



SMA Male to N Male Precision Cable 18 Inch Length Using 150 Series Coax, RoHS

TECHNICAL DATA SHEET

PE33231-18

**SMA Male to N Male Precision Cable 18 Inch Length 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 Electrical Specifications**

**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 18 Inch Length Using 150 Series Coax, RoHS PE33231-18](#)

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

##### Size

Length, in [mm] 18 [457.2]

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](http://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 18 Inch Length 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 18 Inch Length Using 150 Series Coax, RoHS PE33231-18](http://www.pasternack.com/sma-male-n-male-150-series-cable-assembly-pe33231-18-p.aspx)

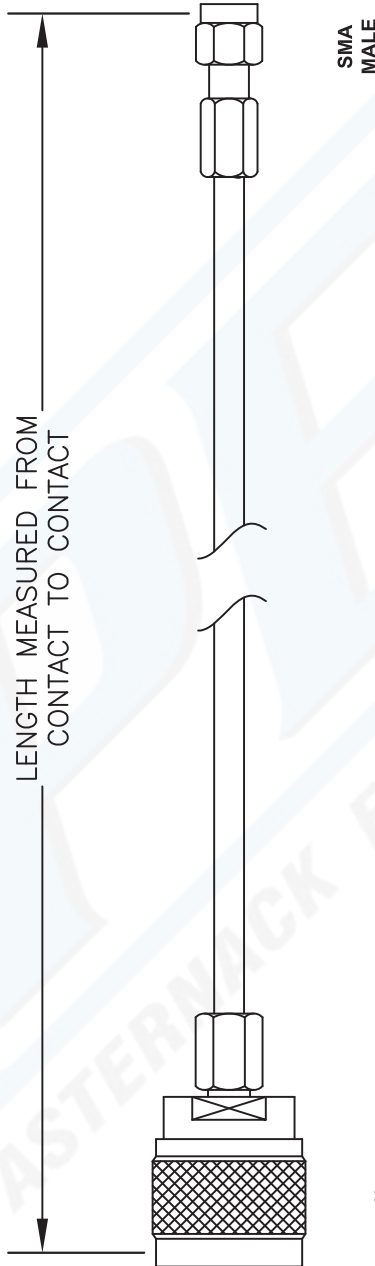
URL: <http://www.pasternack.com/sma-male-n-male-150-series-cable-assembly-pe33231-18-p.aspx>

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# PE33231-18 CAD Drawing

SMA Male to N Male Precision Cable 18 Inch Length Using 150 Series Coax, RoHS

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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