



N Male Right Angle to BNC Male Cable  
Using RG223 Coax , LF Solder

## RF Cable Assemblies Technical Data Sheet

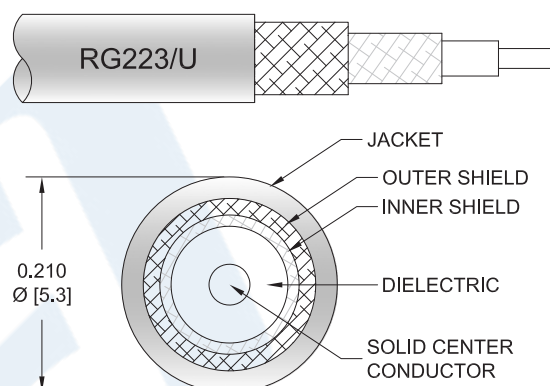
**PE33630LF**

### Configuration

- Connector 1: N Male Right Angle
- Connector 2: BNC Male
- Cable Type: RG223

### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE33630LF type N male right angle to BNC male cable using RG223 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack type N to BNC cable assembly has a male to male gender configuration with 50 ohm flexible RG223 coax. The PE33630LF type N male to BNC male cable assembly operates to 1 GHz. The right angle type N interface on the RG223 cable allows for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to BNC Male Cable Using RG223 Coax , LF Solder PE33630LF](#)



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### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	250	500	1,000		MHz
Insertion Loss (Typ.)	0.04	0.061	0.09	0.134		dB/ft
	0.13	0.2	0.3	0.44		dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the N Male right angle connector and 0.1 dB for the BNC Male straight connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.185 lbs [83.91 g]

#### Cable

Cable Type RG223  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper, Silver  
Dielectric Type PE  
Number of Shields 2  
Shield Layer 1 Silver Plated Copper Braid  
Shield Layer 2 Silver Plated Copper Braid  
Jacket Material PVC, Black  
Jacket Diameter 0.209 in [5.31 mm]

Repeated Minimum Bend Radius 1 in [25.4 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to BNC Male Cable Using RG223 Coax , LF Solder PE33630LF](#)



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### Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	BNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum

### Environmental Specifications

#### Temperature

Operating Range

-20 to +80 deg C

Vibration

MIL-STD-202, Method 204, Condition B

Temperature Cycle

MIL-STD-202, Method 107, Condition B

Salt Fog

MIL-STD-202, Method 101, Condition B

### Compliance Certifications (see [product page](#) for current document)

### Plotted and Other Data

Notes:

- Values at +25° C, sea level

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## RF Cable Assemblies Technical Data Sheet

**PE33630LF**

### How to Order

Part Number Configuration:

**PE33630LF**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE33630LF-12 = 12 inches long cable  
PE33630LF-100cm = 100 cm long cable

N Male Right Angle to BNC Male Cable Using RG223 Coax , LF Solder from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

