



### **RF Cable Assemblies Technical Data Sheet**

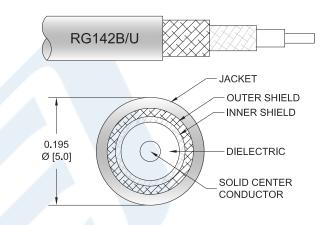
## **PE33253LF/HS**

## Configuration

- Connector 1: BNC Male Right AngleConnector 2: N Male Right Angle
- Cable Type: RG142

#### **Features**

- Max Frequency 1 GHz
- 70% Phase Velocity
- · Double Shielded
- FEP Jacket



## **Applications**

· General Purpose

· Laboratory Use

### Description

Pasternack's PE33253LF/HS BNC male right angle to type N 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 BNC to type N cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. The PE33253LF/HS BNC male to type N male cable assembly operates to 1 GHz. The right angle BNC and right angle type N interfaces on the RG142 cable allow for easier connections in tight spaces. 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BNC Male Right Angle to N Male Right Angle Cable Using RG142 Coax with HeatShrink, LF Solder PE33253LF/HS

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





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#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR		/ All	1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Typ.)	0.019	0.039	0.054	0.079	0.13	dB/ft
	0.06	0.13	0.18	0.26	0.43	dB/m

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB per connector.

#### **Mechanical Specifications**

#### **Cable Assembly**

Weight 0.223 lbs [101.15 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	
Туре	BNC Male Right Angle	N Male Right Angle	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Mating Cycles		500	
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	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum		

## **Environmental Specifications**

Temperature

Operating Range -55 to +165 deg C

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

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## **PE33253LF/HS**

#### **How to Order**

Example: PE33253LF/HS-12 = 12 inches long cable PE33253LF/HS-100cm = 100 cm long cable

BNC Male Right Angle to N Male Right Angle 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.

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URL: https://www.pasternack.com/bnc-male-right-angle-to-n-male-cable-using-rg142-with-heatshrink-lf-solder-pe33253lf-hs-p.aspx

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

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PE33253LF/HS CAD Drawing
BNC Male Right Angle to N Male Right Angle Cable Using RG142 Coax with HeatShrink, LF Solder ш ш INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 APPROVED BY AGANWANI BNC MALE RIGHT ANGLE TO N MALE RIGHT ANGLE CABLE USING RG142 COAX WITH HEATSHRINK, LF SOLDER 1 PF SHEET PE33253LF-HS NONE CHANGED BY DZINN PASTERNACK ITEM NO. 01/20/2023 Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 DATE an INFINIT® brand REVISION DZINN N MALE RA CONNECTOR DRAWN BY INITIAL RELEASE DESCRIPTION CAGE CODE SIZE ⋖ ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. >12 [305] ≤ 60 [1624] = +2 [51] / -0 >60 [1624] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS >12 [305] = +1 [25] / -0 FRACTIONS CABLE LENGTH TOLERANCES: >300 [7620] = +5% / -0 က REV. ⋖ TOLERANCES: ZONE  $X = \pm .2$  [5]  $X = \pm .02$  [.5]  $X = \pm .02$  [.13] LABEL SEE NOTE 1 WWW.PASTERNACK.COM PEXXXXXX RG142B/U CABLE LENGTH THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PRAT OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINE ELECTRONICS, INC. IS PROHIBITED.
THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO US. LAW PROHIBITED. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY. **BNC MALE RA** CONNECTOR 2X HEAT SHRINK 2 FROM EACH CONNECTOR NOTES:  $^{\circ}$ ш Ш © 2020 Pasternack Enterprises All Rights Reserved PE33253LF/HS REV 1 В ⋖ 5