

SMA Male to SMA Male Cable Using RG142 Coax with HeatShrink



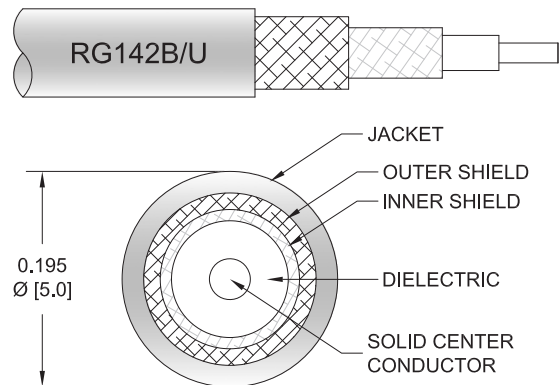
PE3385/HS

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- 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 PE3385/HS SMA male to SMA male 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 male gender configuration with 50 ohm flexible RG142 coax. The PE3385/HS SMA male to SMA male cable assembly operates to 8 GHz. 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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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	500	1000	2000	4000	8000	
PE3385/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	
PE3385/HS-12	12 inch	Insertion Loss (Typ.)	0.29	0.33	0.39	0.48	0.65	dB	0.072
PE3385/HS-24	24 inch	Insertion Loss (Typ.)	0.38	0.46	0.57	0.76	1.09	dB	0.114
PE3385/HS-36	36 inch	Insertion Loss (Typ.)	0.47	0.59	0.76	1.04	1.53	dB	0.156
PE3385/HS-48	48 inch	Insertion Loss (Typ.)	0.55	0.72	0.94	1.32	1.97	dB	0.198
PE3385/HS-60	60 inch	Insertion Loss (Typ.)	0.64	0.85	1.12	1.6	2.41	dB	0.24

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:	0.1 dB
Base Weight:	0.072 pounds
Additional Weight per Inch:	0.0035 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.03 lbs [13.61 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	SMA Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
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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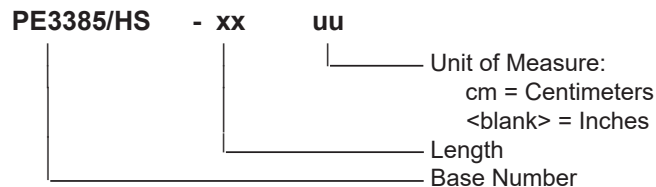


PE3385/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3385/HS-12 = 12 inches long cable
PE3385/HS-100cm = 100 cm long cable

SMA Male to SMA Male 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.

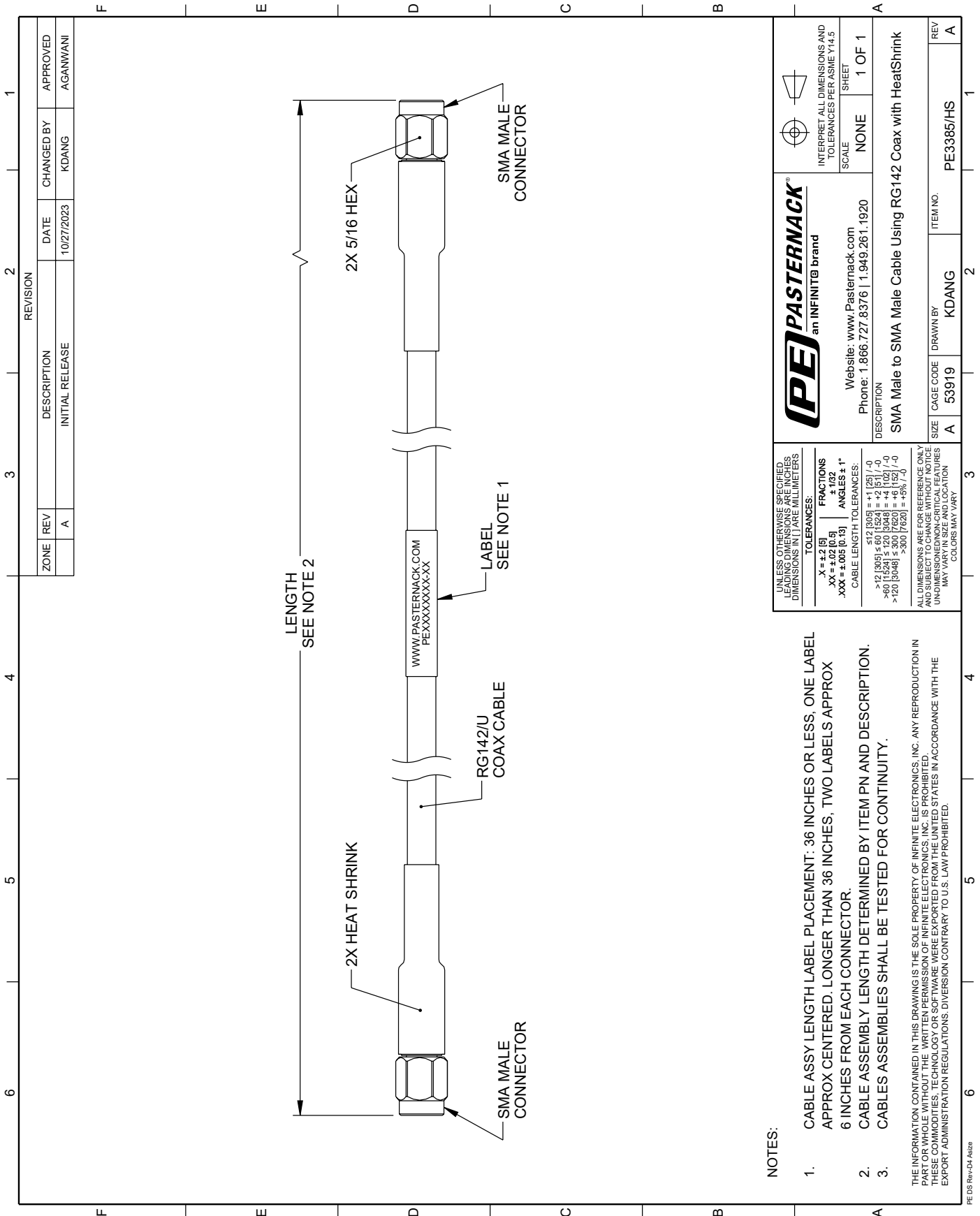
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to SMA Male Cable Using RG142 Coax with HeatShrink PE3385/HS](#)

URL: <https://www.pasternack.com/sma-male-to-sma-male-cable-using-rg142-with-heatshrink-pe3385-hs-p.aspx>

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PE3385/HS CAD Drawing

SMA Male to SMA Male Cable Using RG142 Coax with HeatShrink



ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
		A	INITIAL RELEASE	10/27/2023	KDANG	AGANWANI

REVISION	
1	
2	
3	
4	
5	
6	

	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
	Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920
DESCRIPTION: SMA Male to SMA Male Cable Using RG142 Coax with HeatShrink	
SIZE: A	CAGE CODE: 53919
DRAWN BY: KDANG	ITEM NO.: PE3385/HS
REV: A	REV: A

NOTES:

- CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
- CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
- CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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 [25] / -0
 >60 [1524] ≤120 [3048] = +4 [102] / -0
 >120 [3048] ≤300 [7620] = +6 [152] / -0
 >300 [7620] = +9% / -0
 ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. DIMENSIONS IN MILLIMETERS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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