



SMA Male to TNC Male Right Angle Precision
Cable Using 160 Series Coax, RoHS

TECHNICAL DATA SHEET

PE309

SMA Male to TNC Male Right Angle Precision Cable Using 160 Series Coax, RoHS

Configuration

Connector 1	SMA Male
Connector 2	TNC Male Right Angle
Cable Type	160 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	1,200

Typical Performance by Frequency

Frequency 1

Frequency, GHz	2
VSWR	1.08:1
Insertion Loss	0.24 dB/ft [0.79 dB/m]

Frequency 2

Frequency, GHz	6
VSWR	1.16:1
Insertion Loss	0.32 dB/ft [1.05 dB/m]

Frequency 3

Frequency, GHz	10
VSWR	1.22:1
Insertion Loss	0.4 dB/ft [1.31 dB/m]

Frequency 4

Frequency, GHz	14
VSWR	1.28:1
Insertion Loss	0.5 dB/ft [1.64 dB/m]

Frequency 5

Frequency, GHz	16
VSWR	1.31:1
Insertion Loss	0.55 dB/ft [1.8 dB/m]

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 TNC Male Right Angle Precision Cable Using 160 Series Coax, RoHS PE309](#)

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 6

Frequency, GHz	18
VSWR	1.4:1
Insertion Loss	0.6 dB/ft [1.97 dB/m]

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Cable Type	160 Series
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Temperature

Temperature Operating Range, deg C	-48 to +204
Diameter, in [mm]	0.17 [4.32]
Weight, lbs [g]	0.038 [17.24]
Cable Color	Blue
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	3
Dielectric Type	PTFE
Jacket Material	FEP
Jacket Diameter, in [mm]	0.163 [4.14]

Connector 1

Type	SMA Male
Configuration	Straight
Inner Conductor Material and Plating	Gold
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	TNC Male Right Angle
Configuration	Right Angle
Inner Conductor Material and Plating	Gold
Coupling Nut Material and Plating	Brass, Nickel
Hex Size, in.	9/16
Torque, in-lbs [Nm]	5 [0.57]

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Body Material and Plating
Dielectric Type

Passivated Stainless Steel
PTFE

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

Yes

Plotted and Other Data

Notes:

Values at 25 °C, sea level

SMA Male to TNC Male Right Angle Precision Cable Using 160 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.

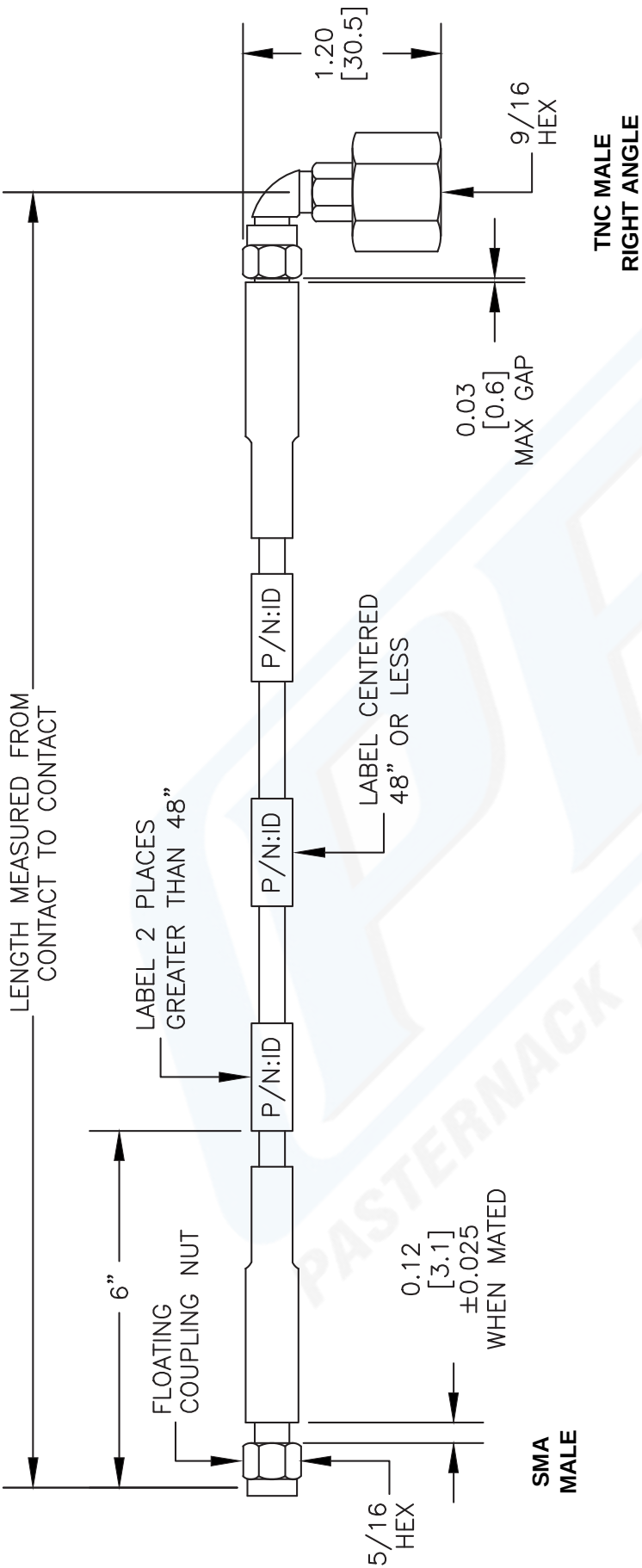
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to TNC Male Right Angle Precision Cable Using 160 Series Coax, RoHS PE309](#)

URL: <http://www.pasternack.com/sma-male-tnc-male-300-series-cable-assembly-pe309-p.aspx>

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PE309 CAD Drawing

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TNC MALE
RIGHT ANGLE

SMA
MALE

How To Order		Part # Ext.	Length In Inches	Part # Ext.	Length In Centimeters
Part Number Configuration		-12	12"	-25CM	25Cm
PE3 zzz yy - xx uu		-24	24"	-50CM	50Cm
00 - 99999		-36	36"	-75CM	75Cm
LF = Lead Free		-48	48"	-100CM	100Cm
< Blank > = Standard		-60	60"	-125CM	125Cm
Note: LF applies only to RF cables		-xx	Custom Length	-xxCM	Custom Length
CM = Centimeters					
< Blank > = Inches					
Length					



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DWG TITLE

PE309

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.

REV. B

FSCM NO. 53919

CAD FILE 071012

SCALE N/A

SIZE A

2233