



Fire Rated 4.3-10 Male to NEX10 Male Low PIM  
Cable Using SPF-250 Coax with HeatShrink

## RF Cable Assemblies Technical Data Sheet

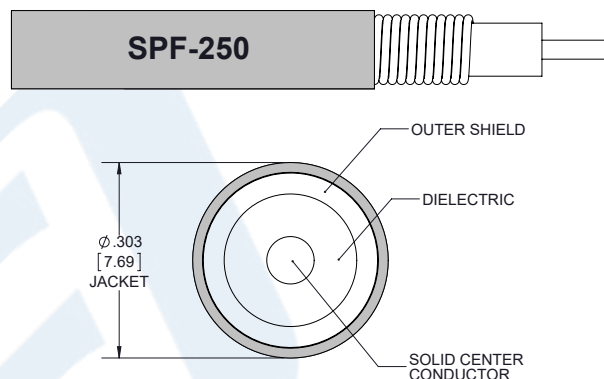
**PE3C8655/HS**

### Configuration

- Connector 1: 4.3-10 Male
- Connector 2: NEX10 Male
- Cable Type: SPF-250

### Features

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- FRPE Jacket



### Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

### Description

Pasternack's PE3C8655/HS 4.3-10 male to NEX10 male cable using SPF-250 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 4.3-10 to NEX10 cable assembly has a male to male gender configuration with 50 ohm corrugated SPF-250 coax. The PE3C8655/HS 4.3-10 male to NEX10 male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -160 dBc.

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		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation			-160	dBc

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Fire Rated 4.3-10 Male to NEX10 Male Low PIM Cable Using SPF-250 Coax with HeatShrink PE3C8655/HS](#)



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Capacitance	24 [78.74]	pF/ft [pF/m]
Inductance	0.054 [0.18]	uH/ft [uH/m]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2.5	5.8		GHz
Insertion Loss (Typ.)	0.042	0.06	0.103	0.166		dB/ft
	0.14	0.2	0.34	0.54		dB/m

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Weight 0.157 lbs [71.21 g]

#### Cable

Cable Type SPF-250  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Aluminum  
Dielectric Type Foam PE  
Number of Shields 1  
Outer Conductor Material and Plating Copper  
Jacket Material FRPE, Black  
Jacket Diameter 0.303 in [7.7 mm]

One Time Minimum Bend Radius 1.25 in [31.75 mm]  
Bending Moment 0.5 lbs-ft [0.68 N-m]

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### Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Male	NEX10 Male
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	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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## RF Cable Assemblies Technical Data Sheet

**PE3C8655/HS**

### How to Order

Part Number Configuration:

**PE3C8655/HS**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3C8655/HS-12 = 12 inches long cable  
PE3C8655/HS-100cm = 100 cm long cable

Fire Rated 4.3-10 Male to NEX10 Male Low PIM Cable Using SPF-250 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.

