

N Female Bulkhead to N Female Bulkhead Cable Using RG214 Coax

PE3W02648

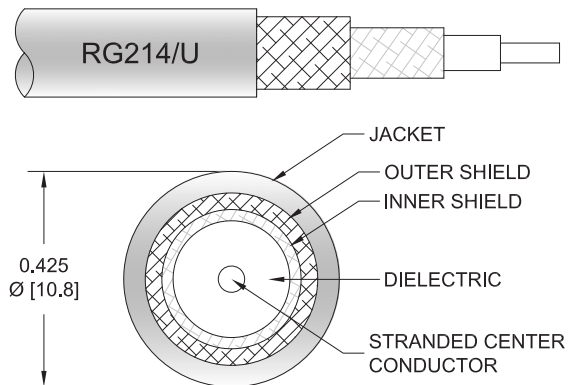


Configuration

- Connector 1: N Female Bulkhead
- Connector 2: N Female Bulkhead
- Cable Type: RG214
- Coax Flex Type: Flexible

Features

- Max Frequency 11 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W02648 type N female bulkhead to type N female bulkhead cable using RG214 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 type N cable assembly has a female to female gender configuration with 50 ohm flexible RG214 coax. The PE3W02648 type N female to type N female cable assembly operates to 11 GHz. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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		11	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	11000	MHz	
PE3W02648	Custom Lengths Available	Insertion Loss (Typ.)	0.05	0.08	0.13	0.21	0.401	dB/ft	
			0.15	0.25	0.42	0.68	1.32	dB/m	
PE3W02648-12	12 inch	Insertion Loss (Typ.)	0.25	0.28	0.33	0.41	0.61	dB	0.39
PE3W02648-36	36 inch	Insertion Loss (Typ.)	0.34	0.43	0.58	0.82	1.41	dB	0.647
PE3W02648-48	48 inch	Insertion Loss (Typ.)	0.38	0.51	0.7	1.03	1.81	dB	0.775
PE3W02648-72	72 inch	Insertion Loss (Typ.)	0.47	0.66	0.95	1.44	2.61	dB	1.031
PE3W02648-108	108 inch	Insertion Loss (Typ.)	0.61	0.89	1.33	2.06	3.81	dB	1.415

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:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.39 pounds
Additional Weight per Inch:	0.01067 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.39 lbs [176.9 g]

Cable

Cable Type	RG214
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PE (LD)
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.425 in [10.8 mm]
One Time Minimum Bend Radius	2.165 in [54.99 mm]
Repeated Minimum Bend Radius	3.228 in [81.99 mm]

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Connectors

Description	Connector 1	Connector 2
Type	N Female Bulkhead	N Female Bulkhead
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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

Environmental Specifications

Operating Range Temperature -25 to +70 deg C

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

Plotted and Other Data

Notes:

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PE3W02648

Typical Performance Data

How to Order

Part Number Configuration: **PE3W02648** **- xx** **uu**

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

Length

Base Number

Example: PE3W02648-12 = 12 inches long cable
PE3W02648-100cm = 100 cm long cable

N Female Bulkhead to N Female Bulkhead Cable Using RG214 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 Female Bulkhead to N Female Bulkhead Cable Using RG214 Coax PE3W02648](#)

URL: <https://www.pasternack.com/n-female-n-female-rg214u-cable-assembly-pe3w02648-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.

PE3W02648 CAD Drawing
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