



SMA Female to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

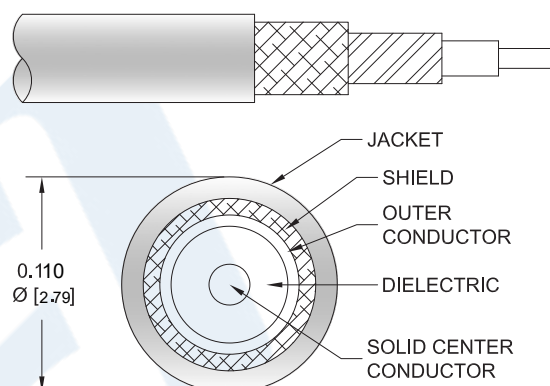
PE3W10587

Configuration

- Connector 1: SMA Female
- Connector 2: MMCX Plug Right Angle
- Cable Type: LMR-100A

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W10587 SMA female to MMCX plug right angle 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 SMA to MMCX cable assembly has a female to plug gender configuration with 50 ohm flexible LMR-100A coax. The PE3W10587 SMA female to MMCX plug cable assembly operates to 5.8 GHz. The right angle MMCX interface on the LMR-100A cable allows for easier connections in tight spaces. 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 MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax PE3W10587](#)



SMA Female to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10587

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
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

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.11	0.16	0.24	0.39	0.64	dB/ft
	0.36	0.52	0.79	1.28	2.1	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 dB for the right angle connector and 0.1 dB for the straight connector.

Mechanical Specifications

Cable Assembly

Weight 0.027 lbs [12.25 g]

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

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 MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax PE3W10587](#)



SMA Female to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10587

Jacket Material	PVC, Black
Jacket Diameter	0.11 in [2.79 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
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

Description	Connector 1	Connector 2
Type	SMA Female	MMCX Plug Right Angle
Specification	MIL-STD-348A	BS EN 122340
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	50µ in. minimum	30 µin minimum
Dielectric Type	Teflon	PTFE
Outer Conductor Material and Plating	Brass, Gold	
Outer Conductor Plating Specification	3µ in. minimum	
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	3µ in. minimum	3 µin minimum

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 MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax PE3W10587](#)



SMA Female to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

PE3W10587

How to Order

Part Number Configuration:

PE3W10587

- **xx**

uu

Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3W10587-12 = 12 inches long cable
PE3W10587-100cm = 100 cm long cable

