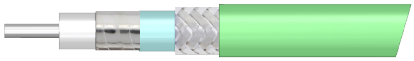
N Male Right Angle to SMA Male Right Angle Low Loss Cable 48 Inch Length Using PE-P160LL Coax



PE3C5281-48

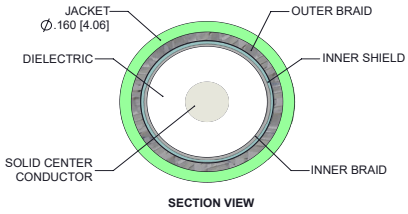
Configuration

- Connector 1: N Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: PE-P160LL
- Coax Flex Type: Flexible



Features

- Max Frequency 18 GHz
- Shielding Effectivity > 90 dB
- 82.5% Phase Velocity
- Triple Shielded
- FEP Jacket
- 0.8 inch Minimum Bend Radius
- Max VSWR of 1.5:1 to 18 GHz
- Same Day Shipment of Custom Lengths
- RoHS and REACH Compliant



Applications

- General Purpose
- Laboratory Use
- Automated Test Systems
- Airborne Systems
- Phased Arrays
- EW and Countermeasures

Description

The PE3C5271-24 N Male Right Angle to SMA Male Right Angle Low Loss cable assembly is part of a series of cable assemblies that use our PE-P160LL double shielded coax. The PE-P160LL based cable assemblies are available in a variety of connector configurations operating to a maximum frequency for this cable series of 18 GHz. The PE3C5271-24 high performance cable assembly with a 82.5% phase velocity offers very low loss performance in a 0.16 inch coax up to 18 GHz. The shielding effectiveness of the PE-P160LL double shielded coax is greater than 95 dB. The durable stainless steel connectors and FEP cable jacket provide a cost effective design ideal for test environments where a rugged cable assembly is required. A heavy duty heat shrink booting provides improved strain relief and adds to the durability of the cable assembly.

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			1.5:1	
Velocity of Propagation		82.5		%
RF Shielding	90			dB

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N Male Right Angle to SMA Male Right Angle Low Loss Cable 48 Inch Length Using PE-P160LL Coax



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Capacitance		25 [82.02]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Typ.)	0.54	0.77	1.17	1.68	2.43	dB

Electrical Specification Notes:
The Insertion Loss data above is based on the performance specifications of the coax cable used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.04*SQRT(F(GHz))dB maximum for the SMA right angle connector and 0.10*SQRT(F(GHz))dB maximum for the N right angle connector.

Mechanical Specifications

Cable Assembly

Length	48 in [121.92 cm]
Weight	0.236 lbs [107.05 g]

Cable

Cable Type	PE-P160LL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	Expanded PTFE Tape
Number of Shields	3
Shield Layer 1	Silver Plated Copper
Shield Layer 2	Aluminum Polyester
Shield Layer 3	Silver Plated Copper
Jacket Material	FEP
Jacket Diameter	0.16 in [4.06 mm]
Repeated Minimum Bend Radius	0.8 in [20.32 mm]

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N Male Right Angle to SMA Male Right Angle Low Loss Cable 48 Inch Length Using PE-P160LL Coax



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Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	SMA Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	ASTM-B488	ASTM-B488
Dielectric Type	PTFE	PTFE
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

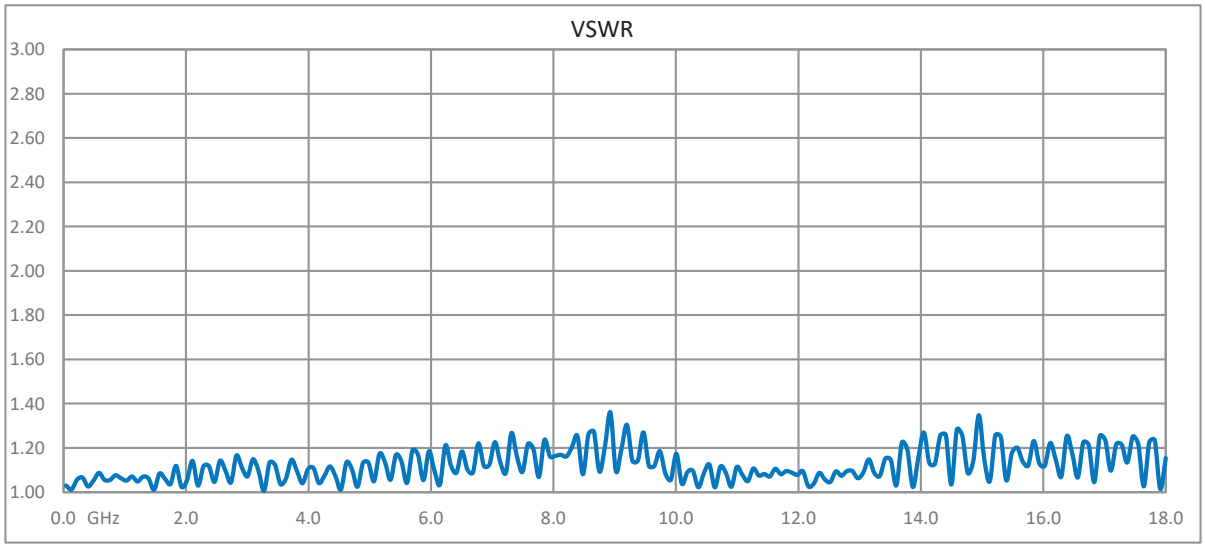
Operating Range Temperature	-55 to +165 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data

