

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

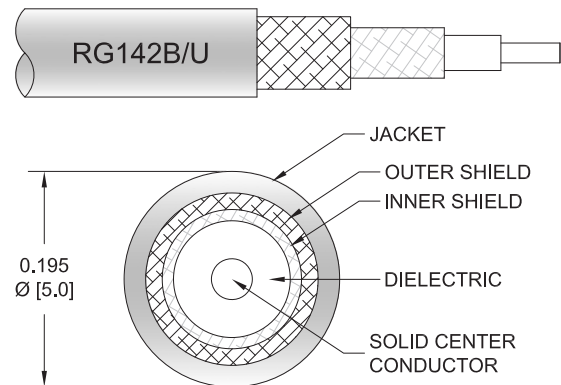
Applications

- 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: $0.05 \cdot \sqrt{\text{F}} \text{ (GHz) dB}$

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 µin minimum	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Tri-Metal
Body Plating Specification	100 µin 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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Typical Performance Data

How to Order

Part Number Configuration:

PE39038

- xx

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Unit of Measure:
cm = Centimeters
<blank> = Inches

Length
Base Number

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
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