

BNC Male to BNC Female Bulkhead Cable Using RG316 Coax, LF Solder



PE3C3446LF

Configuration

- Connector 1: BNC Male
- Connector 2: BNC Female Bulkhead
- Cable Type: RG316
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 69% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C3446LF BNC male to BNC female bulkhead cable using RG316 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 female gender configuration with 50 ohm flexible RG316 coax. The PE3C3446LF BNC male to BNC female cable assembly operates to 1 GHz. Our RF cable assembly with BNC 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.

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		1	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Operating Voltage (AC)			335	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		50	100	250	500	
PE3C3446LF	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.11	0.16	0.24	0.38	dB/ft	
			0.25	0.37	0.53	0.79	1.25	dB/m	
PE3C3446LF-12	12 inch	Insertion Loss (Typ.)	0.28	0.31	0.36	0.44	0.58	dB	0.082
PE3C3446LF-24	24 inch	Insertion Loss (Typ.)	0.35	0.42	0.52	0.68	0.96	dB	0.093
PE3C3446LF-36	36 inch	Insertion Loss (Typ.)	0.43	0.53	0.68	0.92	1.34	dB	0.103
PE3C3446LF-48	48 inch	Insertion Loss (Typ.)	0.5	0.64	0.84	1.16	1.72	dB	0.113
PE3C3446LF-72	72 inch	Insertion Loss (Typ.)	0.65	0.86	1.16	1.63	2.48	dB	0.133

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:	0.082 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.082 lbs [37.19 g]

Cable

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper Clad Steel, Silver
Dielectric Type	PTFE
Number of Shields	1
Shield Layer 1	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.098 in [2.49 mm]

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Connectors

Description	Connector 1	Connector 2
Type	BNC Male	BNC Female Bulkhead
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 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	
Coupling Nut Plating Specification	100 µin minimum	

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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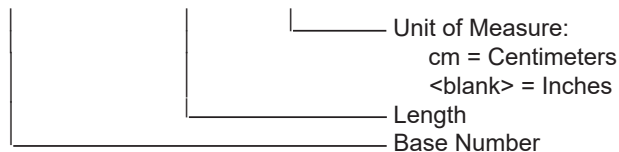
PE3C3446LF

Typical Performance Data

How to Order

Part Number Configuration:

PE3C3446LF - xx uu



Example: PE3C3446LF-12 = 12 inches long cable
PE3C3446LF-100cm = 100 cm long cable

BNC Male to BNC Female Bulkhead Cable Using RG316 Coax, 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.

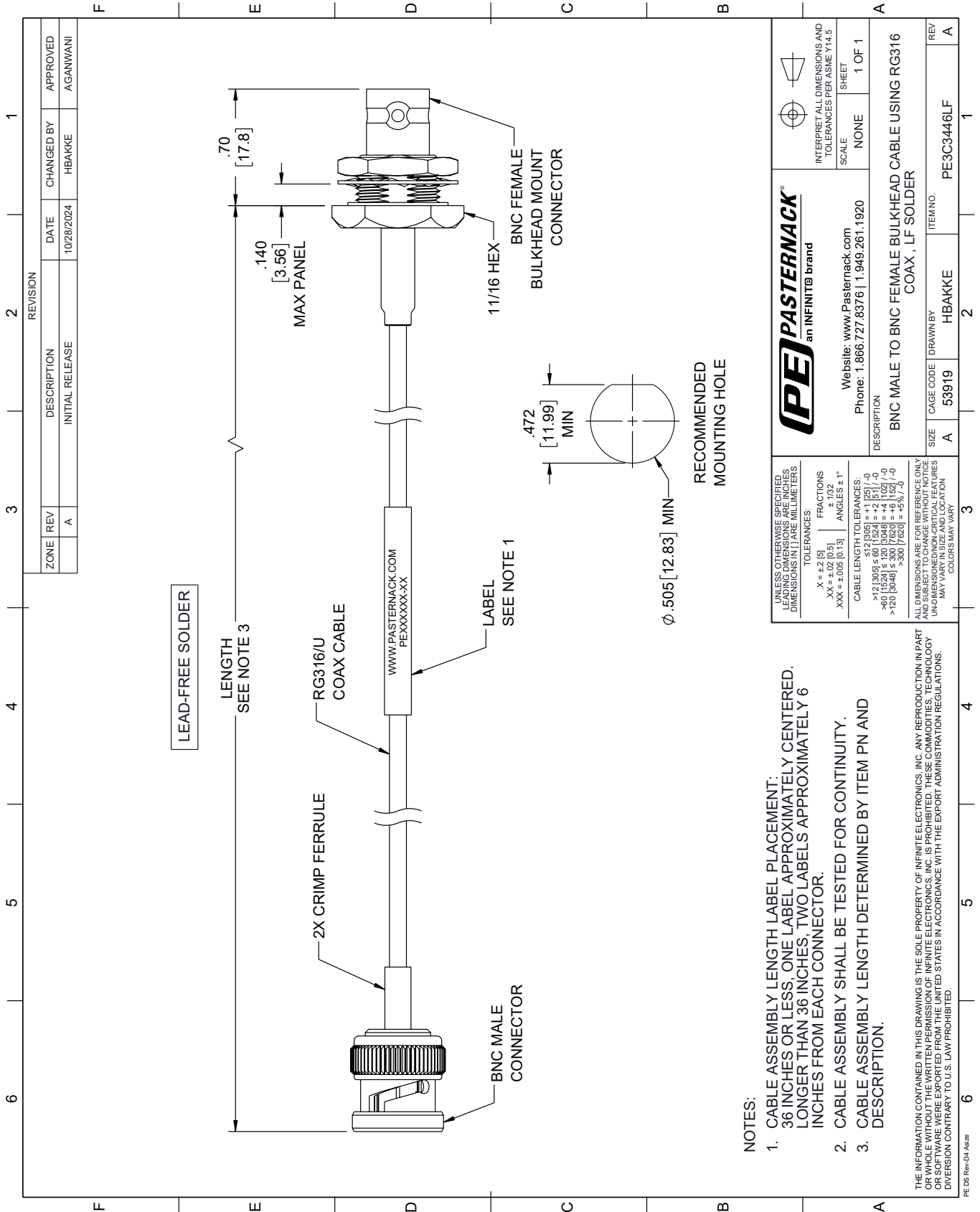
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Female Bulkhead Cable Using RG316 Coax, LF Solder PE3C3446LF](#)

URL: <https://www.pasternack.com/bnc-male-to-bnc-female-bulkhead-cable-using-rg316-lf-solder-pe3c3446lf-p.aspx>

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PE3C3446LF CAD Drawing

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NOTES:

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

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

TOLERANCES:

X = +.2 [5] FRACTIONS ± 1/32

.XX = ±.02 [0.5] ANGLES ± 1°

.XXX = ±.005 [0.13]

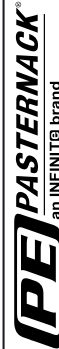
CABLE LENGTH TOLERANCES:

>12 [305] ≤ 60 [1524] = ±.1 [2.5] / -0

>60 [1524] ≤ 120 [3048] = ±.4 [10.2] / -0

>120 [3048] ≤ 300 [7620] = ±.8 [20.3] / -0

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



Website: www.Pasternack.com
 Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION: BNC MALE TO BNC FEMALE BULKHEAD CABLE USING RG316 COAX, LF SOLDER

SIZE	A	CAGE CODE	53919	DRAWN BY	HBAKKE	ITEM NO.	PE3C3446LF
REV	A						