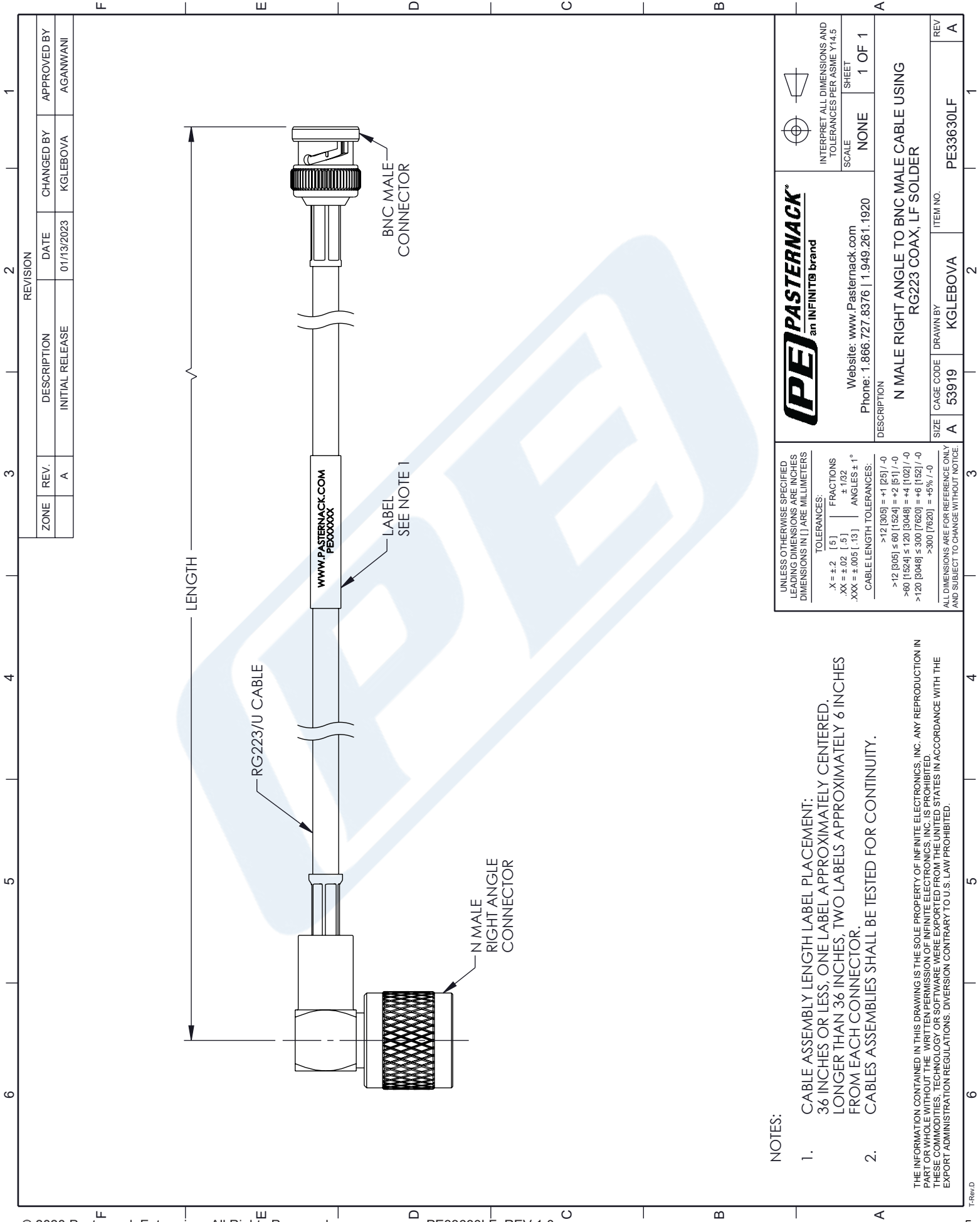
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URL: <https://www.pasternack.com/n-male-right-angle-to-bnc-male-cable-using-rg223-lf-solder-pe33630lf-p.aspx>

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. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE33630LF CAD Drawing

N Male Right Angle to BNC Male Cable Using RG223 Coax , LF Solder



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
X = ±.2 [ .5 ]    FRACTIONS  
XX = ±.02 [ .5 ]    ±.1/32  
XXX = ±.005 [ .13 ]    ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
>12 [305] = +1 [25] / -0  
>12 [305] ≤ 60 [1524] = +2 [51] / -0  
>60 [1524] ≤ 120 [3048] = +4 [102] / -0  
>120 [3048] ≤ 300 [7620] = +6 [152] / -0  
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY  
AND SUBJECT TO CHANGE WITHOUT NOTICE.

**PE PASTERNAK**  
an INFINITO brand

Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION  
N MALE RIGHT ANGLE TO BNC MALE CABLE USING  
RG223 COAX, LF SOLDER

SCALE  
NONE

SHEET  
1 OF 1

INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	01/13/2023	KGLEBOVA	AGANWANI

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KGLEBOVA	PE33630LF	A

- NOTES:
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT:  
36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED.  
LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES  
FROM EACH CONNECTOR.
  - CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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