

## N Male to TNC Male Low Loss Cable Using PE-P300LL Coax



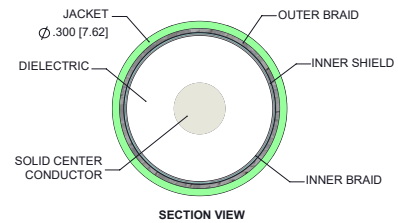
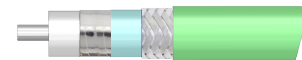
### PE335/HSGR

#### Configuration

- Connector 1: N Male
- Connector 2: TNC Male
- Cable Type: PE-P300LL
- Coax Flex Type: Flexible

#### Features

- Max Frequency 18 GHz
- 83% Phase Velocity
- Triple Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE335/HSGR type N male to TNC male cable using PE-P300LL coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to TNC cable assembly has a male to male gender configuration with 50 ohm flexible PE-P300LL coax. The PE335/HSGR type N male to TNC male cable assembly operates to 18 GHz. The triple shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Capacitance		25 [82.02]		pF/ft [pF/m]
Leakage		90		dB

#### Specifications by Frequency

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### PE335/HSGR

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	1000	2000	4500	9000	18000	
PE335/HSGR	Custom Lengths Available	Insertion Loss (Typ.)	0.046	0.066	0.101	0.148	0.219	dB/ft	
			0.16	0.22	0.34	0.49	0.72	dB/m	
PE335/HSGR-12	12 inch	Insertion Loss (Typ.)	0.85	1.2	1.8	2.55	3.62	dB	0.101
PE335/HSGR-24	24 inch	Insertion Loss (Typ.)	0.9	1.27	1.9	2.7	3.84	dB	0.181
PE335/HSGR-36	36 inch	Insertion Loss (Typ.)	0.94	1.33	2.01	2.85	4.06	dB	0.26
PE335/HSGR-48	48 inch	Insertion Loss (Typ.)	0.99	1.4	2.11	3	4.28	dB	0.339
PE335/HSGR-60	60 inch	Insertion Loss (Typ.)	1.03	1.47	2.21	3.14	4.49	dB	0.418

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.04\*SQRT(FGHz) dB  
 Loss due to Connector 2: 0.04\*SQRT(FGHz) dB  
 Base Weight: 0.101 pounds  
 Additional Weight per Inch: 0.00317 pounds

Electrical Specification Notes:  
 RF Leakage: 90 dB min up to 1 GHz

### Mechanical Specifications

#### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.101 lbs [45.81 g]

#### Cable

Cable Type PE-P300LL  
 Impedance 50 Ohms  
 Inner Conductor Type Solid  
 Inner Conductor Material and Plating Copper, Silver  
 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]  
 One Time Minimum Bend Radius 1 in [25.4 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Male	TNC Male
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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-2701
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Specification	SAE-AMS-2700	SAE-AMS-2701
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Plating Specification	SAE-AMS-2700	SAE-AMS-2701
Hex Size	4-Mar Inch	16-Sep Inch
Torque	19 in-lbs 2.15 Nm	

#### Environmental Specifications

Operating Range Temperature	-55 to +165 deg C
Humidity	MIL-STD-202, Method 106, No Vibration
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition D
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Fog	MIL-STD-202, Method 101, Condition B (5%)

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

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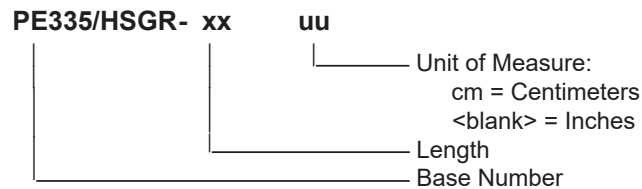


### PE335/HSGR

#### Typical Performance Data

#### How to Order

Part Number Configuration:



Example: PE335/HSGR-12 = 12 inches long cable  
PE335/HSGR-100cm = 100 cm long cable

N Male to TNC Male Low Loss Cable Using PE-P300LL Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% 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 TNC Male Low Loss Cable Using PE-P300LL Coax PE335/HSGR](#)

URL: <https://www.pasternack.com/n-male-to-tnc-male-low-loss-cable-using-pe-p300ll-pe335-hsgr-p.aspx>

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# PE335/HSGR CAD Drawing

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