

N Male to N Male Low Loss Test Cable 24 Inch. Length Using PE-P142LL Coax, RoHS



RF Cable Assemblies Technical Data Sheet

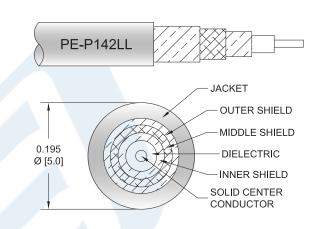
PE343-24

Configuration

· Connector 1: N Male · Connector 2: N Male Cable Type: PE-P142LL

Features

- 83% Velocity of Propagation
- Shielding effectiveness > 95 dB
- Maximum VSWR is < 1.35:1 to 18 GHz
- · Minimum Bend Radius of 1 inch
- 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



Description

The PE340 series high performance test cable's 0.195 inch diameter and 83% phase velocity offer very low loss performance up to 18 GHz. The durable stainless stell connectors and FEP jacket provide a cost effective design ideal for test environments where a rugged cabel 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 the durability of the cable assemblies. These cable assemblies and built using a double shielded flexible cable, providing excellent shielding effectiveness of greater than 95 dB. All PE340 cable assemblies are 100% Continuity, Hi-POT, 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: N Male to N Male Low Loss Test Cable 24 Inch Length Using PE-P142LL Coax, RoHS PE343-24

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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	5	10	18	GHz
Insertion Loss (Max.)	0.62	0.7	0.84	1.02	1.22	dB
Power Handling (Max.)	700	400	300	220	160	Watts
9 ()						

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

Cable Assembly

 Length
 24 in [609.6 mm]

 Diameter
 0.822 in [20.88 mm]

 Weight
 0.0768 lbs [34.84 g]

Cable

Cable Type PE-P142LL
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper, Silver
Dielectric Type PTEE

Dielectric Type PTFE
Number of Shields 3
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 0.195 in [4.95 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2		
Туре	N Male	N Male		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Specification	ASTM-B488, 50µ Inch.	ASTM-B488, 50µ Inch.		
Dielectric Type	PTFE	PTFE		
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Outer Conductor Plating Specification	SAE-AMS-2700	SAE-AMS-2700		
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel		
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2700		
Hex Size	3/4 Inch	3/4 Inch		
Torque	14 in-lbs [1.58 Nm]	14 in-lbs [1.58 Nm]		

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

RoHS Compliant Yes
REACH Compliant 07/19/2006

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

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How to Order



Example: PE343-12 = 12 inches long cable

PE343-100cm = 100 cm long cable

N Male to N Male Low Loss Test Cable 24 Inch Length Using PE-P142LL 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: http://www.pasternack.com/n-male-n-male-pe-p142ll-cable-assembly-pe343-24-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.



PE343-24 REV 1.2

