

SMA Male Right Angle to SMA Female Bulkhead Cable Using RG142 Coax with HeatShrink



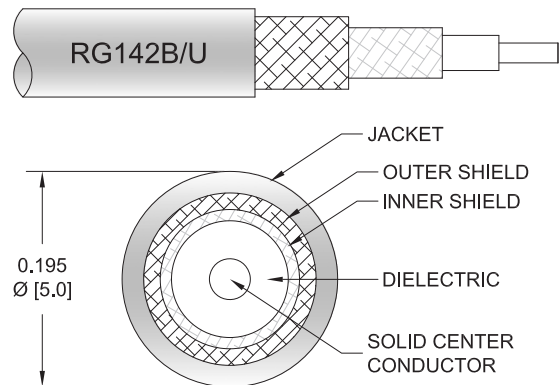
PE3759/HS

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Female Bulkhead
- Cable Type: RG142
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- 70% Phase Velocity
- Double Shielded
- FEP Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3759/HS SMA male right angle to SMA female bulkhead cable using RG142 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 female gender configuration with 50 ohm flexible RG142 coax. The PE3759/HS SMA male to SMA female cable assembly operates to 8 GHz. The right angle SMA interface on the RG142 cable allows for easier connections in tight spaces. Our RF cable assembly with SMA 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.

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		8	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

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PE3759/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		500	1000	2000	4000	
PE3759/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.09	0.13	0.18	0.28	0.442	dB/ft	
			0.29	0.43	0.61	0.92	1.45	dB/m	
PE3759/HS-12	12 inch	Insertion Loss (Typ.)	0.39	0.43	0.49	0.58	0.75	dB	0.074
PE3759/HS-24	24 inch	Insertion Loss (Typ.)	0.48	0.56	0.67	0.86	1.19	dB	0.116
PE3759/HS-36	36 inch	Insertion Loss (Typ.)	0.57	0.69	0.86	1.14	1.63	dB	0.158
PE3759/HS-48	48 inch	Insertion Loss (Typ.)	0.65	0.82	1.04	1.42	2.07	dB	0.2
PE3759/HS-60	60 inch	Insertion Loss (Typ.)	0.74	0.95	1.22	1.7	2.51	dB	0.242

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: 0.1 dB
 Base Weight: 0.074 pounds
 Additional Weight per Inch: 0.0035 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.032 lbs [14.51 g]

Cable

Cable Type RG142
 Impedance 50 Ohms
 Inner Conductor Type Solid
 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 0.195 in [4.95 mm]
 Repeated Minimum Bend Radius 1 in [25.4 mm]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Female Bulkhead
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, 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	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	5/16 inch	
Torque	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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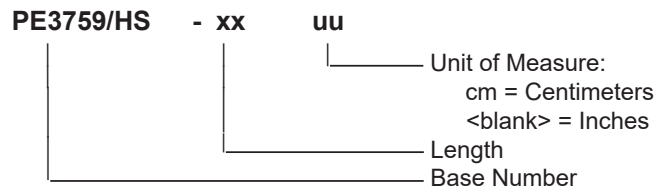


PE3759/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3759/HS-12 = 12 inches long cable
PE3759/HS-100cm = 100 cm long cable

SMA Male Right Angle to SMA Female Bulkhead Cable Using RG142 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.

