



N Male to N Male Right Angle Low Loss Test Cable  
100 CM Length Using PE-P142LL Coax, RoHS

TECHNICAL DATA SHEET

PE345-100CM

The PE340's 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 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 PE340 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	N Male
Connector 2	N Male Right Angle
Cable Type	PE-P142LL

**Electrical Specifications**

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

**Typical Performance by Frequency**

**Frequency 1**

Frequency, MHz	400
Insertion Loss	0.045 dB [0.15 dB ]
Power Handling, KWatts	1.2

**Frequency 2**

Frequency, MHz	1000
Insertion Loss	0.072 dB [0.24 dB ]
Power Handling, Watts	700

**Frequency 3**

Frequency, GHz	2
Insertion Loss	0.103 dB [0.34 dB ]
Power Handling, Watts	500

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 Right Angle Low Loss Test Cable 100 CM Length Using PE-P142LL Coax, RoHS PE345-100CM](#)



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**Frequency 4**

Frequency, GHz	3
Insertion Loss	0.127 dB [0.42 dB ]
Power Handling, Watts	400

**Frequency 5**

Frequency, GHz	5
Insertion Loss	0.166 dB [0.54 dB ]
Power Handling, Watts	300

**Frequency 6**

Frequency, GHz	10
Insertion Loss	0.24 dB [0.79 dB ]
Power Handling, Watts	220

**Frequency 7**

Frequency, GHz	18
Insertion Loss	0.33 dB [1.08 dB ]
Power Handling, Watts	160

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**

Cable Type	PE-P142LL
No of Shields	3
Dielectric Type	PTFE
Jacket Material	FEP
Cable Color	Green
Jacket Diameter, in [mm]	0.195 [4.95]

**Connector 1**

Type	N Male
Configuration	Straight
Inner Conductor Material and Plating	Beryllium Copper, Gold
Inner Conductor Plating Specification	ASTM-B488, 50µ Inch.
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, Inch	3/4
Torque, in-lbs [Nm]	14 [1.58]
Dielectric Type	PTFE

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**Connector 2**

Type	N Male Right Angle
Configuration	Right Angle
Inner Conductor Material and Plating	Beryllium Copper, Gold
Inner Conductor Plating Specification	ASTM-B488, 50µ In. Minimum
Outer Conductor Material and Plating	Passivated Stainless Steel
Outer Conductor Plating Specification	SAE-AMS-2701
Coupling Nut Material and Plating	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2701
Hex Size, Inch	3/4
Torque, in-lbs [Nm]	14 [1.58]
Body Material and Plating	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2701
Dielectric Type	PTFE

**Temperature**

Temperature Operating Range, deg C	-55 to +125
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**Size**

Length, in [cm]	39.37 [100]
Diameter, in [mm]	1.14 [28.96]
Weight, lbs [g]	0.154 [69.85]
Repeated Minimum Bend Radius, in [mm]	1 [25.4]

**Compliance Certifications** (visit [www.Pasternack.com](http://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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N Male to N Male Right Angle Low Loss Test Cable 100 CM Length Using PE-P142LL Coax, RoHS from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic 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 Male Right Angle Low Loss Test Cable 100 CM Length Using PE-P142LL Coax, RoHS PE345-100CM](http://www.pasternack.com/n-male-n-male-pe-p142ll-cable-assembly-pe345-100cm-p.aspx)

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# PE345-100CM CAD Drawing

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