



N Male to N Male Low Loss Armored Test Cable Using PE-P142LL Coax

TECHNICAL DATA SHEET

PE3C0231

Armored N Male to N Male Low Loss Test Cable Using PE-P142LL Coax

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 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.

- 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

Configuration

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

Electrical Specifications

Frequency Range, GHz	DC to 20
Impedance, Ohms	50
Maximum VSWR	1.35:1
Velocity of Propagation, %	80

Typical Performance by Frequency

Frequency 1

Frequency, MHz	1000
Insertion Loss	0.08 dB/ft [0.26 dB/m]

Frequency 2

Frequency, GHz	3
Insertion Loss	0.14 dB/ft [0.46 dB/m]

Frequency 3

Frequency, GHz	5
Insertion Loss	0.18 dB/ft [0.59 dB/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 Armored Test Cable Using PE-P142LL Coax PE3C0231](#)

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.



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Frequency 4

Frequency, GHz
Insertion Loss

10
0.25 dB/ft [0.82 dB/m]

Frequency 5

Frequency, GHz
Insertion Loss

18
0.36 dB/ft [1.18 dB/m]

Electrical Specification Notes:

For Custom Lengths Please Call (866)727-8376

Mechanical Specifications

Cable Assembly

Cable Type

PE-P142LL

Temperature

Temperature Operating Range, deg C
Diameter, in [mm]

-55 to +200
0.875 [22.23]

Weight, lbs [g]

0.4 [181.44]

Repeated Minimum Bend Radius, in [mm]

1 [25.4]

Cable

Center Conductor Type
Cable Inner Conductor
No of Shields
Cable Outer Conductor
Dielectric Type
Jacket Material
Jacket Diameter, in [mm]

Solid
Copper, Silver
3
Copper, Silver
PTFE
Stainless Steel
0.31 [7.87]

Connector 1

Type
Configuration
Inner Conductor Material and Plating
Coupling Nut Material and Plating
Body Material and Plating

N Male
Straight
Brass, Gold
Passivated Stainless Steel
Passivated Stainless Steel

Connector 2

Type
Configuration
Inner Conductor Material and Plating
Coupling Nut Material and Plating
Body Material and Plating

N Male
Straight
Brass, Gold
Passivated Stainless Steel
Passivated Stainless Steel

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

RoHS Compliant

Yes

Plotted and Other Data

Notes:

Values at 25 °C, sea level

N Male to N Male Low Loss Armored Test Cable Using PE-P142LL Coax 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.

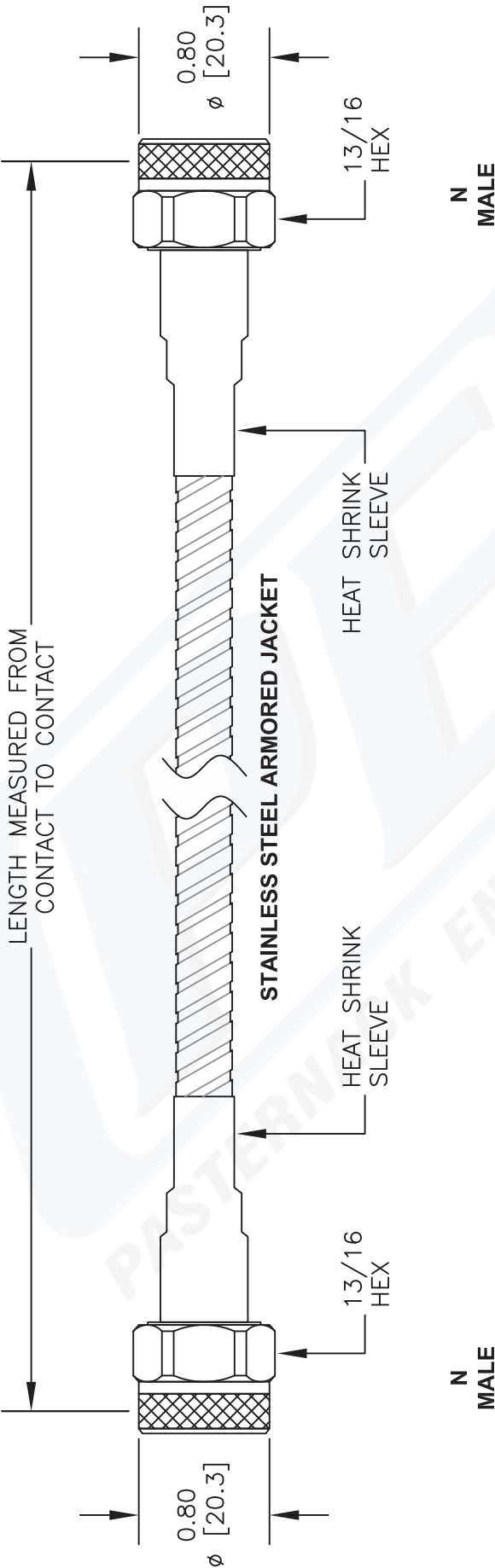
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Low Loss Armored Test Cable Using PE-P142LL Coax PE3C0231](http://www.pasternack.com/n-male-n-male-pe-p142ll-cable-assembly-pe3c0231-p.aspx)

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PE3C0231 CAD Drawing

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NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. LENGTH TOLERANCE IS ± 1.5% OR 3/8", WHICHEVER IS GREATER.

DWG TITLE
PE3C0231

FSCM NO. 53919

CAD FILE 082713

SCALE N/A

SIZE A

2233

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