

Plenum 4.3-10 Male Right Angle to SMA Male Low PIM
Cable 50 CM Length Using SPP-250-LLPL Coax



PE3C7884-50CM

Configuration

- Connector 1: 4.3-10 Male Right Angle
- Connector 2: SMA Male
- Cable Type: SPP-250-LLPL
- Coax Flex Type: Corrugated

Features

- Max Frequency 5.8 GHz
- Low PIM: -155 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket



Applications

- General Purpose
- Laboratory Use
- Low PIM Applications

Description

Pasternack's PE3C7884-50CM 4.3-10 male right angle to SMA male 50 cm cable using SPP-250-LLPL 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 SMA cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL coax. The PE3C7884-50CM 4.3-10 male to SMA male cable assembly operates to 5.8 GHz. Our low PIM design also offers excellent passive intermodulation performance with PIM levels better than -155 dBc. The right angle 4.3-10 interface on the SPP-250-LLPL cable allows for easier connections in tight spaces.

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		76		%
RF Shielding	100			dB
Passive Intermodulation IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz			-155	dBc
Capacitance		27 [88.58]		pF/ft [pF/m]
Inductance		0.067 [0.22]		uH/ft [uH/m]
DC Resistance Inner Conductor		3 [9.84]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			250	Vrms

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Operating Voltage (DC)			2,500	Vdc

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz

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 0.04xSQRT(FGHz)dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Length	19.685 in [500 mm]
Width/Diameter	0.5 in [12.7 mm]
Weight	0.291 lbs [132 g]

Cable

Cable Type	SPP-250-LLPL
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PTFE
Number of Shields	1
Outer Conductor 1 Material and Plating	Copper
Jacket Material	FEP, Blue
Jacket Diameter	0.28 in [7.11 mm]
One Time Minimum Bend Radius	1.25 in [31.75 mm]
Bending Moment	0.8 lbs-ft [1.08 N-m]

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Connectors

Description	Connector 1	Connector 2
Type	4.3-10 Male Right Angle	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	200 µin	
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 µin	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Specification	200 µin	

Environmental Specifications

Operating Range Temperature	-40 to +85 deg C
Shock	MIL-STD-202G, Method 213, Condition I
Vibration	MIL-STD-202G, Method 204, Condition B
Thermal Shock	MIL-STD-202G, Method 107, Condition B

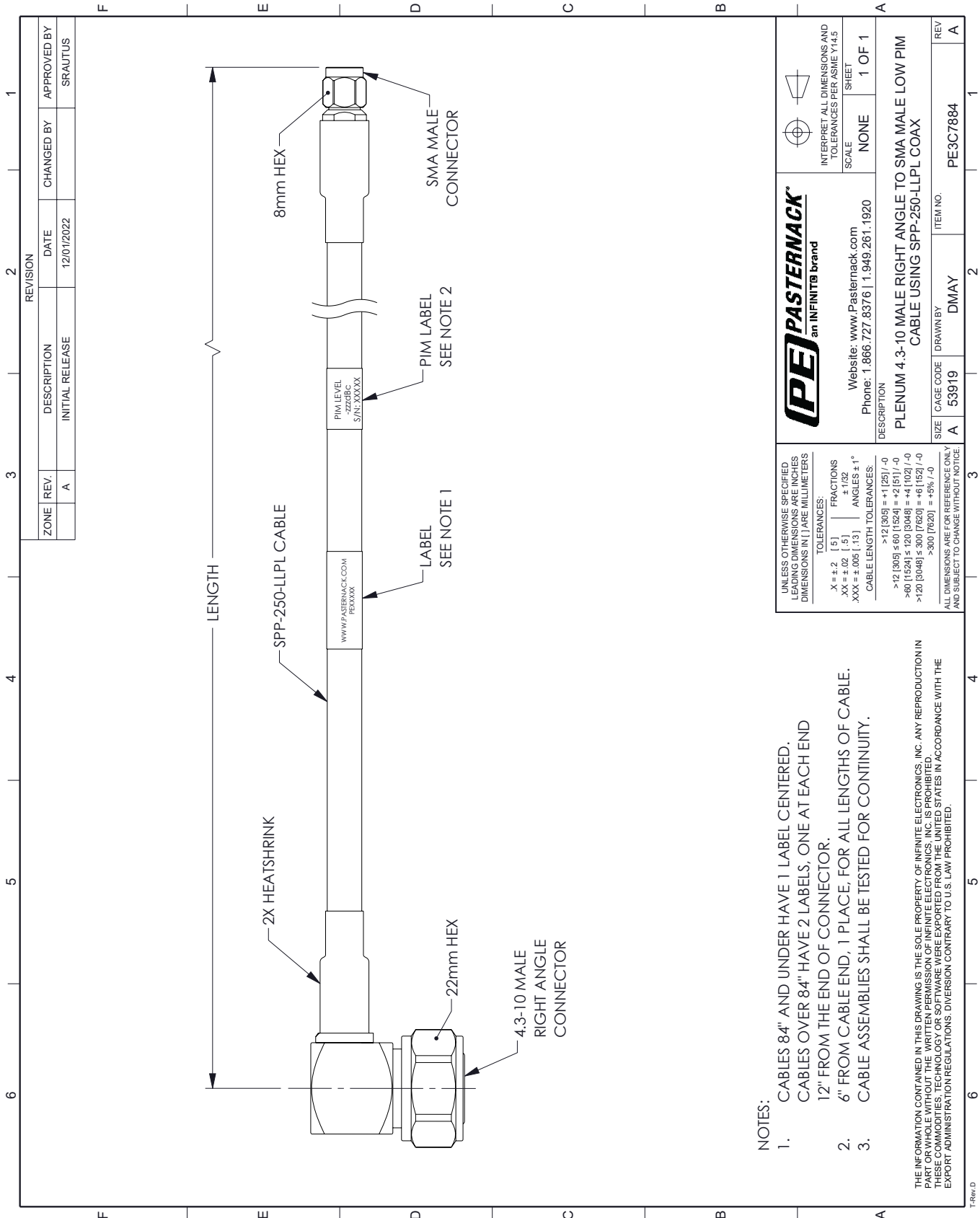
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

PE3C7884-50CM CAD Drawing

Plenum 4.3-10 Male Right Angle to SMA Male Low PIM Cable 50 CM Length Using SPP-250-LLPL Coax



NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12" FROM THE END OF CONNECTOR.
2. 6" FROM CABLE END, 1 PLACE. FOR ALL LENGTHS OF CABLE.
3. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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		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: PLENUM 4.3-10 MALE RIGHT ANGLE TO SMA MALE LOW PIM CABLE USING SPP-250-LLPL COAX	
UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS TOLERANCES: X = ±.2 [.5] FRACTIONS XX = ±.02 [.5] ANGLES ± 1° XXX = ±.005 [.13] CABLE LENGTH TOLERANCES: >12 [305] = ±.1 [25] / 0 >60 [1524] = ±.00 [1524] = ±.1 [25] / 0 >120 [3048] = ±.00 [1524] = ±.1 [25] / 0 >300 [7620] = ±.00 [1524] = ±.1 [25] / 0 ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	CAGE CODE: 53919 DRAWN BY: DMAY ITEM NO.: PE3C7884	REV: A	