



RF Cable Assemblies Technical Data Sheet

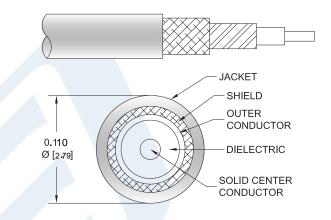
PE3W04152

Configuration

Connector 1: SMC PlugConnector 2: MCX PlugCable 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 PE3W04152 SMC plug to MCX plug low loss 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 SMC to MCX cable assembly has a plug to plug gender configuration with 50 ohm flexible LMR-100A coax. The PE3W04152 SMC plug to MCX plug 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: SMC Plug to MCX Plug Low Loss Cable Using LMR-100 Coax PE3W04152

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





RF Cable Assemblies Technical Data Sheet

PE3W04152

Electrical Specifications

	3 1.5:1	GHz
	1 5:1	
	1.5.1	
66		%
		dB
1.54 [5.05]		ns/ft [ns/m]
30.8 [101.05]		pF/ft [pF/m]
0.077 [0.25]		uH/ft [uH/m]
81 [265.75]		Ω/1000ft [Ω/Km]
9.5 [31.17]		Ω/1000ft [Ω/Km]
	2,000	Vrms
	1.54 [5.05] 30.8 [101.05] 0.077 [0.25] 81 [265.75]	1.54 [5.05] 30.8 [101.05] 0.077 [0.25] 81 [265.75] 9.5 [31.17]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.07	0.12	0.17	0.24	0.44	dB/ft
	0.23	0.39	0.56	0.79	1.44	dB/m

Electrical Specification Notes:

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

Mechanical Specifications

Cable Assembly

Diameter 0.25 in [6.35 mm]

Cable

Cable Type LMR-100A Impedance 50 Ohms Inner Conductor Type Solid

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 MaterialPVC, BlackJacket Diameter0.11 in [2.79 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMC Plug to MCX Plug Low Loss Cable Using LMR-100 Coax PE3W04152

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





RF Cable Assemblies Technical Data Sheet

PE3W04152

One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 0.25 in [6.35 mm] 1 in [25.4 mm] 0.1 lbs-ft [0.14 N-m] 10 lbs/in [0.18 Kg/mm] 15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2		
Туре	SMC Plug	MCX Plug		
Specification	MIL-STD-348A	CECC 22220		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold		
Contact Plating Specification	30 μin minimum	30 μin minimum		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Nickel	Brass, Nickel		
Body Plating Specification	100 μin minimum	100 µin minimum		
Coupling Nut Material and Plating	Brass, Nickel			
Coupling Nut Plating Specification	100 µin minimum	100 μin minimum		
Hex Size	1/4 inch			

Mechanical Specification Notes:

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: SMC Plug to MCX Plug Low Loss Cable Using LMR-100 Coax PE3W04152

^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

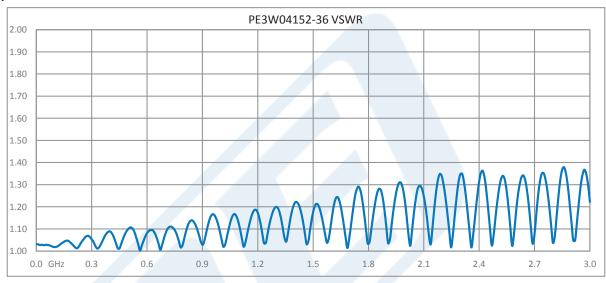


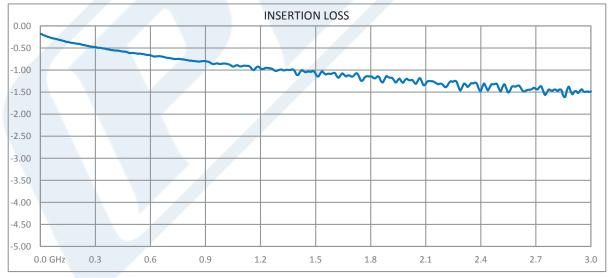


RF Cable Assemblies Technical Data Sheet

PE3W04152

Typical Performance Data





Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMC Plug to MCX Plug Low Loss Cable Using LMR-100 Coax PE3W04152





RF Cable Assemblies Technical Data Sheet

PE3W04152

How to Order



Example: PE3W04152-12 = 12 inches long cable

PE3W04152-100cm = 100 cm long cable

SMC Plug to MCX Plug Low Loss Cable Using LMR-100 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: SMC Plug to MCX Plug Low Loss Cable Using LMR-100 Coax PE3W04152

URL: https://www.pasternack.com/smc-plug-mcx-plug-lmr100-cable-assembly-pe3w04152-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

PE3W04152 CAD DrawingSMC Plug to MCX Plug Low Loss Cable Using LMR-100 Coax