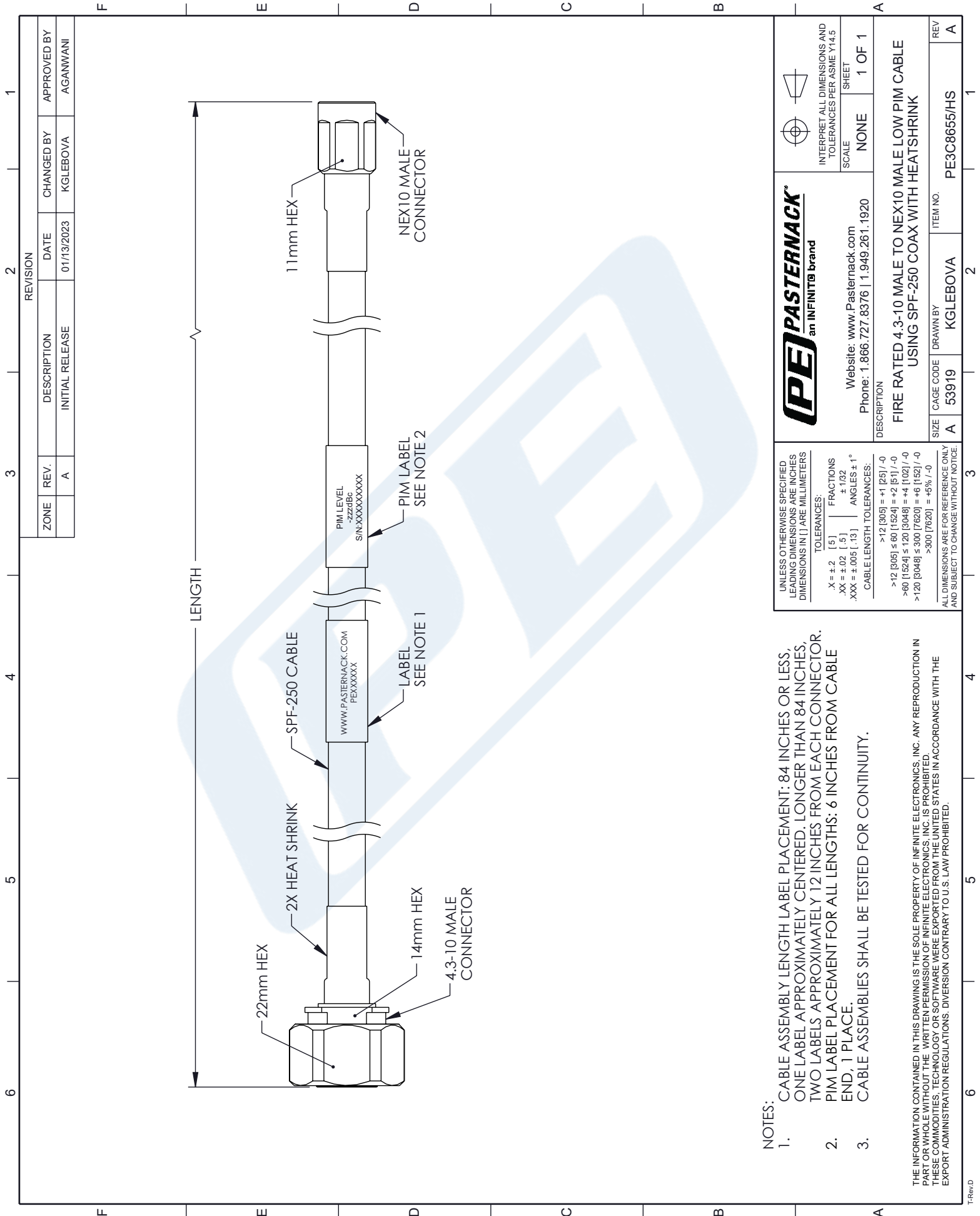
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URL: <https://www.pasternack.com/fire-rated-4.3-10-male-to-nex10-male-low-pim-cable-using-spf-250-with-heatshrink-pe3c8655-hs-p.aspx>

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# PE3C8655/HS CAD Drawing

Fire Rated 4.3-10 Male to NEX10 Male Low PIM Cable  
Using SPF-250 Coax with HeatShrink



## NOTES:

- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 84 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 84 INCHES, TWO LABELS APPROXIMATELY 12 INCHES FROM EACH CONNECTOR.
- PIM LABEL PLACEMENT FOR ALL LENGTHS: 6 INCHES FROM CABLE END, 1 PLACE.
- CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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 <b>PASTERNAK</b> an INFINITE brand		 INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
Website: <a href="http://www.Pasternack.com">www.Pasternack.com</a> Phone: 1.866.727.8376   1.949.261.1920		SCALE NONE	SHEET 1 OF 1
DESCRIPTION <b>FIRE RATED 4.3-10 MALE TO NEX10 MALE LOW PIM CABLE USING SPF-250 COAX WITH HEATSHRINK</b>			
SIZE A	CAGE CODE 53919	DRAWN BY KGLEBOVA	ITEM NO. PE3C8655/HS
REV A		REV A	

UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ±.2 [ .5 ] FRACTIONS  
 .XX = ±.02 [ .5 ] ±.1/32  
 .XXX = ±.005 [ .13 ] ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 >12 [305] = +1 [25] / -0  
 >12 [305] ≤ 60 [1524] = +2 [51] / -0  
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = +6 [152] / -0  
 >300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY  
AND SUBJECT TO CHANGE WITHOUT NOTICE.