

BNC Male to BNC Male Cable Using RG141 Coax with HeatShrink, LF Solder



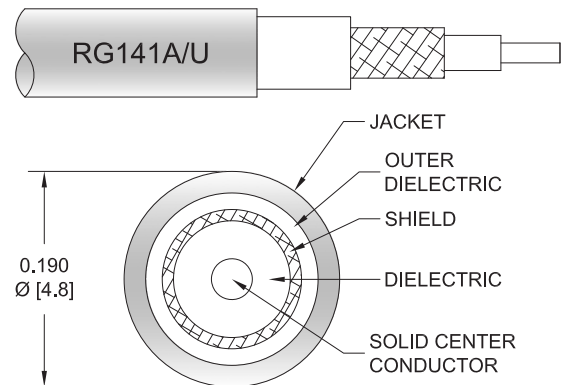
PE35148LF/HS

Configuration

- Connector 1: BNC Male
- Connector 2: BNC Male
- Cable Type: RG141
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- 70% Phase Velocity
- PTFE (FG) Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE35148LF/HS BNC male to BNC male cable using RG141 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 BNC cable assembly has a male to male gender configuration with 50 ohm flexible RG141 coax. The PE35148LF/HS BNC male to BNC male cable assembly operates to 4 GHz.

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
Jacket Spark			2,000	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	4000	
PE35148LF/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.039	0.054	0.079	0.13	0.303	dB/ft	
			0.13	0.18	0.26	0.43	1	dB/m	
PE35148LF/HS-12	12 In	Insertion Loss (Typ.)	0.24	0.26	0.28	0.33	0.51	dB	0.087
PE35148LF/HS-24	24 In	Insertion Loss (Typ.)	0.28	0.31	0.36	0.46	0.81	dB	0.12
PE35148LF/HS-36	36 In	Insertion Loss (Typ.)	0.32	0.37	0.44	0.59	1.11	dB	0.153
PE35148LF/HS-48	48 In	Insertion Loss (Typ.)	0.36	0.42	0.52	0.72	1.42	dB	0.186
PE35148LF/HS-60	60 In	Insertion Loss (Typ.)	0.4	0.47	0.6	0.85	1.72	dB	0.219

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:	0.087 pounds
Additional Weight per Inch:	0.00275 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.054 lbs [24.49 g]

Cable

Cable Type	RG141
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper
Jacket Material	PTFE (FG), Beige
Jacket Diameter	0.19 in [4.83 mm]

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Connectors

Description	Connector 1	Connector 2
Type	BNC 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	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	90 µin minimum	90 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Seal Gasket Material	Silicone	Silicone

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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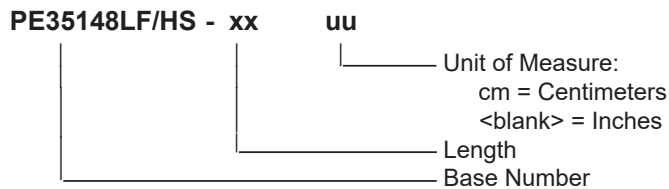


PE35148LF/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE35148LF/HS-12 = 12 inches long cable
PE35148LF/HS-100cm = 100 cm long cable

BNC Male to BNC Male Cable Using RG141 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.

