

N Male to N Female Low Loss Test Cable Using PE-P300LL Coax, RoHS



PE3C3241

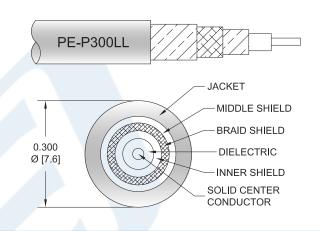
RF Cable Assemblies Technical Data Sheet

Configuration

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



Description

The PE3C3241 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 PE3C3241 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: N Male to N Female Low Loss Test Cable Using PE-P300LL Coax, RoHS PE3C3241

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

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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 Diameter

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

Repeated Minimum Bend Radius

0.875 in [22.23 mm]

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]

1.5 in [38.1 mm]

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Connectors

Description	Connector 1	Connector 2	
Туре	N Male	N Female	
Specification		MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	500		
Contact Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold	
Contact Plating Specification	50 µin minimum	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	3/4 inch		
Torque	19 in-lbs [2.15 Nm]		

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 +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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- Unit of Measure:

Length Base Number

cm = Centimeters <blank> = Inches

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How to Order Part Number Configuration: Example: PE3C3241-12 = 12 inches long cable PE3C3241-100cm = 100 cm long cable N Male to N Female 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. Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to N Female Low Loss Test Cable Using PE-P300LL Coax, RoHS PE3C3241 URL: https://www.pasternack.com/n-male-n-female-pe-p300ll-cable-assembly-pe3c3241-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.

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