



HN Male Right Angle to HN Male Cable 50 cm  
Length Using RG217 Coax , LF Solder

RF Cable Assemblies Technical Data Sheet

PE3C3916LF-50CM

### Configuration

- Connector 1: HN Male Right Angle
- Connector 2: HN Male
- Cable Type: RG217

### Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

### Applications

- General Purpose
- Laboratory Use

### Description

Pasternack's PE3C3916LF-50CM HN male right angle to HN male 50 cm cable using RG217 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 HN to HN cable assembly has a male to male gender configuration with 50 ohm flexible RG217 coax. The PE3C3916LF-50CM HN male to HN male cable assembly operates to 1 GHz. The right angle HN interface on the RG217 cable allows 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: [HN Male Right Angle to HN Male Cable 50 cm Length Using RG217 Coax , LF Solder PE3C3916LF-50CM](#)



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### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.45:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			1,500	Vrms

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	50	100	250	500	1,000	MHz
Insertion Loss (Max.)	0.337	0.383	0.401	0.48	0.644	dB

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.2 dB for the HN Male Right Angle connector and 0.1 dB for the HN Male connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 19.68 in [499.87 mm]  
Diameter 0.9 in [22.86 mm]

#### Cable

Cable Type RG217  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper  
Dielectric Type PE  
Number of Shields 2  
Shield Layer 1 Copper Braid  
Shield Layer 2 Copper Braid  
Jacket Material PVC, Black  
Jacket Diameter 0.545 in [13.84 mm]

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**Connectors**

Description	Connector 1	Connector 2
Type	HN Male Right Angle	HN Male
Specification	MIL-STD-348A	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	MIL-STD-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	QQ-N-290
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	QQ-N-290	QQ-N-290

**Environmental Specifications**

**Temperature**

Operating Range -40 to +80 deg C

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

**Plotted and Other Data**

Notes:

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## RF Cable Assemblies Technical Data Sheet

PE3C3916LF-50CM

### How to Order

Part Number Configuration:

PE3C3916LF - xx uu

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C3916LF-12 = 12 inches long cable  
PE3C3916LF-100cm = 100 cm long cable

HN Male Right Angle to HN Male Cable 50 cm Length Using RG217 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.

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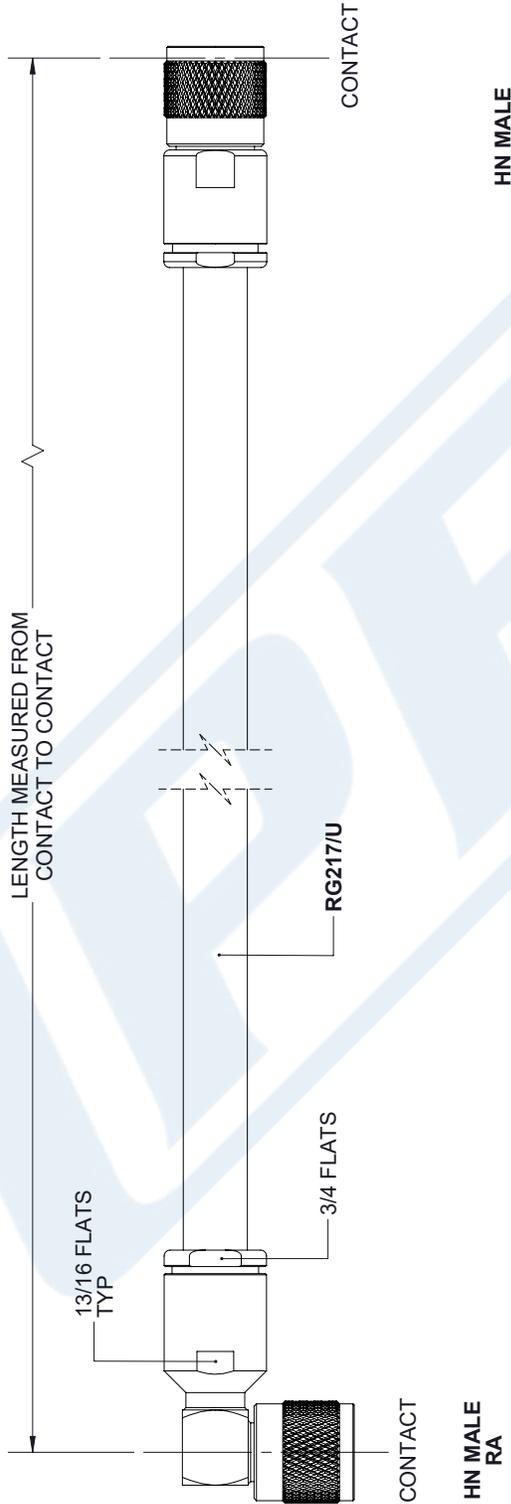
URL:

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.

# PE3C3916LF-50CM CAD Drawing

HN Male Right Angle to HN Male Cable 50 cm Length Using RG217 Coax , LF Solder

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/25/2020	S. ELLIS



<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2 [5.08]</td> <td>FRACTIONS</td> </tr> <tr> <td>.XX = ±.02 [.51]</td> <td>± 1/32</td> </tr> <tr> <td>.XXX = ±.005 [.13]</td> <td>ANGLES ± 1°</td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table border="0"> <tr> <td>L ≤ 12 [305]</td> <td>= +1 [25] / -0</td> </tr> <tr> <td>12 [305] &lt; L ≤ 60 [1524]</td> <td>= +2 [51] / -0</td> </tr> <tr> <td>60 [1524] &lt; L ≤ 120 [3048]</td> <td>= +4 [102] / -0</td> </tr> <tr> <td>120 [3048] &lt; L ≤ 300 [7620]</td> <td>= +6 [152] / -0</td> </tr> <tr> <td>300 [7620] &lt; L</td> <td>= +5% L / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	.X = ±.2 [5.08]	FRACTIONS	.XX = ±.02 [.51]	± 1/32	.XXX = ±.005 [.13]	ANGLES ± 1°	L ≤ 12 [305]	= +1 [25] / -0	12 [305] < L ≤ 60 [1524]	= +2 [51] / -0	60 [1524] < L ≤ 120 [3048]	= +4 [102] / -0	120 [3048] < L ≤ 300 [7620]	= +6 [152] / -0	300 [7620] < L	= +5% L / -0	<p><b>PE PASTERNAK</b> an INFINITO brand</p> <p>Pasternack Enterprises, Inc. P. O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920   1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
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<p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY K.DANG</p> <p>ITEM NO. PE3C3916LF</p> <p>REV. A</p>																		

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