembly-pe333-48-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.

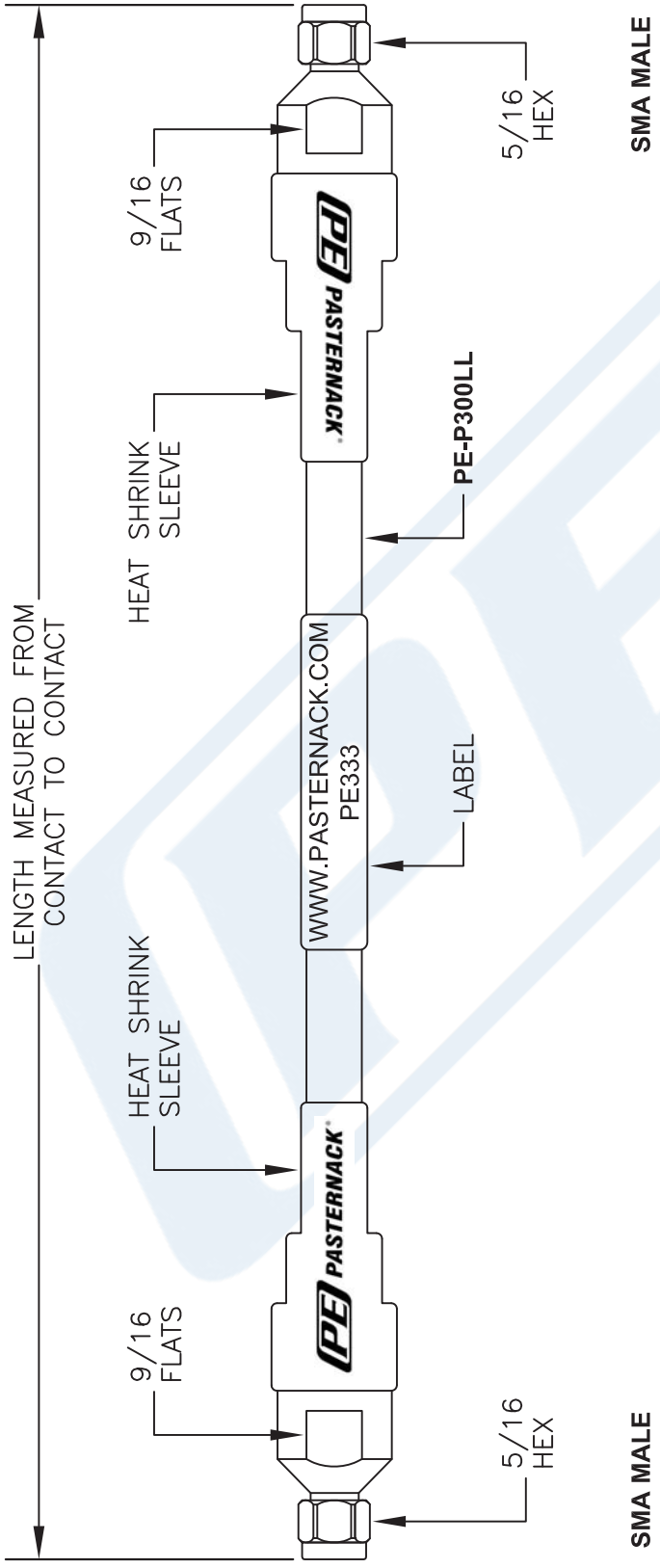
Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

ISO 9001 : 2008 Registered

© 2014 Pasternack Enterprises All Rights Reserved

PE333-48 CAD Drawing

SMA Male to SMA 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.

How To Order		Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
Part Number Configuration	Examples	-12	12"	-25CM	25Cm
PE3 zzz - xx uu	PE3000-100	-24	24"	-50CM	50Cm
00 - 99999	PE3000-100CM	-36	36"	-75CM	75Cm
CM = Centimeters		-48	48"	-100CM	100Cm
< Blank > = Inches		-60	60"	-125CM	125Cm
Length		-xx	Custom Length	-xxCM	Custom Length

DWG TITLE
PE333

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 ± 1.5% OR 3/8", WHICHEVER IS GREATER.

FSCM NO. 53919 | CAD FILE 091713 | SCALE N/A | SIZE A | 2233

PASTERNACK®
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | **Fax:** (949) 261-7451
Website: www.pasternack.com | **E-Mail:** sales@pasternack.com

© 2014 Pasternack Enterprises All Rights Reserved