

N Male Right Angle to QN Male Right Angle Cable Using RG142 Coax



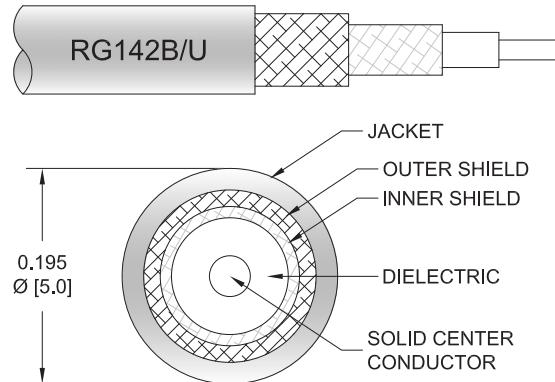
PE39038

Configuration

- Connector 1: N Male Right Angle
- Connector 2: QN Male Right Angle
- Cable Type: RG142
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- Shielding Effectivity > 90 dB
- 69.2% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE39038 type N male right angle to QN male right angle cable using RG142 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 RG142 coax. The PE39038 type N male to QN male cable assembly operates to 1 GHz. The right angle type N and right angle QN interfaces on the RG142 cable allow for easier connections in tight spaces. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 dB.

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 | | 1,000 | MHz |
| VSWR | | | 1.4:1 | |
| Velocity of Propagation | | 69.2 | | % |
| RF Shielding | 90 | | | dB |
| Capacitance | | 29.4 [96.46] | | pF/ft [pF/m] |

Specifications by Frequency

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| Part Number | Length | Description | F1 | F2 | F3 | F4 | F5 | Units | Weight (lbs) |
|-------------|--------------------------|-----------------------|------|-------|-------|-------|-------|-------|--------------|
| | | Frequency | 50 | 100 | 250 | 500 | 1000 | MHz | |
| PE39038 | Custom Lengths Available | Insertion Loss (Typ.) | 0.02 | 0.039 | 0.059 | 0.087 | 0.129 | dB/ft | |
| | | | 0.07 | 0.13 | 0.2 | 0.29 | 0.43 | dB/m | |
| PE39038-12 | 12 inch | Insertion Loss (Typ.) | 0.24 | 0.26 | 0.29 | 0.33 | 0.38 | dB | 0.221 |
| PE39038-24 | 24 inch | Insertion Loss (Typ.) | 0.26 | 0.3 | 0.35 | 0.41 | 0.51 | dB | 0.263 |
| PE39038-36 | 36 inch | Insertion Loss (Typ.) | 0.28 | 0.34 | 0.41 | 0.5 | 0.64 | dB | 0.305 |
| PE39038-48 | 48 inch | Insertion Loss (Typ.) | 0.3 | 0.38 | 0.47 | 0.59 | 0.77 | dB | 0.347 |
| PE39038-60 | 60 inch | Insertion Loss (Typ.) | 0.32 | 0.42 | 0.52 | 0.68 | 0.9 | dB | 0.389 |

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.2 dB

Loss due to Connector 2: 0.05*SQRT(FGHz) dB

Base Weight: 0.221 pounds

Additional Weight per Inch: 0.0035 pounds

Mechanical Specifications

Cable Assembly

Weight 0.221 lbs [100.24 g]

Cable

| | |
|--------------------------------------|----------------------------|
| Cable Type | RG142 |
| Impedance | 50 Ohms |
| Inner Conductor Type | Solid |
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Number of Shields | 2 |
| Shield Layer 1 | Silver Plated Copper Braid |
| Shield Layer 2 | Silver Plated Copper Braid |
| Jacket Material | FEP, Tan |
| Jacket Diameter | 0.195 in [4.95 mm] |
| One Time Minimum Bend Radius | 0.984 in [24.99 mm] |
| Repeated Minimum Bend Radius | 2 in [50.8 mm] |

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Connectors

| Description | Connector 1 | Connector 2 |
|-----------------------------------|----------------------|---------------------|
| Type | N Male Right Angle | QN Male Right Angle |
| Specification | MIL-STD-348A | |
| Impedance | 50 Ohms | 50 Ohms |
| Configuration | Right Angle | Right Angle |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30 μ in minimum | |
| Dielectric Type | PTFE | PTFE |
| Body Material and Plating | Brass, Nickel | Brass, Tri-Metal |
| Body Plating Specification | 100 μ in minimum | |
| Coupling Nut Material and Plating | Brass, Nickel | |

Environmental Specifications

Operating Range Temperature -40 to +125 deg C

Compliance Certifications

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

Plotted and Other Data

Notes:
Values at 25°C, sea level.

