



N Male to QN Male Right Angle Cable 36 Inch Length  
Using RG223 Coax with HeatShrink, LF Solder

## RF Cable Assemblies Technical Data Sheet

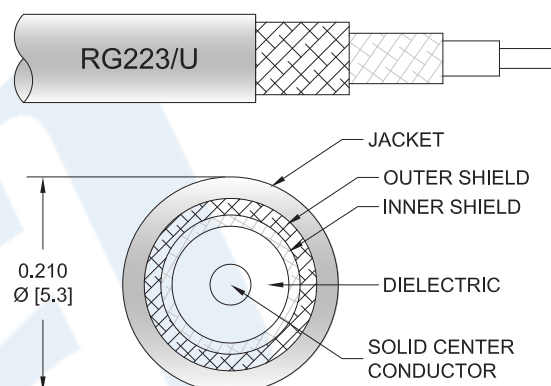
**PE3W06872LF/HS-36**

### Configuration

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

### Features

- Max Frequency 4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3W06872LF/HS-36 type N male to QN male right angle 36 inch 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 QN cable assembly has a male to male gender configuration with 50 ohm flexible RG223 coax. The PE3W06872LF/HS-36 type N male to QN male cable assembly operates to 4 GHz. The right angle QN 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.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.5:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms

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 QN Male Right Angle Cable 36 Inch Length Using RG223 Coax with HeatShrink, LF Solder PE3W06872LF/HS-36](#)



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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	4	GHz
Insertion Loss (Max.)	0.45	0.5	0.71	0.86	1.13	dB

### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.3dB of connector Loss

### Mechanical Specifications

#### Cable Assembly

Length*	36 in [914.4 mm]
Diameter	0.83 in [21.08 mm]

#### 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]
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### Connectors

Description	Connector 1	Connector 2
Type	N Male	QN Male Right Angle
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Mating Cycles		100
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	
Hex Size	18 mm	
Torque	9 in-lbs [1.02 Nm]	

Mechanical Specification Notes:

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

### Environmental Specifications

#### Temperature

Operating Range

-40 to +80 deg C

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

### Plotted and Other Data

Notes:

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## RF Cable Assemblies Technical Data Sheet

**PE3W06872LF/HS-36**

### How to Order

Part Number Configuration:

**PE3W06872LF/HS - xx**

**uu**

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

Example: PE3W06872LF/HS-12 = 12 inches long cable  
PE3W06872LF/HS-100cm = 100 cm long cable

N Male to QN Male Right Angle Cable 36 Inch Length Using RG223 Coax with HeatShrink, 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.

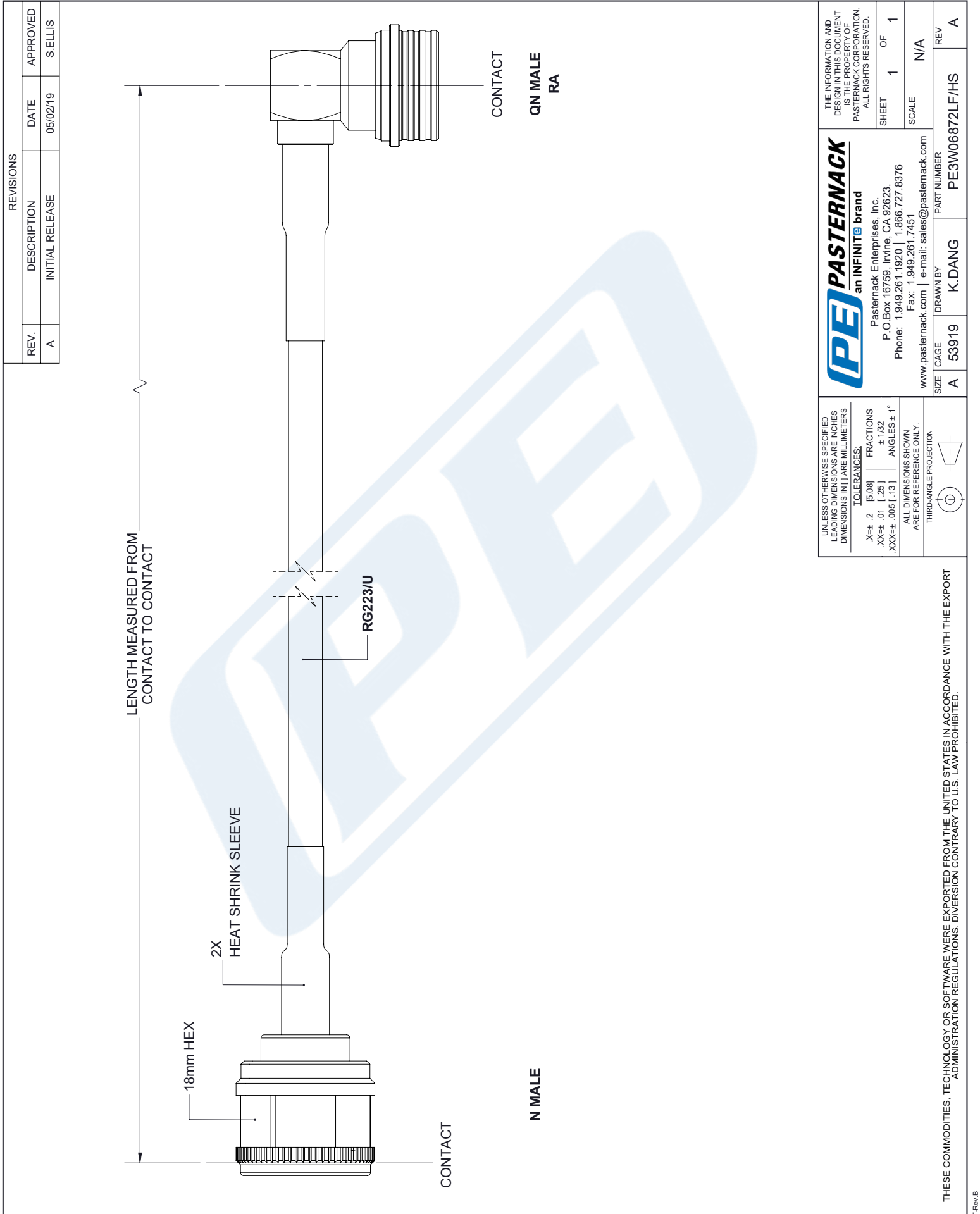
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URL: <https://www.pasternack.com/n-male-qn-male-rg223u-cable-assembly-pe3w06872lf-hs-36-p.aspx>

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# PE3W06872LF/HS-36 CAD Drawing

## N Male to QN Male Right Angle Cable 36 Inch Length Using RG223 Coax with HeatShrink, LF Solder



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X = ± .2 [5.08]	FRACTIONS XX = ± .01 [ .25] XXX = ± .005 [ .13]	SHEET 1		OF 1	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.		SCALE		N/A	
THIRD-ANGLE PROJECTION		SIZE		CAGE	DRAWN BY
		A		53919	K.DANG
		REV		A	
		PART NUMBER		PE3W06872LF/HS	

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