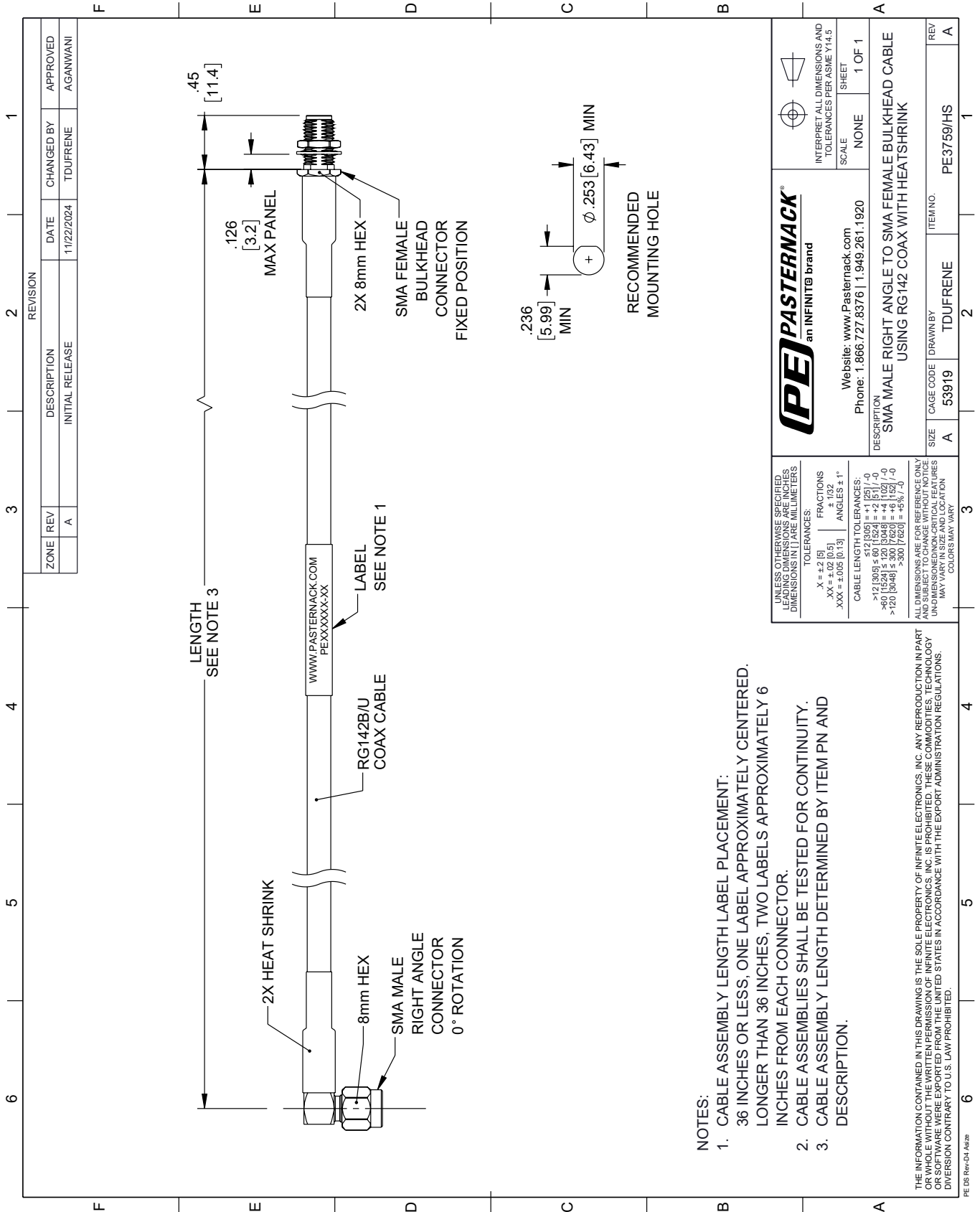
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to SMA Female Bulkhead Cable Using RG142 Coax with HeatShrink PE3759/HS](#)

URL: <https://www.pasternack.com/sma-male-right-angle-to-sma-female-bulkhead-cable-using-rg142-with-heatshrink-pe3759-hs-p.aspx>

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PE3759/HS CAD Drawing

SMA Male Right Angle to SMA Female Bulkhead Cable Using RG142 Coax with HeatShrink

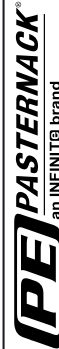


NOTES:

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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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	± 1/64
.XXX = ±.005 [0.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
<12 [305]	±.1 [25]
>12 [305] ≤ 60 [1524]	±.2 [5]
>60 [1524] ≤ 120 [3048]	±.4 [102]
>120 [3048]	±.8 [20]
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED 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
SMA MALE RIGHT ANGLE TO SMA FEMALE BULKHEAD CABLE USING RG142 COAX WITH HEATSHRINK

SIZE	A	CAGE CODE	53919	DRAWN BY	TDUFRENE	ITEM NO.	PE3759/HS	REV	A
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REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE <td>CHANGED BY</td> <td>APPROVED</td>	CHANGED BY	APPROVED
	A	INITIAL RELEASE	11/22/2024	TDUFRENE	AGANWANI