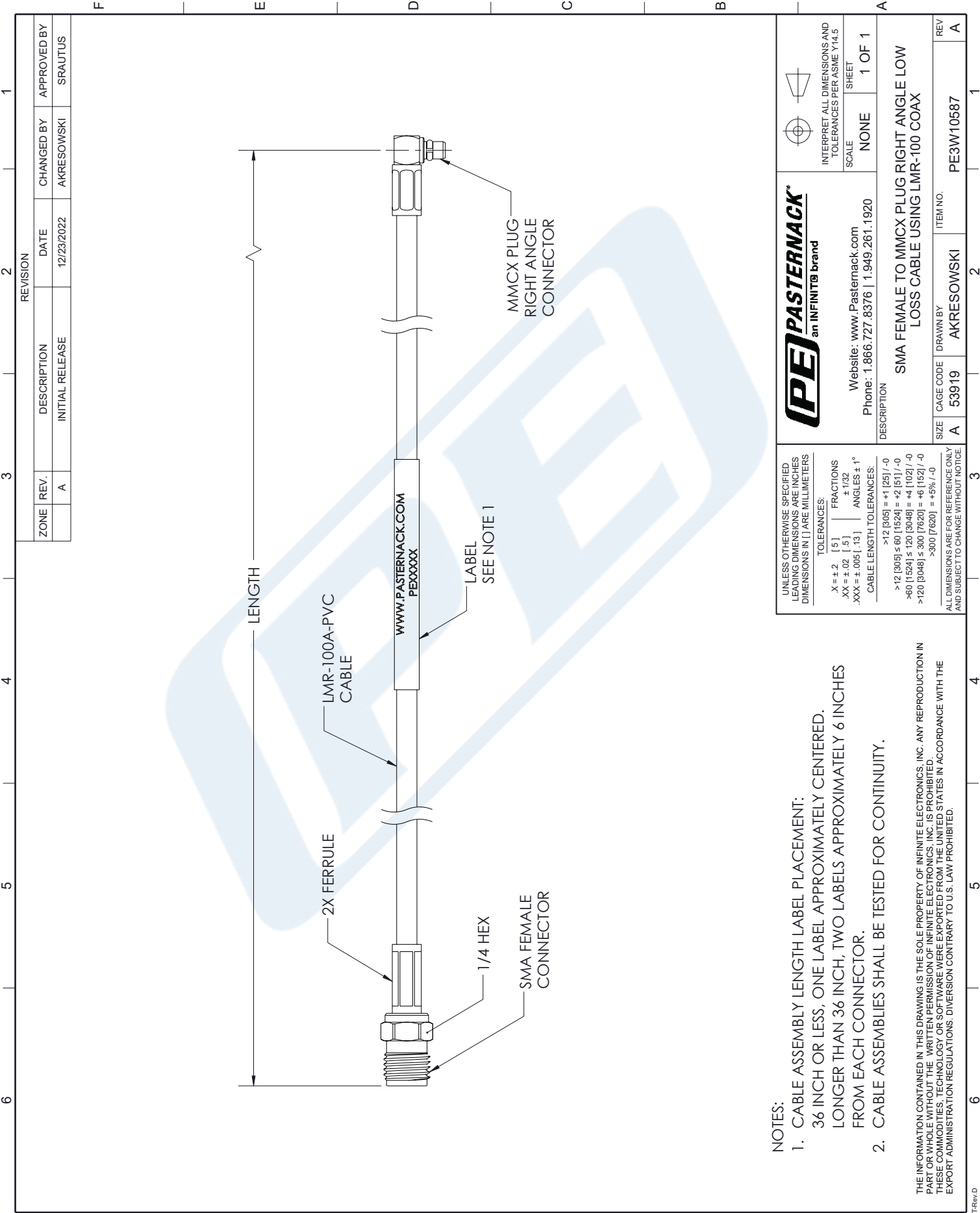
SMA Female to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax PE3W10587](https://www.pasternack.com/sma-female-to-mmcx-plug-right-angle-low-loss-cable-using-lmr-100-pe3w10587-p.aspx)

URL: <https://www.pasternack.com/sma-female-to-mmcx-plug-right-angle-low-loss-cable-using-lmr-100-pe3w10587-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.

PE3W10587 CAD Drawing
SMA Female to MMCX Plug Right Angle Low Loss Cable Using LMR-100 Coax



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		PE PASTERNAK an INFINITI [®] brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.Pasternack.com		SCALE	
X = ± .2 [.5]		Phone: 1.866.727.8376 1.949.261.1920		NONE	
.XX = ± .02 [.5]		DESCRIPTION		SHEET	
.XXX = ± .005 [.13]		SMA FEMALE TO MMCX PLUG RIGHT ANGLE LOW LOSS CABLE USING LMR-100 COAX		1 OF 1	
ANGLES ± 1°		SIZE		REV	
CABLE LENGTH TOLERANCES:		A		A	
>12 [305] = +1 [25] / -0		CAGE CODE		ITEM NO.	
>12 [305] ≤ 60 [1524] = +2 [51] / -0		53919		AKRESOWSKI	
>60 [1524] ≤ 120 [3048] = +4 [102] / -0		DRAWN BY		PE3W10587	
>120 [3048] ≤ 300 [7620] = +6 [152] / -0		AKRESOWSKI		1	
>300 [7620] = +5% / -0		ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE			

NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT:
36 INCH OR LESS, ONE LABEL APPROXIMATELY CENTERED.
LONGER THAN 36 INCH, TWO LABELS APPROXIMATELY 6 INCHES
FROM EACH CONNECTOR.

2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN
PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.
THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE
EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.