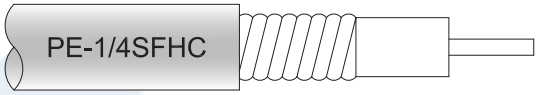
PASTERNACK
an INFINITE brand

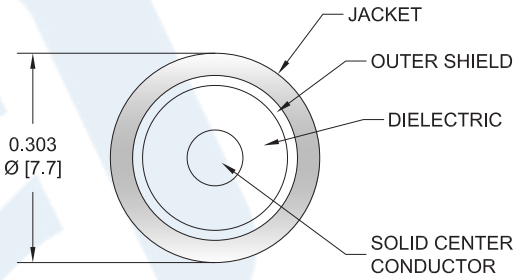
2.2-5 Male to 2.2-5 Female Bulkhead Cable 150 Cm Length Using 1/4 inch Superflexible Coax

RF Cable Assemblies Technical Data Sheet PE3C7859-150CM

Configuration

- Connector 1: 2.2-5 Male
- Connector 2: 2.2-5 Female Bulkhead
- Cable Type: 1/4” Superflexible





Features

- Max Frequency 6 GHz
- Low PIM: -150 dBc Max
- Shielding Effectivity > 120 dB
- 82% Phase Velocity
- PE Jacket
- Low PIM and Low Loss
- 100% Tested with PIM Test Results Marked on Cable

Applications

- General Purpose
- Laboratory Use
- Distributed Antenna Systems (DAS)
- Low PIM Applications and PIM Testing

Description

Pasternack’s PE3C7859-150CM 2.2-5 male to 2.2-5 female bulkhead 150 cm cable using 1/4 inch superflexible coax is part of our full line of RF components available for same-day shipping. Pasternack’s corrugated RF cable assemblies are ideal for applications where durability and high power are needed. This Pasternack 2.2-5 to 2.2-5 cable assembly has a male to female gender configuration with 50 ohm corrugated 1/4” superflexible coax. The PE3C7859-150CM 2.2-5 male to 2.2-5 female cable assembly operates to 6 GHz. Our RF cable assembly with 2.2-5 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.

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.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 2.2-5 Male to 2.2-5 Female Bulkhead Cable 150 Cm Length Using 1/4 inch Superflexible Coax PE3C7859-150CM

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.5:1	
Velocity of Propagation		82		%
RF Shielding	120			dB
Passive Intermodulation			-150	dBc
Capacitance		24.4 [80.05]		pF/ft [pF/m]
Inductance		0.059 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		2.53 [8.3]		Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.28	0.33	0.39	0.48	0.72	dB

Electrical Specification Notes:
The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

Length*	59.06 in [150.01 cm]
Diameter	0.7 in [17.78 mm]

Cable

Cable Type	1/4” Superflexible
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	PE (F)
Number of Shields	1
Shield Layer 1	Helically Corrugated Copper Tube
Jacket Material	PE, Black
Jacket Diameter	0.303 in [7.7 mm]

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One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Typical Flex Cycles	20
Tensile Strength	79 lbs [35.83 Kg]

Connectors

Description	Connector 1	Connector 2
Type	2.2-5 Male	2.2-5 Female Bulkhead
Specification	2.2-5	2.2-5
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Bronze, Silver
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration: **PE3C7859 - xx uu**

- **uu** — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- **xx** — Length
- **PE3C7859** — Base Number

Example: PE3C7859-12 = 12 inches long cable
PE3C7859-100cm = 100 cm long cable

2.2-5 Male to 2.2-5 Female Bulkhead Cable 150 Cm Length Using 1/4 inch Superflexible 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.

