

N Male to N Male Low Loss Cable Using PE-P142LL Coax with HeatShrink



PE-P142LL

0.195 (FEP) 0.320 (Stainless Steel) PE3C0231

JACKET

OUTER SHIELD

MIDDLE SHIELD

DIELECTRIC

INNER SHIELD

SOLID CENTER

CONDUCTOR

RF Cable Assemblies Technical Data Sheet

Configuration

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

Features

- Passivated Stainless Steel Flexible Armoring
- Type N Male to N Male and SMA Male to SMA Male Configurations Available
- Robust Connector/Armor Interface
- Triple Shielded Low Loss PE-P142LL Coax with Expanded PTFE Tape Dielectric
- Standard inch lengths: 24", 36", 48", 60", 72", 120"
- Standard metric lengths: 50cm, 100cm, 150cm, 200cm
- SMA rated to 20 GHz with a 1.35:1 VSWR
- N type rated to 18 GHz with a 1.35:1 VSWR
- · Custom lengths available, call for pricing and lead time

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's new SMA and type N armored test cables utilize a flexible passivated stainless steel armoring that is designed to handle harsh industrial environments, common in production test systems. Its rugged armoring is very flexible and ensures RF signal integrity during test, even when exposed to a high traffic production environment. These armored RF test cables are equipped with passivated stainless steel connectors, with the SMA designed to operate to 20 GHz and the type N to 18 GHz. A robust mechanical connector/armoring interface increases the durability of the test cables, and its strain relief boot increases the life of the test cable. Pasternack's armored test cables are built using PE-P142LL coaxial cable that is triple shielded with an expanded PTFE dielectric, guaranteeing low loss performance.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR		1.25:1	1.35:1	
Velocity of Propagation		80		%

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 Cable Using PE-P142LL Coax with HeatShrink PE3C0231

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	3	5	10	18	GHz
Insertion Loss (Typ.)	0.08	0.14	0.18	0.25	0.36	dB/ft
	[0.26]	[0.46]	[0.59]	[0.82]	[1.18]	[dB/m]
Power Handling (Max.)				220		Watts

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors. Insertion loss is estimated as 0.05 x sqrt(fGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Weight

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

0.4 lbs [181.44 g]

PE-P142LL 50 Ohms Solid Copper, Silver PTFE 3 Silver Plated Copper Braid Aluminum Polyester Silver Plated Copper Braid Passivated Stainless Steel 0.32 in [8.13 mm]

1 in [25.4 mm]

Connectors

Description		Connector 1	Connector 2	
Туре		N Male	N Male	
Impedance		50 Ohms	50 Ohms	
Contact Material and Plating		Brass, Gold	Brass, Gold	
Body Material and Plating		Passivated Stainless Steel	Passivated Stainless Steel	
Coupling Nut Material and Plating		Passivated Stainless Steel	Passivated Stainless Steel	

Mechanical Specification Notes:

*All cable assemblies have a length tolerance of 1.5% or \pm 3/8", whichever is greater.

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Те	onmental Specifications mperature berating Range	-5	5 to +200 deg C	;	
Comp	liance Certifications (see prod	uct page for current documer	nt)		
No	d and Other Data otes: /alues at 25°C, sea level.				
How to	o Order				
Pa	rt Number Configuration:	PE3C0231	- xx	uu I Unit of Meas cm = Cen	
				<pre> con</pre>	Inches
Ex	ample: PE3C0231-12 = 12 incl	hes long cable			

PE3C0231-100cm = 100 cm long cable

N Male to N Male Low Loss Cable Using PE-P142LL Coax with HeatShrink 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: https://www.pasternack.com/n-male-n-male-pe-p142ll-cable-assembly-pe3c0231-p.aspx

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PE3C0231 CAD Drawing N Male to N Male Low Loss Cable Using PE-P142LL Coax with HeatShrink

