



SMA Male to SMA Male Right Angle Flexible Cable 50 CM Length Using RG174 Coax with HeatShrink, LF Solder

RF Cable Assemblies Technical Data Sheet

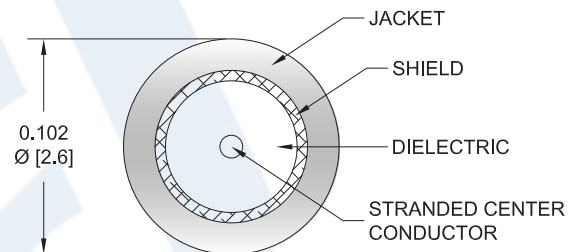
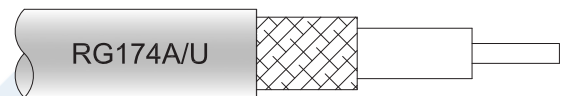
PE3420LF/HS-50CM

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male Right Angle
- Cable Type: RG174

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3420LF/HS-50CM SMA male to SMA male right angle 50 cm cable using RG174 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG174 coax. The PE3420LF/HS-50CM SMA male to SMA male cable assembly operates to 1 GHz. The right angle SMA interface on the RG174 cable allows for easier connections in tight spaces.

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: [SMA Male to SMA Male Right Angle Flexible Cable 50 CM Length Using RG174 Coax with HeatShrink, LF Solder PE3420LF/HS-50CM](#)



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Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-------------------------|---------|----------------|---------|--------------|
| Frequency Range | DC | | 1,000 | MHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 66 | | % |
| Capacitance | | 31.08 [101.97] | | pF/ft [pF/m] |
| Operating Voltage (DC) | | | 335 | Vdc |
| Input Power (Average) | | | 17 | Watts |

Specifications by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|------|------|------|-----|-------|-------|
| Frequency | 50 | 100 | 250 | 500 | 1,000 | MHz |
| Insertion Loss (Typ.) | 0.33 | 0.39 | 0.48 | 0.6 | 0.78 | dB |

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated 0.15 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]
 Diameter 0.315 in [8 mm]

Cable

Cable Type RG174
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel
 Dielectric Type PE
 Number of Shields 1
 Shield Layer 1 Tinned Copper Braid
 Jacket Material PVC, Black
 Jacket Diameter 0.11 in [2.79 mm]

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Connectors

| Description | Connector 1 | Connector 2 |
|------------------------------------|--------------------|----------------------|
| Type | SMA Male | SMA Male Right Angle |
| Specification | MIL-STD-348A | MIL-STD-348A |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material and Plating | Brass, Gold | Brass, Gold |
| Contact Plating Specification | 30 µin minimum | 50 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 | 100 µin minimum |
| Hex Size | 5/16 inch | 5/16 inch |
| Torque | 3 in-lbs [0.34 Nm] | 3 in-lbs [0.34 Nm] |

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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PE3420LF/HS-50CM

How to Order

Part Number Configuration:

PE3420LF/HS - xx uu

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

Example: PE3420LF/HS-12 = 12 inches long cable
PE3420LF/HS-100cm = 100 cm long cable

SMA Male to SMA Male Right Angle Flexible Cable 50 CM Length Using RG174 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/sma-male-sma-male-rg174au-cable-assembly-pe3420lf-hs-50cm-p.aspx>

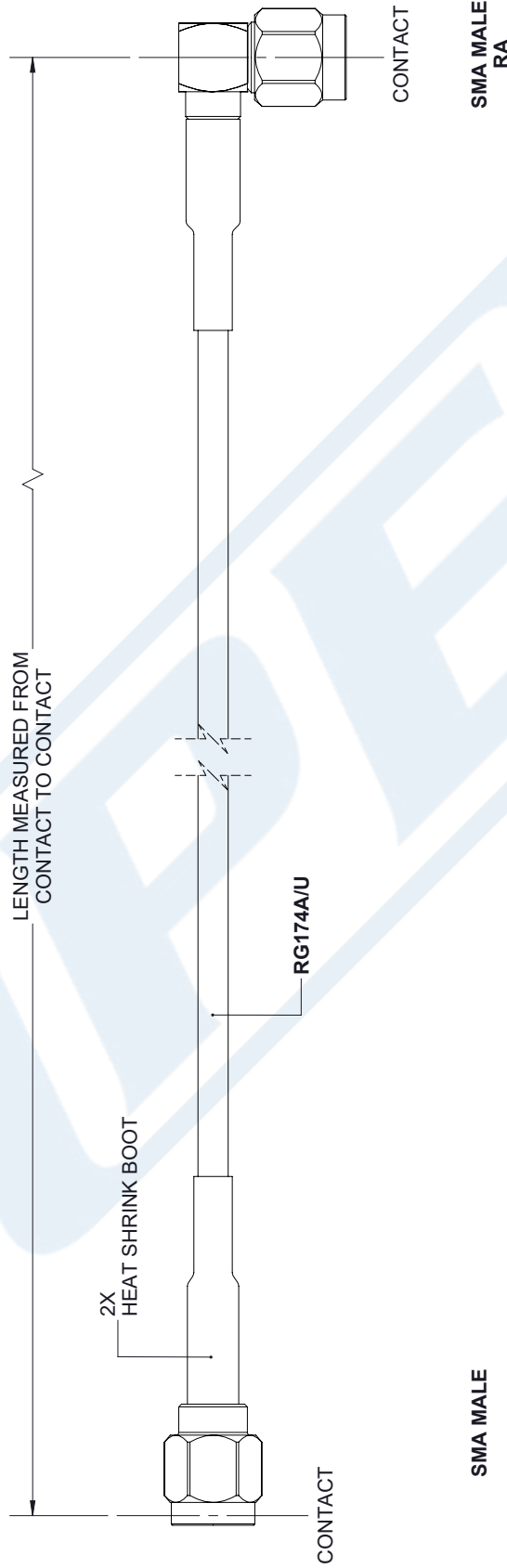
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

PE3420LF/HS-50CM CAD Drawing

SMA Male to SMA Male Right Angle Flexible Cable 50 CM

Length Using RG174 Coax with HeatShrink, LF Solder

| REVISIONS | | |
|-----------|-----------------|-----------|
| REV. | DESCRIPTION | DATE |
| A | INITIAL RELEASE | 4/14/2021 |
| | | APPROVED |
| | | S. ELLIS |



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

TOLERANCES:

| | | | |
|--------------|-------|-------------|--------|
| .X = ±.2 | [.08] | FRACTIONS | |
| .XX = ±.02 | [.51] | | ± 1/32 |
| .XXX = ±.005 | [.13] | ANGLES ± 1° | |

CABLE LENGTH (L) TOLERANCES:

| | | | | |
|--------|--------|-----------|-------------|--------------------|
| 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 |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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

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|------|-----------|----------|-------------|
| SIZE | CAGE CODE | DRAWN BY | ITEM NO. |
| A | 53919 | K. DANG | PE3420LF/HS |
| | | | REV |
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