

## SMA Male Right Angle to BNC Female Bulkhead Cable Using RG316-DS Coax, LF Solder



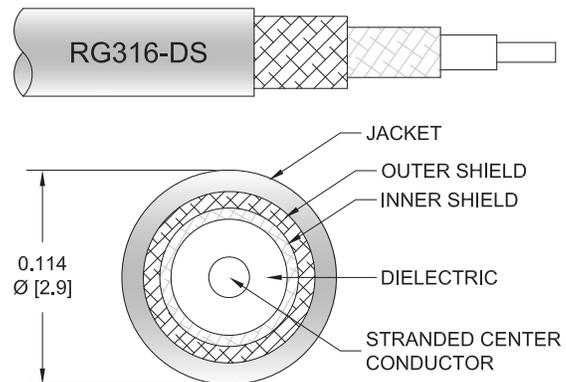
### PE3W16636LF

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: BNC Female Bulkhead
- Cable Type: RG316-DS
- Coax Flex Type: Flexible

#### Features

- Max Frequency 1 GHz
- Shielding Effectivity > 85 dB
- 69.5% Phase Velocity
- Double Shielded
- FEP Jacket



#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W16636LF SMA male right angle to BNC female bulkhead cable using RG316-DS 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 SMA to BNC cable assembly has a male to female gender configuration with 50 ohm flexible RG316-DS coax. The PE3W16636LF SMA male to BNC female cable assembly operates to 1 GHz. The right angle SMA interface on the RG316-DS cable allows for easier connections in tight spaces. 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. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 85 dB.

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		69.5		%
RF Shielding	85			dB
Capacitance		28.96 [95.01]		pF/ft [pF/m]
DC Resistance Inner Conductor		83.82 [275]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		5.33 [17.49]		Ohms/1000ft [Ohms/Km]

#### Specifications by Frequency

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**PE3W16636LF**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		50	100	250	500	
PE3W16636LF	Custom Lengths Available	Insertion Loss (Typ.)	0.04	0.08	0.13	0.19	0.29	dB/ft	
			0.14	0.28	0.43	0.64	0.96	dB/m	
PE3W16636LF-6	6 inch	Insertion Loss (Typ.)	0.33	0.35	0.37	0.4	0.45	dB	0.09
PE3W16636LF-12	12 inch	Insertion Loss (Typ.)	0.35	0.39	0.43	0.5	0.59	dB	0.097
PE3W16636LF-24	24 inch	Insertion Loss (Typ.)	0.39	0.47	0.56	0.69	0.88	dB	0.112
PE3W16636LF-36	36 inch	Insertion Loss (Typ.)	0.43	0.55	0.69	0.89	1.17	dB	0.126
PE3W16636LF-48	48 inch	Insertion Loss (Typ.)	0.47	0.64	0.82	1.08	1.46	dB	0.14

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: 0.2 dB  
 Base Weight: 0.097 pounds  
 Additional Weight per Inch: 0.00117 pounds

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.097 lbs [44 g]

**Cable**

Cable Type RG316-DS  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 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 0.114 in [2.9 mm]  
 One Time Minimum Bend Radius 0.59 in [14.99 mm]  
 Repeated Minimum Bend Radius 1.57 in [39.88 mm]

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**PE3W16636LF**

**Connectors**

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	BNC Female Bulkhead
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	50 µin minimum	
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 inch	
Torque	3 in-lbs 0.34 Nm	

**Environmental Specifications**

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

**Plotted and Other Data**

Notes:

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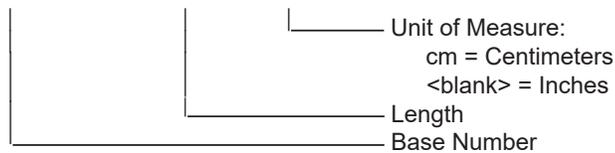
**PE3W16636LF**

**Typical Performance Data**

**How to Order**

Part Number Configuration:

**PE3W16636LF - xx uu**



Example: PE3W16636LF-12 = 12 inches long cable  
PE3W16636LF-100cm = 100 cm long cable

SMA Male Right Angle to BNC Female Bulkhead Cable Using RG316-DS 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.

