



RF Cable Assemblies Technical Data Sheet

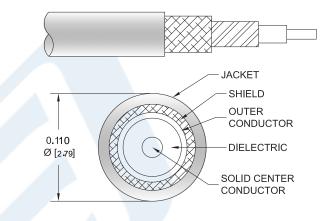
PE3W08203LF

Configuration

Connector 1: MCX Plug
Connector 2: SMA Female
Cable Type: LMR-100A

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3W08203LF MCX plug to SMA female cable using LMR-100 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 MCX to SMA cable assembly has a plug to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3W08203LF MCX plug to SMA female cable assembly operates to 3 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: MCX Plug to SMA Female Cable Using LMR-100 Coax, LF Solder PE3W08203LF

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





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		7,65	1.45:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

F1	F2	F3	F4	F5	Units
0.1	0.25	0.5	1	3	GHz
0.06	0.07	0.1	0.15	0.35	dB/ft
0.2	0.23	0.33	0.49	1.15	dB/m
	0.06	0.1 0.25 0.06 0.07	0.1 0.25 0.5 0.06 0.07 0.1	0.1 0.25 0.5 1 0.06 0.07 0.1 0.15	0.1 0.25 0.5 1 3 0.06 0.07 0.1 0.15 0.35

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

Diameter 0.312 in [7.92 mm]

Cable

Cable TypeLMR-100AImpedance50 OhmsInner Conductor TypeSolid

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type PE Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material PVC, Black
Jacket Diameter 0.11 in [2.79 mm]

One Time Minimum Bend Radius 0.25 in [6.35 mm]

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Repeated Minimum Bend Radius

1 in [25.4 mm]

Bending Moment

0.1 lbs-ft [0.14 N-m]

Flat Plate Crush

10 lbs/in [0.18 Kg/mm]

Tensile Strength

15 lbs [6.8 Kg]

Connectors

Connector 1	Connector 2	
MCX Plug	SMA Female	
CECC 22220	MIL-STD-348	
50 Ohms	50 Ohms	
Brass, Gold	Gold	
30 µin minimum	MIL-G-45204	
PTFE	PTFE	
Brass, Nickel	Brass, Nickel	
100 µin minimum	QQ-N-290	
	MCX Plug CECC 22220 50 Ohms Brass, Gold 30 µin minimum PTFE Brass, Nickel	

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



Example: PE3W08203LF-12 = 12 inches long cable PE3W08203LF-100cm = 100 cm long cable

MCX Plug to SMA Female Cable Using LMR-100 Coax, LF Solder 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/mcx-plug-sma-female-lmr100-cable-assembly-pe3w08203lf-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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PE3W08203LF CAD DrawingMCX Plug to SMA Female Cable Using LMR-100 Coax , LF Solder

