

SMA Male Right Angle to SMA Male Right Angle Cable Using RG141 Coax with HeatShrink

PE37749/HS

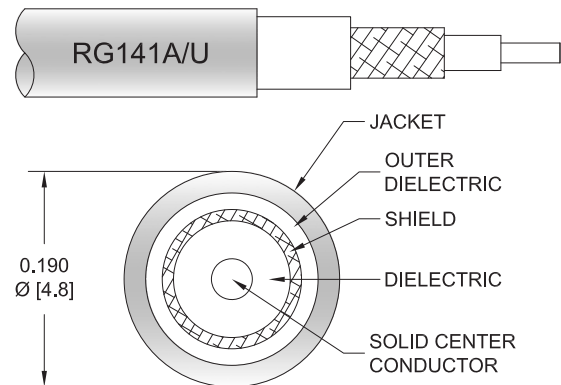


Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: RG141
- Coax Flex Type: Flexible

Features

- Max Frequency 10 GHz
- 70% Phase Velocity
- PTFE (FG) Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE37749/HS SMA male right angle to SMA male right angle 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG141 coax. The PE37749/HS SMA male to SMA male cable assembly operates to 10 GHz. The right angle SMA interfaces on the RG141 cable allow 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
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	500	1000	2500	5000	10000	MHz	
PE37749/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.079	0.13	0.216	0.36	0.62	dB/ft	
			0.26	0.43	0.71	1.19	2.04	dB/m	
PE37749/HS-12	12 inch	Insertion Loss (Typ.)	0.48	0.53	0.62	0.76	1.02	dB	0.067
PE37749/HS-24	24 inch	Insertion Loss (Typ.)	0.56	0.66	0.84	1.12	1.64	dB	0.1
PE37749/HS-36	36 inch	Insertion Loss (Typ.)	0.64	0.79	1.05	1.48	2.26	dB	0.133
PE37749/HS-48	48 inch	Insertion Loss (Typ.)	0.72	0.92	1.27	1.84	2.88	dB	0.166
PE37749/HS-60	60 inch	Insertion Loss (Typ.)	0.8	1.05	1.48	2.2	3.5	dB	0.199

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: 0.2 dB
 Loss due to Connector 2: 0.2 dB
 Base Weight: 0.067 pounds
 Additional Weight per Inch: 0.00275 pounds

Mechanical Specifications

Cable Assembly

Weight 0.067 lbs [30.39 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	SMA Male Right Angle	SMA Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 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

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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PE37749/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE37749/HS - xx uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number

Example: PE37749/HS-12 = 12 inches long cable
PE37749/HS-100cm = 100 cm long cable

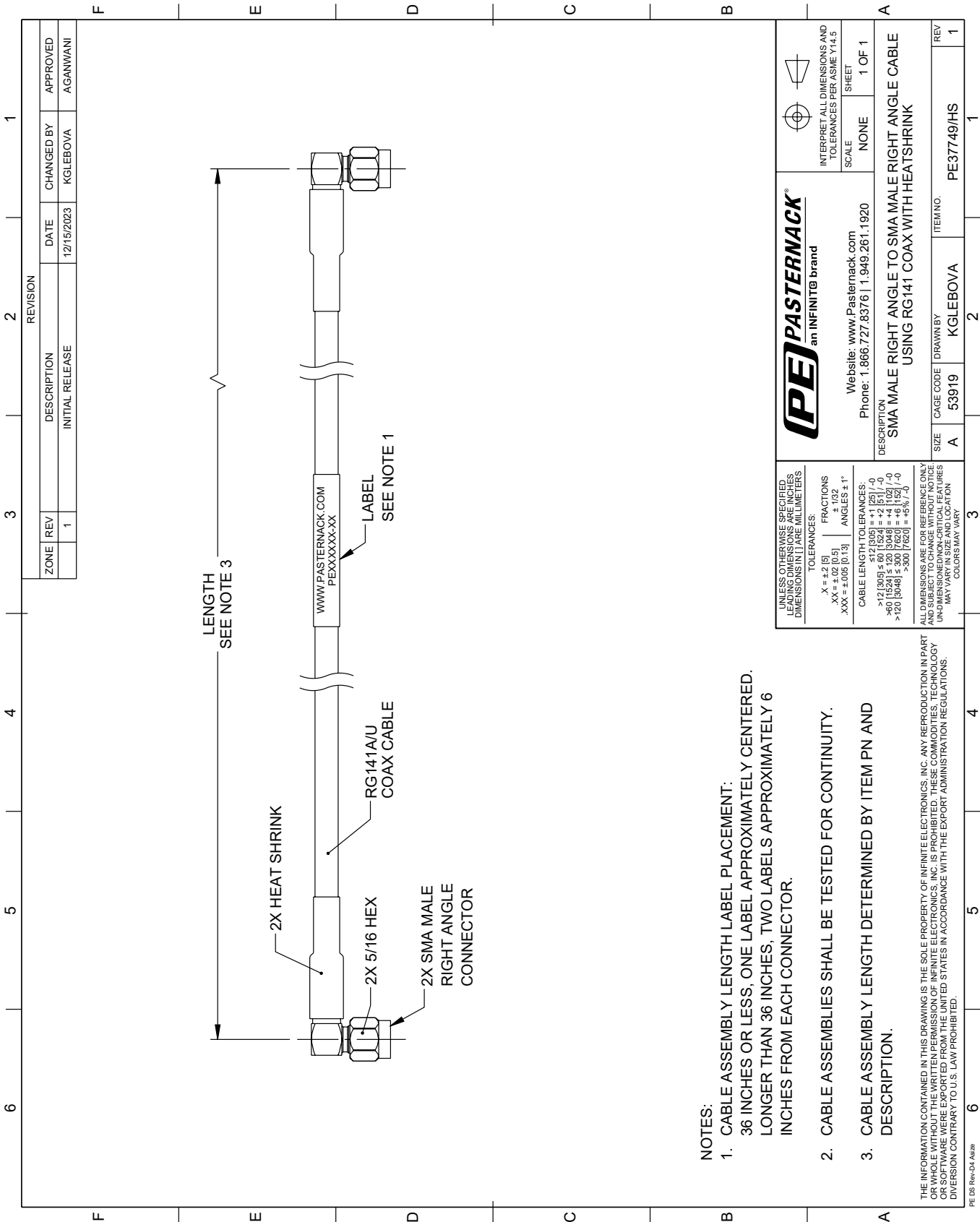
SMA Male Right Angle to SMA Male Right Angle Cable Using RG141 Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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 SMA Male Right Angle Cable Using RG141 Coax with HeatShrink PE37749/HS](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-sma-male-cable-using-rg141-with-heatshrink-pe37749-hs-p.aspx>

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PE37749/HS 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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
 - 3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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