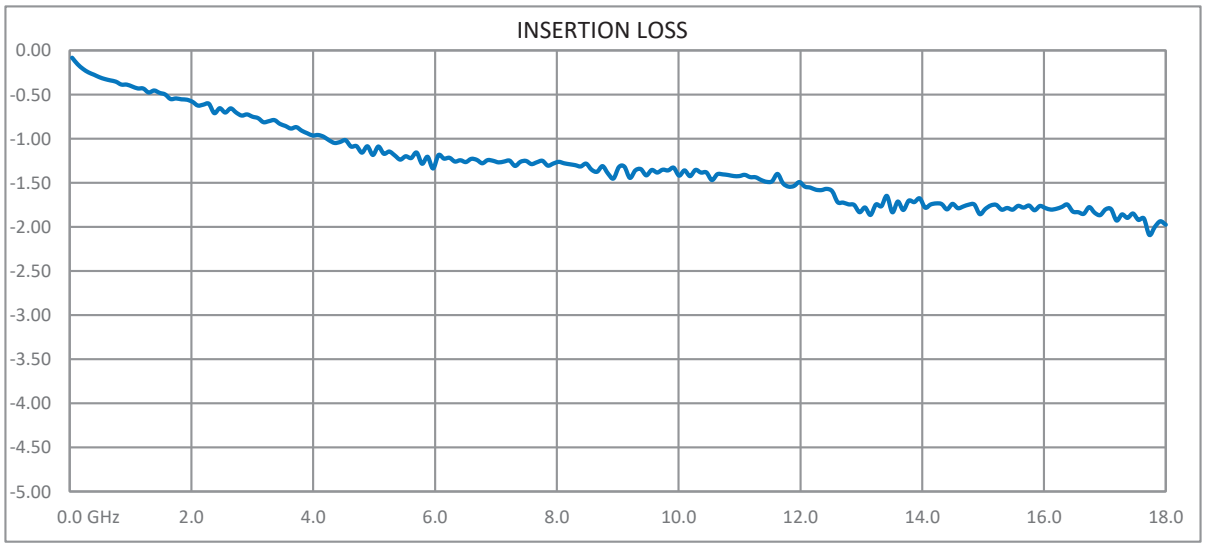


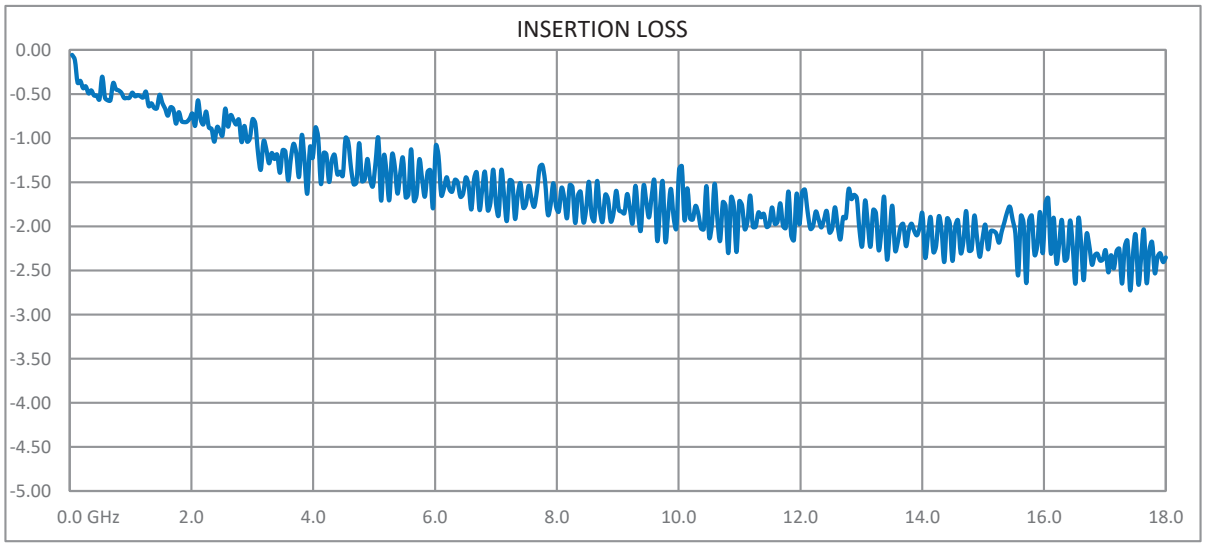
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N Male Right Angle to SMA Male Right Angle Low Loss Cable 48 Inch Length Using PE-P160LL Coax



