



SMA Male to N Male Precision Cable
Using 150 Series Coax, RoHS

TECHNICAL DATA SHEET

PE33231

SMA Male to N Male Precision Cable Using 150 Series Coax, RoHS

Configuration

Connector 1	SMA Male
Connector 2	N Male
Cable Type	150 Series

Electrical Specifications

Frequency Range, GHz	DC to 18
Impedance, Ohms	50
Maximum VSWR	1.4:1
Velocity of Propagation, %	69.5
RF Shielding, dB	90
Maximum Operating Voltage, Vrms	1,900

Typical Performance by Frequency

Frequency 1

Frequency, GHz	2
VSWR	1.1:1
Insertion Loss	0.22 dB/ft [0.72 dB/m]

Frequency 2

Frequency, GHz	6
VSWR	1.08:1
Insertion Loss	0.34 dB/ft [1.12 dB/m]

Frequency 3

Frequency, GHz	10
VSWR	1.17:1
Insertion Loss	0.45 dB/ft [1.48 dB/m]

Frequency 4

Frequency, GHz	14
VSWR	1.23:1
Insertion Loss	0.57 dB/ft [1.87 dB/m]

Frequency 5

Frequency, GHz	18
VSWR	1.25:1
Insertion Loss	0.68 dB/ft [2.23 dB/m]

Electrical Specification Notes:

Short lengths up to 24" long may exhibit VSWR measurements up to 9% higher.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to N Male Precision Cable Using 150 Series Coax, RoHS PE33231](#)

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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Mechanical Specifications

Cable Assembly

Cable Type 150 Series

Temperature

Temperature Operating Range, deg C -55 to +205

One Time Minimum Bend Radius, in [mm] 1 [25.4]

Cable

Center Conductor Type Solid
Cable Inner Conductor Copper Clad Steel, Silver
No of Shields 1
Dielectric Type PTFE
Jacket Material FEP
Jacket Diameter, in [mm] 0.15 [3.81]

Connector 1

Type SMA Male
Configuration Straight
Inner Conductor Material and Plating Copper Clad Steel, Silver
Coupling Nut Material and Plating Passivated Stainless Steel
Hex Size, in. 5/16
Torque, in-lbs [Nm] 8 [0.9]
Body Material and Plating Passivated Stainless Steel
Dielectric Type PTFE

Connector 2

Type N Male
Configuration Straight
Inner Conductor Material and Plating Gold
Outer Conductor Material and Plating Passivated Stainless Steel
Coupling Nut Material and Plating Brass, Nickel
Body Material and Plating Passivated Stainless Steel
Dielectric Type PTFE

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

RoHS Compliant Yes

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Plotted and Other Data

Notes:

Values at 25 °C, sea level

SMA Male to N Male Precision Cable Using 150 Series 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: [SMA Male to N Male Precision Cable Using 150 Series Coax, RoHS PE33231](http://www.pasternack.com/sma-male-n-male-150-series-cable-assembly-pe33231-p.aspx)

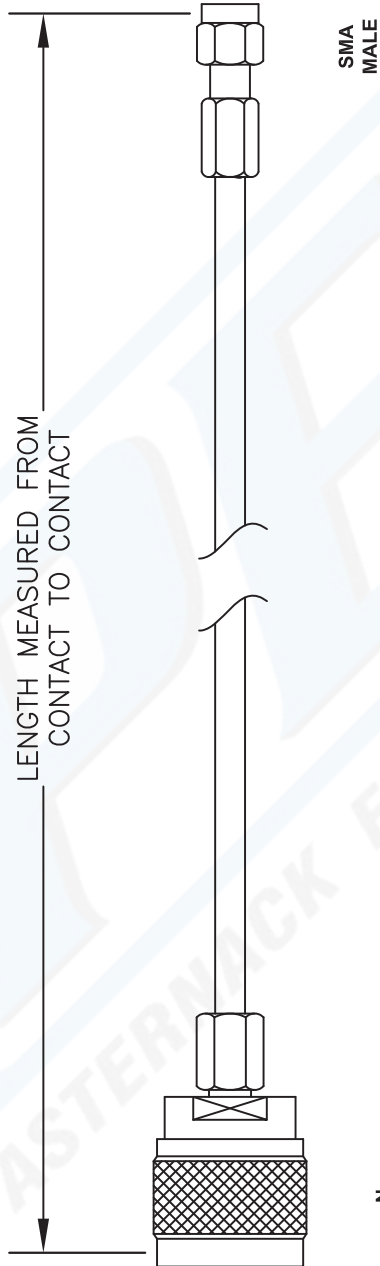
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PE33231 CAD Drawing

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Standard Lengths	
-12	12"
-24	24"
-36	36"
-48	48"
-60	60"
-XXX	Custom Length in Inches



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 $\pm 1.5\%$ OR $3/8"$, WHICHEVER IS GREATER.

DWG TITLE
PE33231-XX

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COAXIAL & FIBER OPTICS



REV. A	FSCM NO. 53919	CAD FILE 030508	SCALE N/A	SIZE A	127
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