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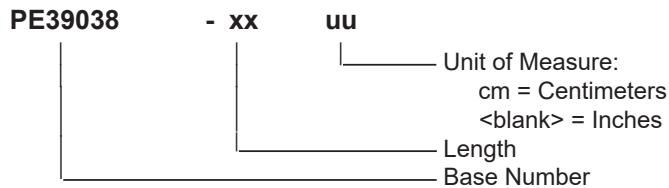


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Typical Performance Data

How to Order

Part Number Configuration:



Example: PE39038-12 = 12 inches long cable
PE39038-100cm = 100 cm long cable

N Male Right Angle to QN Male Right Angle Cable Using RG142 Coax 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.

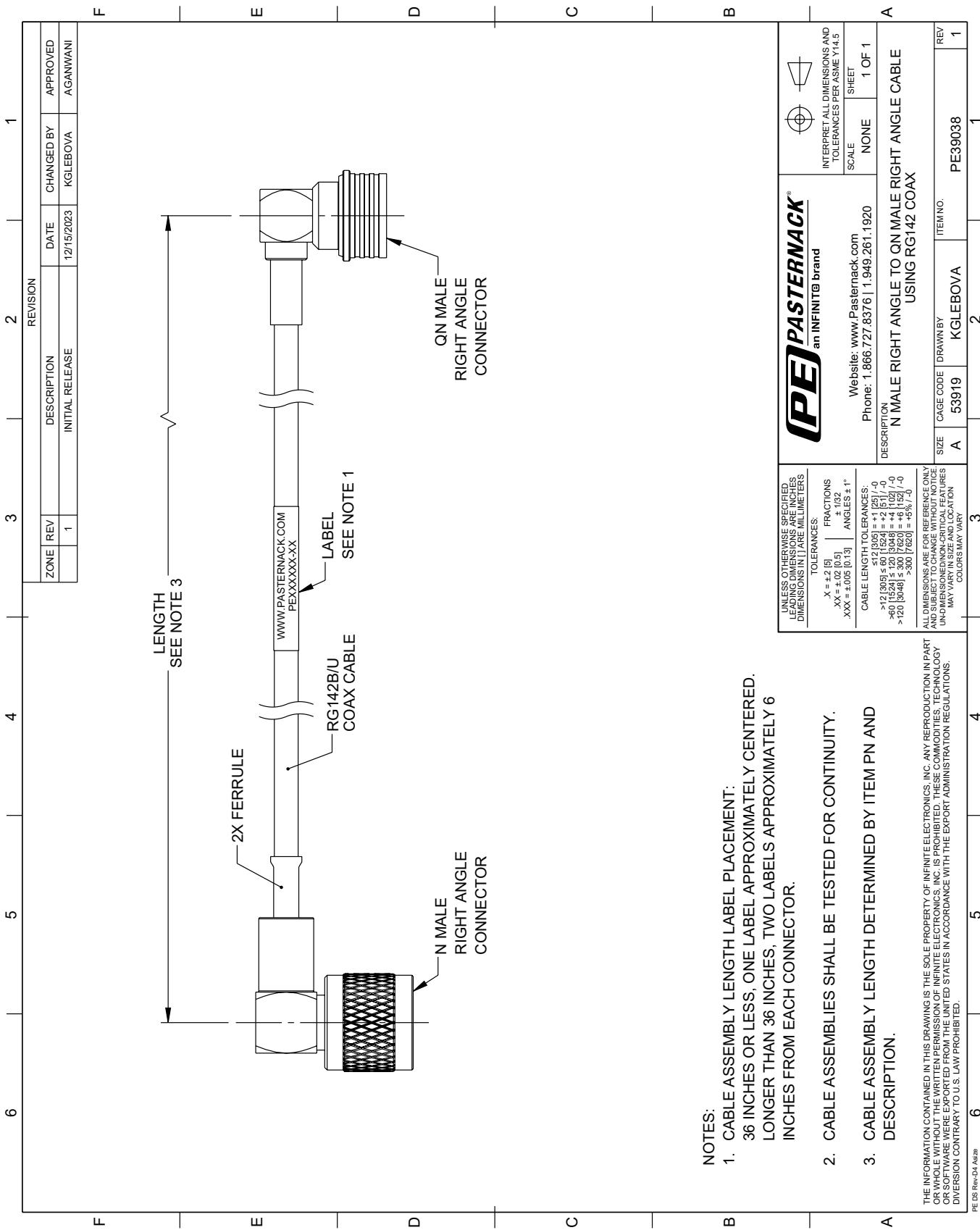
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to QN Male Right Angle Cable Using RG142 Coax PE39038](#)

URL: <https://www.pasternack.com/n-male-right-angle-to-qn-male-cable-using-rg142-pe39038-p.aspx>

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PE39038 CAD Drawing

N Male Right Angle to QN Male Right Angle Cable Using RG142 Coax



NOTES:
1. CABL 36 INC LONG NICH

2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION

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