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N Male Right Angle to SMA Male Right Angle Low Loss Cable 48 Inch Length Using PE-P160LL Coax



PE3C5281-48

How to Order

Part Number Configuration: **PE3C5281 - xx uu**

- **uu** — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- **xx** — Length
- **PE3C5281** — Base Number

Example: PE3C5281-12 = 12 inches long cable
PE3C5281-100cm = 100 cm long cable

N Male Right Angle to SMA Male Right Angle Low Loss Cable 48 Inch Length Using PE-P160LL 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 Right Angle to SMA Male Right Angle Low Loss Cable 48 Inch Length Using PE-P160LL Coax PE3C5281-48

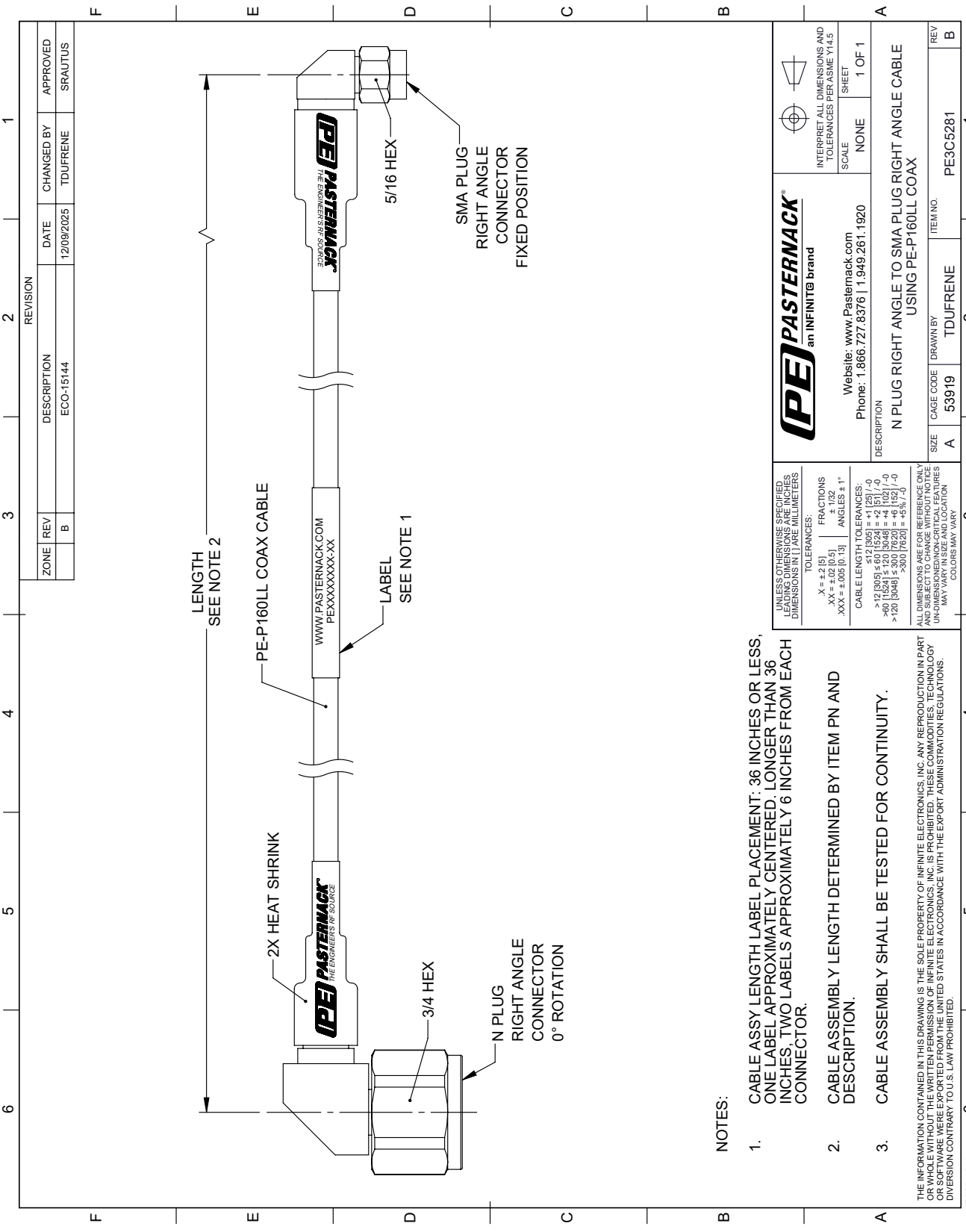
URL: https://www.pasternack.com/n-male-sma-male-pe-p160ll-cable-assembly-pe3c5281-48-p.aspx

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PE3C5281-48 CAD Drawing

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