

N Female Bulkhead to SMA Male Cable Using RG142 Coax with HeatShrink



PE3345/HS

Configuration

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

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 70 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

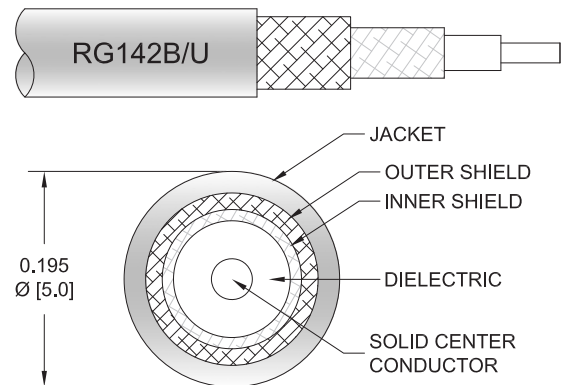
Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3345/HS type N female bulkhead 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 type N to SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG142 coax. The PE3345/HS type N female to SMA male cable assembly operates to 6 GHz. Our RF cable assembly with type N 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 of better than 70 dB.

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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	70			dB
Capacitance		96.45 [316.44]		pF/ft [pF/m]
DC Resistance Inner Conductor		65 [213.25]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9 [29.53]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			500	Vrms

Specifications by Frequency

N Female Bulkhead to SMA Male Cable Using RG142 Coax with HeatShrink



PE3345/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		250	500	1000	2500	
PE3345/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.06	0.09	0.13	0.21	0.368	dB/ft	
			0.2	0.29	0.43	0.7	1.21	dB/m	
PE3345/HS-12	12 inch	Insertion Loss (Typ.)	0.26	0.29	0.33	0.42	0.57	dB	0.144
PE3345/HS-24	24 inch	Insertion Loss (Typ.)	0.32	0.38	0.46	0.63	0.94	dB	0.186
PE3345/HS-36	36 inch	Insertion Loss (Typ.)	0.38	0.47	0.59	0.84	1.31	dB	0.228
PE3345/HS-48	48 inch	Insertion Loss (Typ.)	0.44	0.55	0.72	1.05	1.68	dB	0.27
PE3345/HS-60	60 inch	Insertion Loss (Typ.)	0.5	0.64	0.85	1.26	2.05	dB	0.312

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:	0.144 pounds
Additional Weight per Inch:	0.0035 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.102 lbs [46.27 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]
One Time Minimum Bend Radius	0.98 in [24.89 mm]
Repeated Minimum Bend Radius	1.97 in [50.04 mm]

N Female Bulkhead to SMA Male Cable Using RG142 Coax with HeatShrink



PE3345/HS

Connectors

Description	Connector 1	Connector 2
Type	N Female Bulkhead	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	30 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating	Brass, Nickel	
Outer Conductor Plating Specification	100 µin minimum	
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:

N Female Bulkhead to SMA Male Cable Using RG142 Coax with HeatShrink

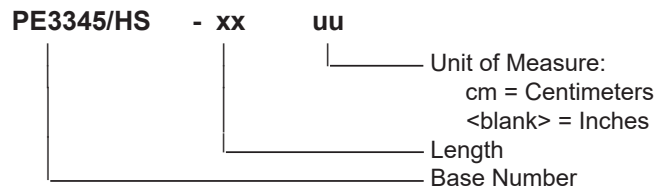


PE3345/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3345/HS-12 = 12 inches long cable
PE3345/HS-100cm = 100 cm long cable

N Female Bulkhead 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: [N Female Bulkhead to SMA Male Cable Using RG142 Coax with HeatShrink PE3345/HS](#)

URL: <https://www.pasternack.com/n-female-bulkhead-to-sma-male-cable-using-rg142-with-heatshrink-pe3345-hs-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