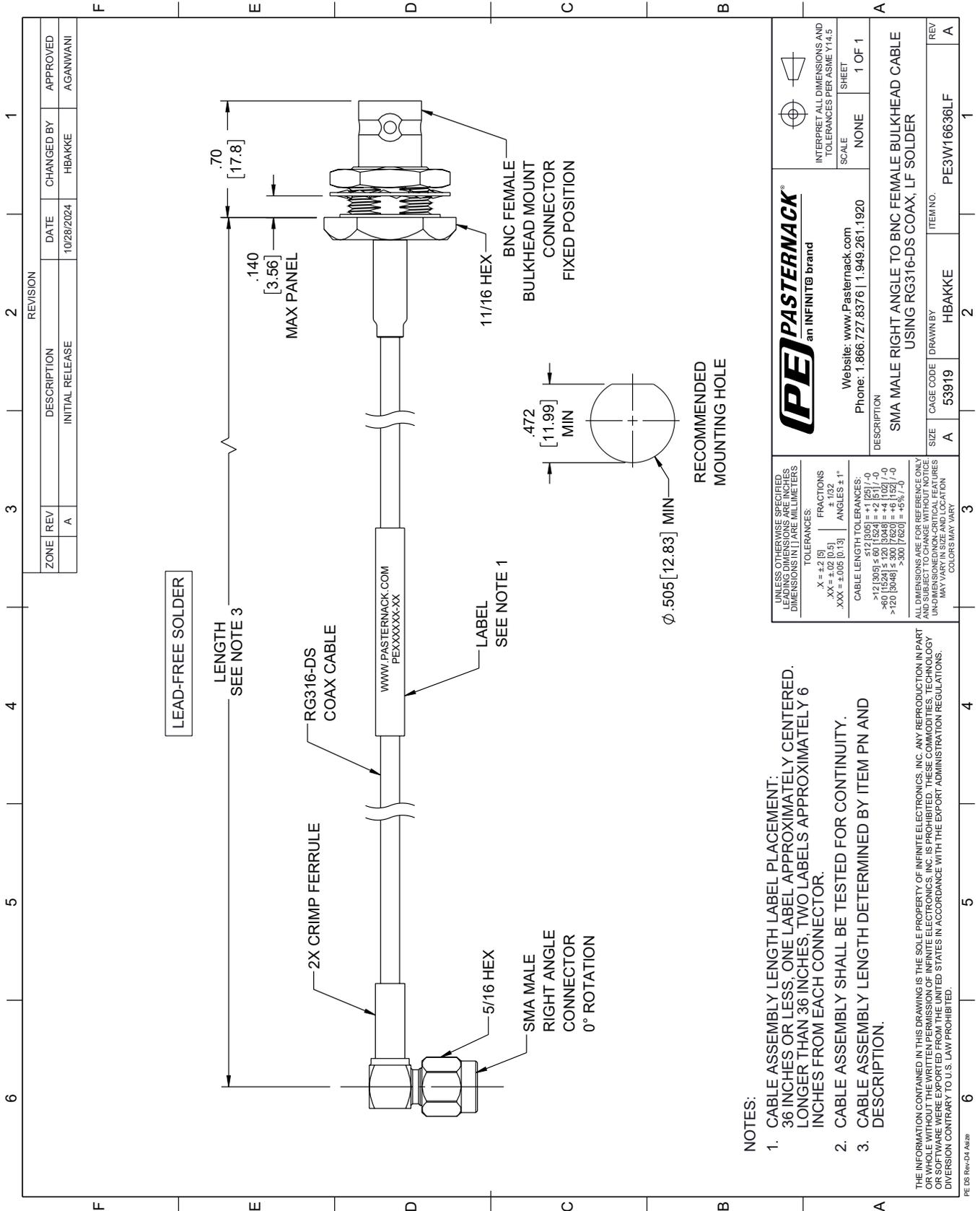
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to BNC Female Bulkhead Cable Using RG316-DS Coax, LF Solder PE3W16636LF](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-bnc-female-bulkhead-cable-using-rg316-ds-lf-solder-pe3w16636lf-p.aspx>

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# PE3W16636LF CAD Drawing

SMA Male Right Angle to BNC Female Bulkhead Cable Using RG316-DS Coax, LF Solder



- 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] = ±.6 [15.2] / -0
>300 [7620] = ±.8 [20.3] / -0

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

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE  
SHEET: 1 OF 1

DESCRIPTION: SMA MALE RIGHT ANGLE TO BNC FEMALE BULKHEAD CABLE USING RG316-DS COAX, LF SOLDER

SIZE: A	CAGE CODE: 53919	DRAWN BY: HBAKKE	ITEM NO.: PE3W16636LF
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