



N Male to N Male Right Angle Cable Using
1/2 inch Helical Coax, RoHS

TECHNICAL DATA SHEET

PE37970

N Male to N Male Right Angle Cable Using 1/2 inch Helical Coax, RoHS

Configuration

| | |
|-------------|--------------------|
| Connector 1 | N Male |
| Connector 2 | N Male Right Angle |
| Cable Type | 1/2" Helical |

Electrical Specifications

| | |
|------------------------------|-----------|
| Frequency Range, GHz | DC to 2.7 |
| Impedance, Ohms | 50 |
| Maximum VSWR | 1.14:1 |
| Passive Intermodulation, dBc | -156 |

Typical Performance by Frequency

Frequency 1

| | |
|----------------|---|
| Frequency, MHz | 1000 |
| VSWR | 1.06:1 |
| Insertion Loss | 0.022 dB/ft + 0.02 dB [0.07 dB/m + 0.02 dB] |

Frequency 2

| | |
|----------------|--|
| Frequency, GHz | 2.2 |
| VSWR | 1.08:1 |
| Insertion Loss | 0.034 dB/ft + 0.02 [0.11 dB/m + 0.02 dB] |

Frequency 3

| | |
|----------------|---|
| Frequency, GHz | 2.7 |
| VSWR | 1.09:1 |
| Insertion Loss | 0.038 dB/ft + 0.02 dB [0.12 dB/m + 0.02 dB] |

Mechanical Specifications

Cable Assembly

| | |
|------------|--------------|
| Cable Type | 1/2" Helical |
|------------|--------------|

Temperature

| | |
|---------------------------------------|--------------|
| Temperature Operating Range, deg C | -55 to +85 |
| One Time Minimum Bend Radius, in [mm] | 2.75 [69.85] |
| Repeated Minimum Bend Radius, in [mm] | 4.9 [124.46] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Right Angle Cable Using 1/2 inch Helical Coax, RoHS PE37970](#)

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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Cable

| | |
|--------------------------|----------------------|
| Center Conductor Type | Solid |
| Cable Inner Conductor | Copper Clad Aluminum |
| No of Shields | 1 |
| Dielectric Type | PE (F) |
| Jacket Material | PE |
| Jacket Diameter, in [mm] | 0.54 [13.72] |

Connector 1

| | |
|--------------------------------------|---------------|
| Type | N Male |
| Configuration | Straight |
| Inner Conductor Material and Plating | Brass, Silver |
| Outer Conductor Material and Plating | Brass, Silver |
| Coupling Nut Material and Plating | Brass, Nickel |
| Hex Size, mm | 19 |
| Body Material and Plating | Brass, Silver |
| Dielectric Type | PTFE |

Connector 2

| | |
|--------------------------------------|--------------------|
| Type | N Male Right Angle |
| Configuration | Right Angle |
| Inner Conductor Material and Plating | Brass, Silver |
| Outer Conductor Material and Plating | Brass, Silver |
| Coupling Nut Material and Plating | Brass, Nickel |
| Hex Size, mm | 19 |
| Body Material and Plating | Brass, Silver |
| Dielectric Type | PTFE |

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

| | |
|----------------|-----|
| RoHS Compliant | Yes |
|----------------|-----|

Plotted and Other Data

| | |
|--------|----------------------------|
| Notes: | Values at 25 °C, sea level |
|--------|----------------------------|

N Male to N Male Right Angle Cable Using 1/2 inch Helical 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.

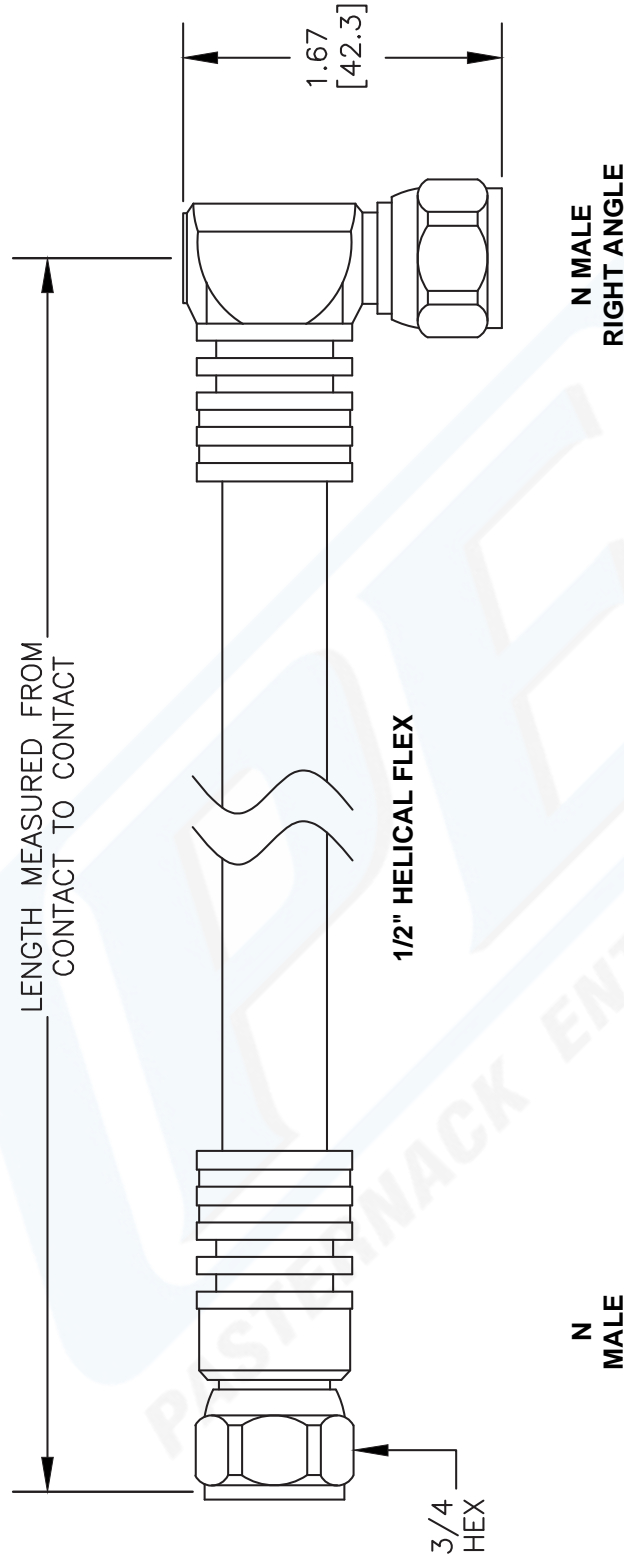
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to N Male Right Angle Cable Using 1/2 inch Helical Coax, RoHS PE37970](http://www.pasternack.com/n-male-n-male-1-2-inch-helical-cable-assembly-pe37970-p.aspx)

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PE37970 CAD Drawing

N Male to N Male Right Angle Cable Using 1/2 inch Helical Coax, RoHS



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

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
PE37970

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

FSCM NO. 53919

CAD FILE 111407

SCALE N/A

SIZE A

2233