

## N Male to BNC Male Cable Using RG142 Coax with HeatShrink, LF Solder



### PE3W00140LF/HS

#### Configuration

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

#### Features

- Max Frequency 4 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W00140LF/HS type N male to BNC 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 type N to BNC cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. The PE3W00140LF/HS type N male to BNC male cable assembly operates to 4 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		4	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		100	250	500	1000	
PE3W00140LF/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.06	0.09	0.13	0.28	dB/ft	
			0.13	0.2	0.29	0.43	0.92	dB/m	
PE3W00140LF/HS-12	12 inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.33	0.48	dB	0.137
PE3W00140LF/HS-24	24 inch	Insertion Loss (Typ.)	0.28	0.32	0.38	0.46	0.76	dB	0.179
PE3W00140LF/HS-36	36 inch	Insertion Loss (Typ.)	0.32	0.38	0.47	0.59	1.04	dB	0.221
PE3W00140LF/HS-48	48 inch	Insertion Loss (Typ.)	0.36	0.44	0.55	0.72	1.32	dB	0.263
PE3W00140LF/HS-60	60 inch	Insertion Loss (Typ.)	0.4	0.5	0.64	0.85	1.6	dB	0.305

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: 0.137 pounds  
 Additional Weight per Inch: 0.0035 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter: 0.5 in [12.7 mm]  
 Weight: 0.14 lbs [63.5 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]

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### Connectors

Description	Connector 1	Connector 2
Type	N Male	BNC Male
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
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Body Plating Specification		100 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum
Hex Size	18 mm	
Torque	9 in-lbs 1.02 Nm	

### Environmental Specifications

Operating Range Temperature -55 to +165 deg C

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

### Plotted and Other Data

Notes:

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### PE3W00140LF/HS

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W00140LF/HS - xx uu**



Example: PE3W00140LF/HS-12 = 12 inches long cable  
PE3W00140LF/HS-100cm = 100 cm long cable

N Male to BNC Male Cable Using RG142 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.

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 BNC Male Cable Using RG142 Coax with HeatShrink, LF Solder PE3W00140LF/HS](#)

URL: <https://www.pasternack.com/n-male-to-bnc-male-cable-using-rg142-with-heatshrink-lf-solder-pe3w00140lf-hs-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.

# PE3W00140LF/HS CAD Drawing

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