



SMA Female to N Male Precision Cable 48 Inch Length Using 160 Series Coax, RoHS

TECHNICAL DATA SHEET

PE306-48

SMA Female to N Male Precision Cable 48 Inch Length Using 160 Series Coax, RoHS

Configuration

| | |
|-------------|------------|
| Connector 1 | SMA Female |
| Connector 2 | N Male |
| 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 | 1.07:1 |
| Insertion Loss | 0.2 dB/ft [0.66 dB/m] |

Frequency 2

| | |
|----------------|--------------------------|
| Frequency, GHz | 6 |
| VSWR | 1.15:1 |
| Insertion Loss | 0.38 dB/ft [1.25 dB/m] |

Frequency 3

| | |
|----------------|-------------------------|
| Frequency, GHz | 10 |
| VSWR | 1.21:1 |
| Insertion Loss | 0.55 dB/ft [1.8 dB/m] |

Frequency 4

| | |
|----------------|------------------------|
| Frequency, GHz | 14 |
| VSWR | 1.27:1 |
| Insertion Loss | 0.7 dB/ft [2.3 dB/m] |

Frequency 5

| | |
|----------------|-------------------------|
| Frequency, GHz | 16 |
| VSWR | 1.28:1 |
| Insertion Loss | 0.8 dB/ft [2.62 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 Female to N Male Precision Cable 48 Inch Length Using 160 Series Coax, RoHS PE306-48](#)

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 | 1.26:1 |
| Insertion Loss | 0.88 dB/ft [2.89 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 |
|------------|------------|

Temperature

| | |
|------------------------------------|-------------|
| Temperature Operating Range, deg C | -48 to +204 |
|------------------------------------|-------------|

Size

| | |
|---------------------------------------|---------------|
| Length, in [cm] | 48 [121.92] |
| 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 Female |
| Configuration | Straight |
| Inner Conductor Material and Plating | Gold |
| Body Material and Plating | Passivated Stainless Steel |
| Dielectric Type | PTFE |

Connector 2

| | |
|--------------------------------------|----------------------------|
| Type | N Male |
| Configuration | Straight |
| Inner Conductor Material and Plating | Gold |
| Coupling Nut Material and Plating | Passivated Stainless Steel |
| Hex Size, in. | 13/16 |
| Torque, in-lbs [Nm] | 15 [1.7] |

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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 Female to N Male Precision Cable 48 Inch Length 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.

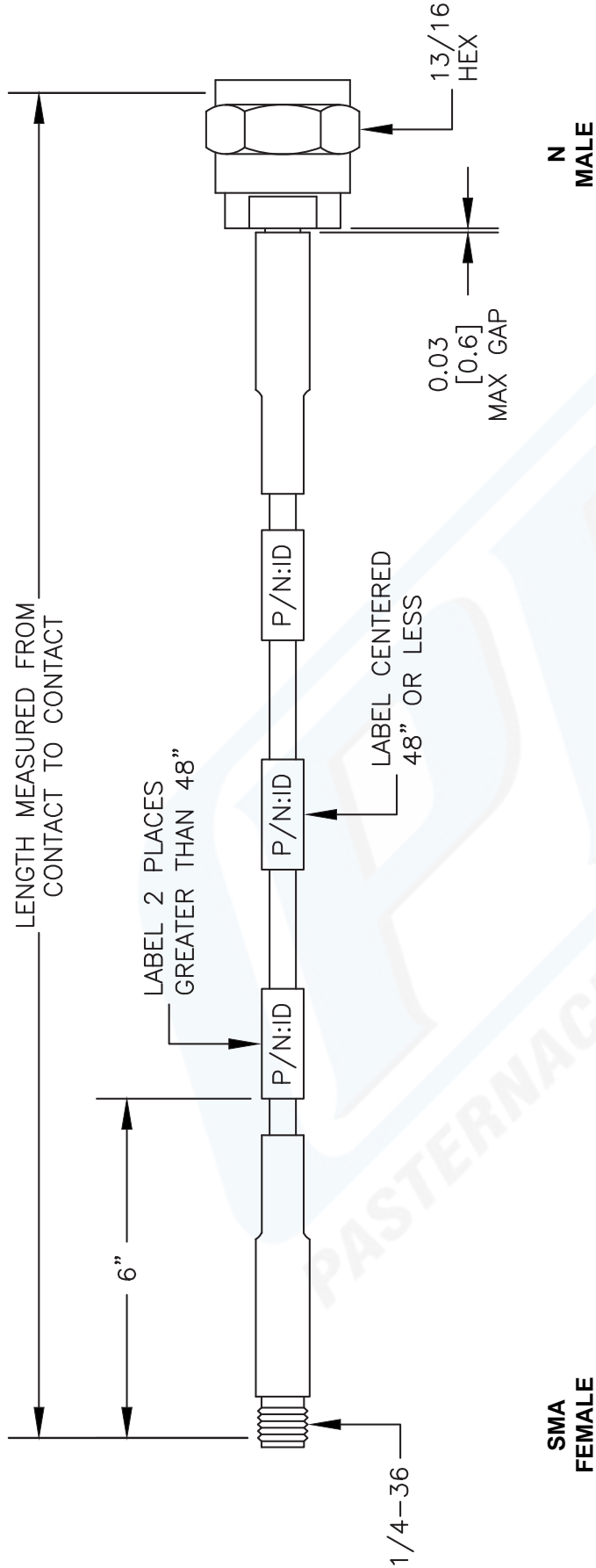
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URL: <http://www.pasternack.com/sma-female-n-male-300-series-cable-assembly-pe306-48-p.aspx>

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PE306-48 CAD Drawing

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| How To Order | | Part # Ext. | Length In Inches | Part # Ext. | Length In Centimeters |
|--|--|-------------|------------------|-------------|-----------------------|
| Part Number Configuration PE3 [zzz] [yy] - [xx] [uu] 00 - 99999 LF = Lead Free < Blank > = Standard Note: LF applies only to RF cables | | -12 | 12" | -25CM | 25Cm |
| Examples PE3000LF-100 PE3000-100 PE3000LF-100CM PE3000-100CM | | -24 | 24" | -50CM | 50Cm |
| CM = Centimeters < Blank > = Inches _____ Length | | -36 | 36" | -75CM | 75Cm |
| | | -48 | 48" | -100CM | 100Cm |
| | | -60 | 60" | -125CM | 125Cm |
| | | -xx | Custom Length | -xxCM | Custom Length |

PE PASTERNAK
 Pasternack Enterprises, Inc.
 P.O. Box 16759 | Irvine | CA | 92623
 Phone: (949) 261-1920 | Fax: (949) 261-7451
 Website: www.pasternack.com | E-Mail: sales@pasternack.com

DWG TITLE
PE306

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.

| | | | | | |
|--------|----------------|-----------------|-----------|--------|------|
| REV. A | FSCM NO. 53919 | CAD FILE 071012 | SCALE N/A | SIZE A | 2233 |
|--------|----------------|-----------------|-----------|--------|------|