

QN Male to QN Male Cable Using RG142 Coax



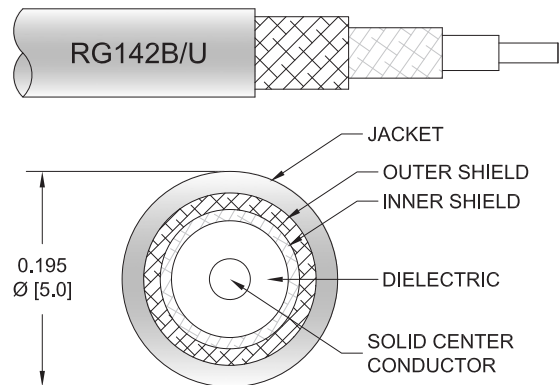
PE3W11619

Configuration

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

Features

- Max Frequency 6 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket
- 100 Mating Cycles



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W11619 QN male to QN male 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 QN to QN cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. The PE3W11619 QN male to QN male cable assembly operates to 6 GHz. 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			850	Vrms

Specifications by Frequency

QN Male to QN Male Cable Using RG142 Coax



PE3W11619

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3W11619	Custom Lengths Available	Insertion Loss (Typ.)	0.06	0.09	0.129	0.211	0.368	dB/ft	
			0.2	0.29	0.43	0.7	1.21	dB/m	
PE3W11619-12	12 inch	Insertion Loss (Typ.)	0.11	0.16	0.23	0.37	0.61	dB	0.122
PE3W11619-24	24 inch	Insertion Loss (Typ.)	0.17	0.25	0.36	0.58	0.98	dB	0.164
PE3W11619-36	36 inch	Insertion Loss (Typ.)	0.23	0.33	0.49	0.79	1.34	dB	0.206
PE3W11619-48	48 inch	Insertion Loss (Typ.)	0.29	0.42	0.62	1	1.71	dB	0.248
PE3W11619-60	60 inch	Insertion Loss (Typ.)	0.35	0.51	0.75	1.21	2.08	dB	0.29

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: 0.048*sqrt(fGHz) dB

Loss due to Connector 2: 0.048*sqrt(fGHz) dB

Base Weight: 0.122 pounds

Additional Weight per Inch: 0.0035 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter

0.5 in [12.7 mm]

Weight

0.122 lbs [55.34 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]

Repeated Minimum Bend Radius

1 in [25.4 mm]

QN Male to QN Male Cable Using RG142 Coax



PE3W11619

Connectors

Description	Connector 1	Connector 2
Type	QN Male	QN Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	100	100
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Beryllium Copper, Nickel	Beryllium Copper, Nickel
Body Material and Plating	Brass, Silver	Brass, Silver

Environmental Specifications

Operating Range Temperature -55 to +125 deg C

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

Plotted and Other Data

Notes:

QN Male to QN Male Cable Using RG142 Coax



PE3W11619

Typical Performance Data

How to Order

Part Number Configuration: **PE3W11619** **- xx** **uu**

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

Length

Base Number

Example: PE3W11619-12 = 12 inches long cable
PE3W11619-100cm = 100 cm long cable

QN Male to QN Male 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: [QN Male to QN Male Cable Using RG142 Coax PE3W11619](https://www.pasternack.com/qn-male-to-qn-male-cable-using-rg142-pe3w11619-p.aspx)

URL: <https://www.pasternack.com/qn-male-to-qn-male-cable-using-rg142-pe3w11619-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W11619 CAD Drawing
QN Male to QN Male Cable Using RG142 Coax

