

Plenum SMA Male to SMA Male Low Loss Cable Using LMR®-195-LLPX Coax with Times Microwave Components



PE3C5065

Configuration

- Connector 1: SMA Male
- Connector 2: SMA Male
- Cable Type: LMR®-195-LLPX
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PVC (FR) Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C5065 SMA male to SMA male cable using LMR®-195-LLPX 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 SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR®-195-LLPX coax. The PE3C5065 SMA male to SMA male cable assembly operates to 8 GHz. The double shielding of this Pasternack cable assembly provides excellent shielding effectiveness of better than 90 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		8	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.6 [24.93]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency		500	1000	2000	4000	
PE3C5065	Custom Lengths Available	Insertion Loss (Typ.)	0.081	0.114	0.162	0.228	0.357	dB/ft	
			0.27	0.38	0.54	0.75	1.18	dB/m	
PE3C5065-12	12 In	Insertion Loss (Typ.)	0.59	0.62	0.67	0.73	0.86	dB	0.065
PE3C5065-24	24 In	Insertion Loss (Typ.)	0.67	0.73	0.83	0.96	1.22	dB	0.092
PE3C5065-36	36 In	Insertion Loss (Typ.)	0.75	0.85	0.99	1.19	1.58	dB	0.119
PE3C5065-48	48 In	Insertion Loss (Typ.)	0.83	0.96	1.15	1.42	1.93	dB	0.146
PE3C5065-60	60 In	Insertion Loss (Typ.)	0.91	1.07	1.31	1.64	2.29	dB	0.173

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: 0.25 dB
 Loss due to Connector 2: 0.25 dB
 Base Weight: 0.065 pounds
 Additional Weight per Inch: 0.00225 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter .5 in [12.7 mm]
 Weight 0.065 lbs [29.48 g]

Cable

Cable Type LMR®-195-LLPX
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper
 Dielectric Type PTFE (LD)
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Tinned Copper Braid
 Jacket Material PVC (FR), Orange
 Jacket Diameter 0.195 in [4.95 mm]
 One Time Minimum Bend Radius 0.5 in [12.7 mm]
 Repeated Minimum Bend Radius 2 in [50.8 mm]
 Bending Moment 0.1 lbs-ft [0.14 N-m]
 Flat Plate Crush 10 lbs/in [0.18 Kg/mm]
 Tensile Strength 40 lbs [18.14 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	ASTM B488	ASTM B488
Dielectric Type	Teflon	Teflon
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Hex Size	5/16 Inch	5/16 Inch

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3C5065

Typical Performance Data

How to Order

Part Number Configuration:

PE3C5065

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C5065-12 = 12 inches long cable
PE3C5065-100cm = 100 cm long cable

Plenum SMA Male to SMA Male Low Loss Cable Using LMR®-195-LLPX Coax with Times Microwave Components 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: [Plenum SMA Male to SMA Male Low Loss Cable Using LMR®-195-LLPX Coax with Times Microwave Components PE3C5065](https://www.pasternack.com/plenum-sma-male-to-sma-male-low-loss-cable-using-lmr-195-llpx-pe3c5065-p.aspx)

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PE3C5065 CAD Drawing

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