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URL: https://www.pasternack.com/2.2-5-male-2.2-5-female-pe-1-4-sfhc-cable-assembly-pe3c7859-p.aspx

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

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PE3C7859-150CM CAD Drawing

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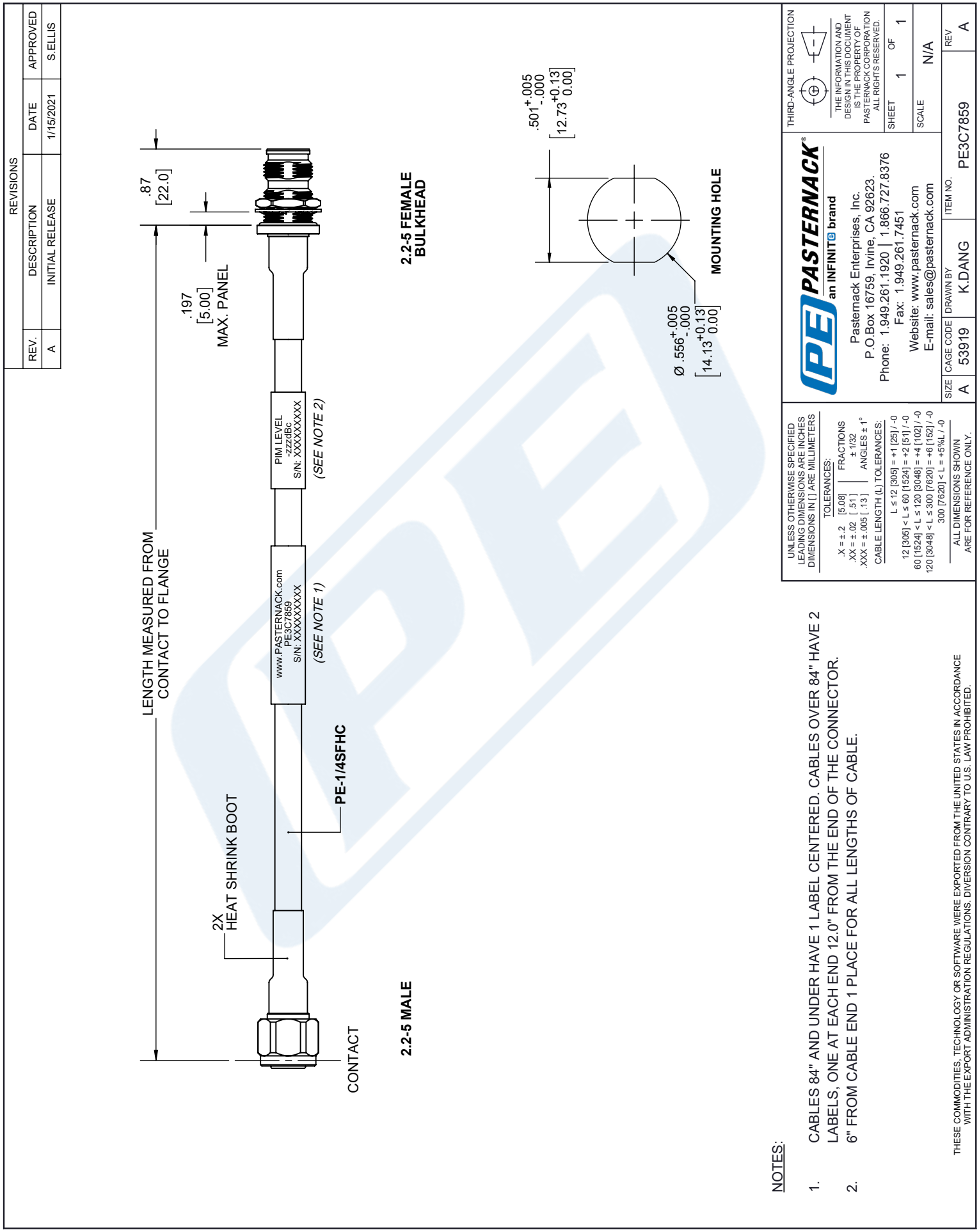
Length Using 1/4 inch Superflexible Coax



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