

SMA Female to SMA Male Low Loss Cable Using LMR-LW195 Coax



RF Cable Assemblies Technical Data Sheet

PE3W12566

Configuration

Connector 1: SMA FemaleConnector 2: SMA MaleCable Type: LMR-LW195

Features

- · Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- · Double Shielded
- PE Jacket

Applications

· General Purpose

Laboratory Use

Description

Pasternack's PE3W12566 SMA female to SMA male cable using LMR-LW195 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 female to male gender configuration with 50 ohm flexible LMR-LW195 coax. The PE3W12566 SMA female 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female to SMA Male Low Loss Cable Using LMR-LW195 Coax PE3W12566

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



SMA Female to SMA Male Low Loss Cable Using LMR-LW195 Coax



RF Cable Assemblies Technical Data Sheet

PE3W12566

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR		7,650	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		18.1 [59.38]		Ω/1000ft [Ω/Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	4	8	GHz
Insertion Loss (Typ.)	0.081 0.27	0.116 0.38	0.169 0.55	0.239 0.78	0.357 1.17	dB/ft 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 0.039 lbs [17.69 g]

Cable

Cable Type
Impedance
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Solid
Inner Conductor Material and Plating
Dielectric Type
Foam PE
Number of Shields
Shield Layer 1
Aluminum Tap

Shield Layer 1 Aluminum Tape
Shield Layer 2 Aluminum
Jacket Material PE, Black

Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female to SMA Male Low Loss Cable Using LMR-LW195 Coax PE3W12566

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



SMA Female to SMA Male Low Loss Cable Using LMR-LW195 Coax



RF Cable Assemblies Technical Data Sheet

PE3W12566

Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 2 in [50.8 mm] 0.2 lbs-ft [0.27 N-m] 15 lbs/in [0.27 Kg/mm] 40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Female	SMA Male	
Specification		MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold	
Contact Plating Specification	50μ in. minimum	50 μin minimum	
Dielectric Type	PTFE	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100μ in. minimum	100 μin minimum	
Coupling Nut Material and Plating		Brass, Nickel	
Coupling Nut Plating Specification		100 μin minimum	
Hex Size		5/16 inch	
Torque		3 in-lbs [0.34 Nm]	

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female to SMA Male Low Loss Cable Using LMR-LW195 Coax PE3W12566



SMA Female to SMA Male Low Loss Cable Using LMR-LW195 Coax



RF Cable Assemblies Technical Data Sheet

PE3W12566

How to Order



Example: PE3W12566-12 = 12 inches long cable

PE3W12566-100cm = 100 cm long cable

SMA Female to SMA Male Low Loss Cable Using LMR-LW195 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: SMA Female to SMA Male Low Loss Cable Using LMR-LW195 Coax PE3W12566

URL: https://www.pasternack.com/sma-female-to-sma-male-low-loss-cable-using-lmr-lw195-pe3w12566-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.

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