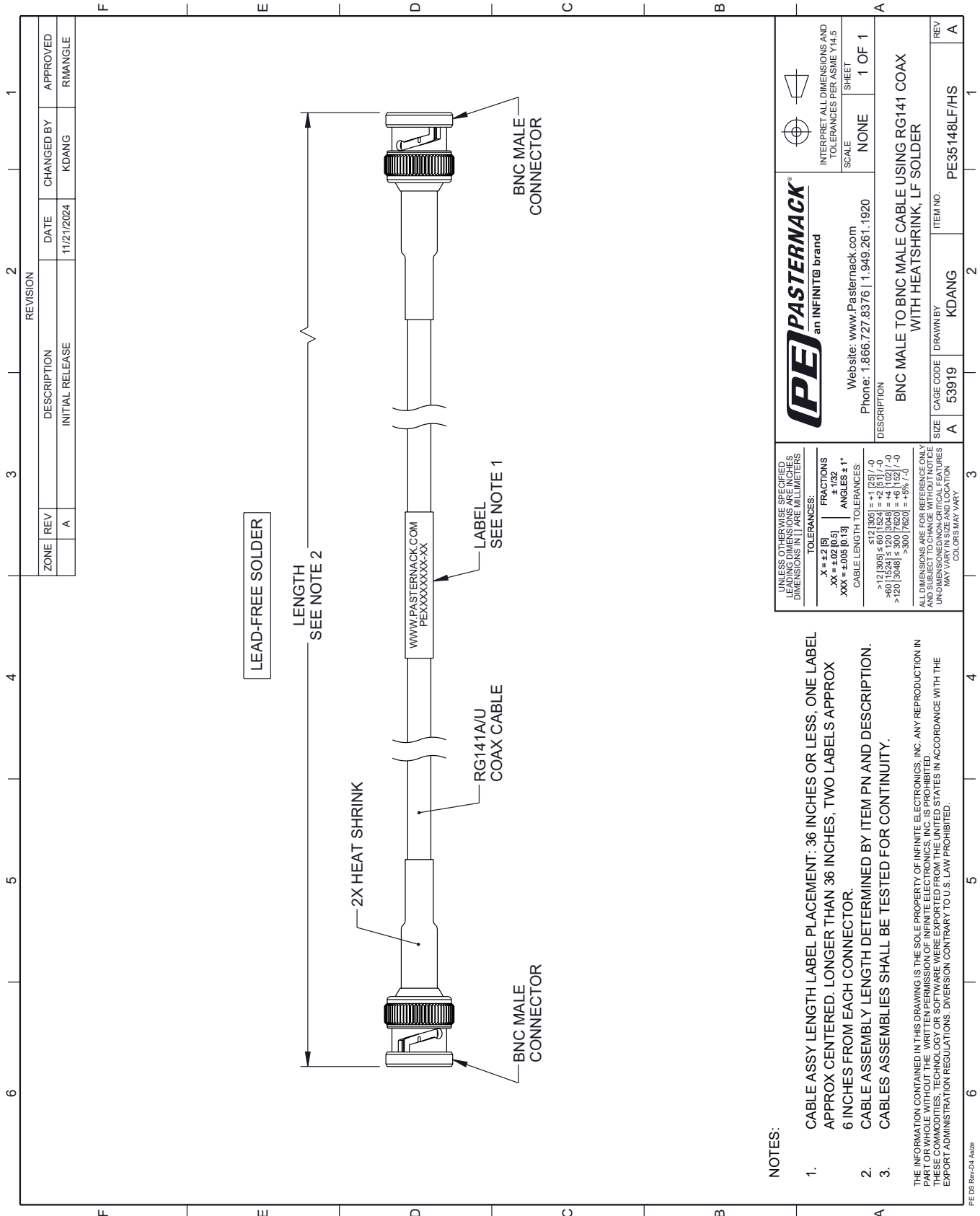
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Male Cable Using RG141 Coax with HeatShrink, LF Solder PE35148LF/HS](#)

URL: <https://www.pasternack.com/bnc-male-to-bnc-male-cable-using-rg141-with-heatshrink-lf-solder-pe35148lf-hs-p.aspx>

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PE35148LF/HS CAD Drawing

BNC Male to BNC Male Cable Using RG141 Coax with HeatShrink, LF Solder



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	INITIAL RELEASE	KDANG	RMANGLE
	A	11/21/2024		

PASTERNAK an INFINITB brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		
DESCRIPTION BNC MALE TO BNC MALE CABLE USING RG141 COAX WITH HEATSHRINK, LF SOLDER		
SIZE	CAGE CODE	ITEM NO.
A	53919	PE35148LF/HS
REV	A	

NOTES:

- CABLE ASSY LENGTH LABEL PLACEMENT: .36 INCHES OR LESS, ONE LABEL APPROX CENTERED, LONGER THAN .36 INCHES, TWO LABELS APPROX .6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
 .X = ±.2 [5]
 .XX = ±.02 [0.5]
 .XXX = ±.005 [0.13]
 FRACTIONS ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 <12 [305] ±.60 [1524] = +2 [51] / -0
 >12 [305] ±.60 [1524] = +4 [102] / -0
 >20 [508] ±.30 [762] = +5% / -0
 >30 [762] ±.30 [762] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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