

## HN Male to SC Male Cable Using RG225 Coax



### PE3W05857

#### Configuration

- Connector 1: HN Male
- Connector 2: SC Male
- Cable Type: RG225
- Coax Flex Type: Flexible

#### Features

- Max Frequency 3 GHz
- 70% Phase Velocity
- Double Shielded
- PTFE (FG) Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W05857 HN male to SC male cable using RG225 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 HN to SC cable assembly has a male to male gender configuration with 50 ohm flexible RG225 coax. The PE3W05857 HN male to SC male cable assembly operates to 3 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		3	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
Operating Voltage (AC)			1,000	Vrms

#### Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency	100	250	500	1000	3000	
PE3W05857	Custom Lengths Available	Insertion Loss (Typ.)	0.02	0.03	0.04	0.07	0.14	dB/ft	
			0.07	0.1	0.14	0.23	0.46	dB/m	
PE3W05857-24	24 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.34	0.48	dB	0.538
PE3W05857-36	36 inch	Insertion Loss (Typ.)	0.26	0.29	0.32	0.41	0.62	dB	0.711
PE3W05857-48	48 inch	Insertion Loss (Typ.)	0.28	0.32	0.36	0.48	0.76	dB	0.884
PE3W05857-60	60 inch	Insertion Loss (Typ.)	0.3	0.35	0.4	0.55	0.9	dB	1.057
PE3W05857-72	72 inch	Insertion Loss (Typ.)	0.32	0.38	0.44	0.62	1.04	dB	1.23

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:	0.364 pounds
Additional Weight per Inch:	0.01442 pounds

### Mechanical Specifications

#### Cable Assembly

Weight 0.364 lbs [165.11 g]

#### Cable

Cable Type	RG225
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Silver
Dielectric Type	PTFE
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	PTFE (FG), Tan
Jacket Diameter	0.43 in [10.92 mm]

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#### Connectors

Description	Connector 1	Connector 2
Type	HN Male	SC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Silver
Contact Plating Specification	30 µin minimum	200 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

#### Environmental Specifications

Operating Range Temperature -55 to +165 deg C

**Compliance Certifications** (see [product page](#) for current document)

#### Plotted and Other Data

Notes:

## HN Male to SC Male Cable Using RG225 Coax



### PE3W05857

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W05857**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W05857-12 = 12 inches long cable  
PE3W05857-100cm = 100 cm long cable

HN Male to SC Male Cable Using RG225 Coax 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: [HN Male to SC Male Cable Using RG225 Coax PE3W05857](#)

URL: <https://www.pasternack.com/hn-male-to-sc-male-cable-using-rg225-pe3w05857-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.

# PE3W05857 CAD Drawing

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