



Reverse Polarity SMA Plug Right Angle to Reverse Polarity
SMA Plug Right Angle Low Loss Cable Using LMR-100 Coax

RF Cable Assemblies Technical Data Sheet

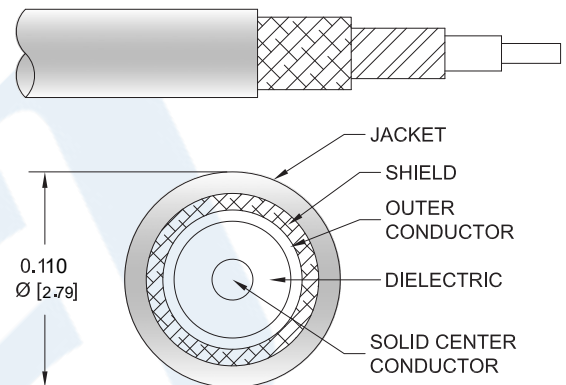
PE3W03428

Configuration

- Connector 1: SMA Plug Reverse Polarity Right Angle
- Connector 2: SMA Plug Reverse Polarity Right Angle
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

Features

- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W03428 reverse polarity SMA plug right angle to reverse polarity SMA 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 reverse polarity SMA to reverse polarity SMA cable assembly has a plug to plug gender configuration with 50 ohm flexible LMR-100A coax. The right angle SMA interfaces on the LMR-100A cable allow 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: [Reverse Polarity SMA Plug Right Angle to Reverse Polarity SMA Plug Right Angle Low Loss Cable Using LMR-100 Coax PE3W03428](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
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

Mechanical Specifications

Cable Assembly

Weight 0.031 lbs [14.06 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
 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]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Plug Reverse Polarity Right Angle	SMA Plug Reverse Polarity Right Angle
Specification	MIL-STD-348	MIL-STD-348
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Gold	Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	QQ-N-290
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	QQ-N-290	QQ-N-290
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs [0.34 Nm]	3 in-lbs [0.34 Nm]

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

Plotted and Other Data

Notes:

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RF Cable Assemblies Technical Data Sheet

PE3W03428

How to Order

Part Number Configuration:

PE3W03428

- **xx**

uu

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

Example: PE3W03428-12 = 12 inches long cable
PE3W03428-100cm = 100 cm long cable

Reverse Polarity SMA Plug Right Angle to Reverse Polarity SMA 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.

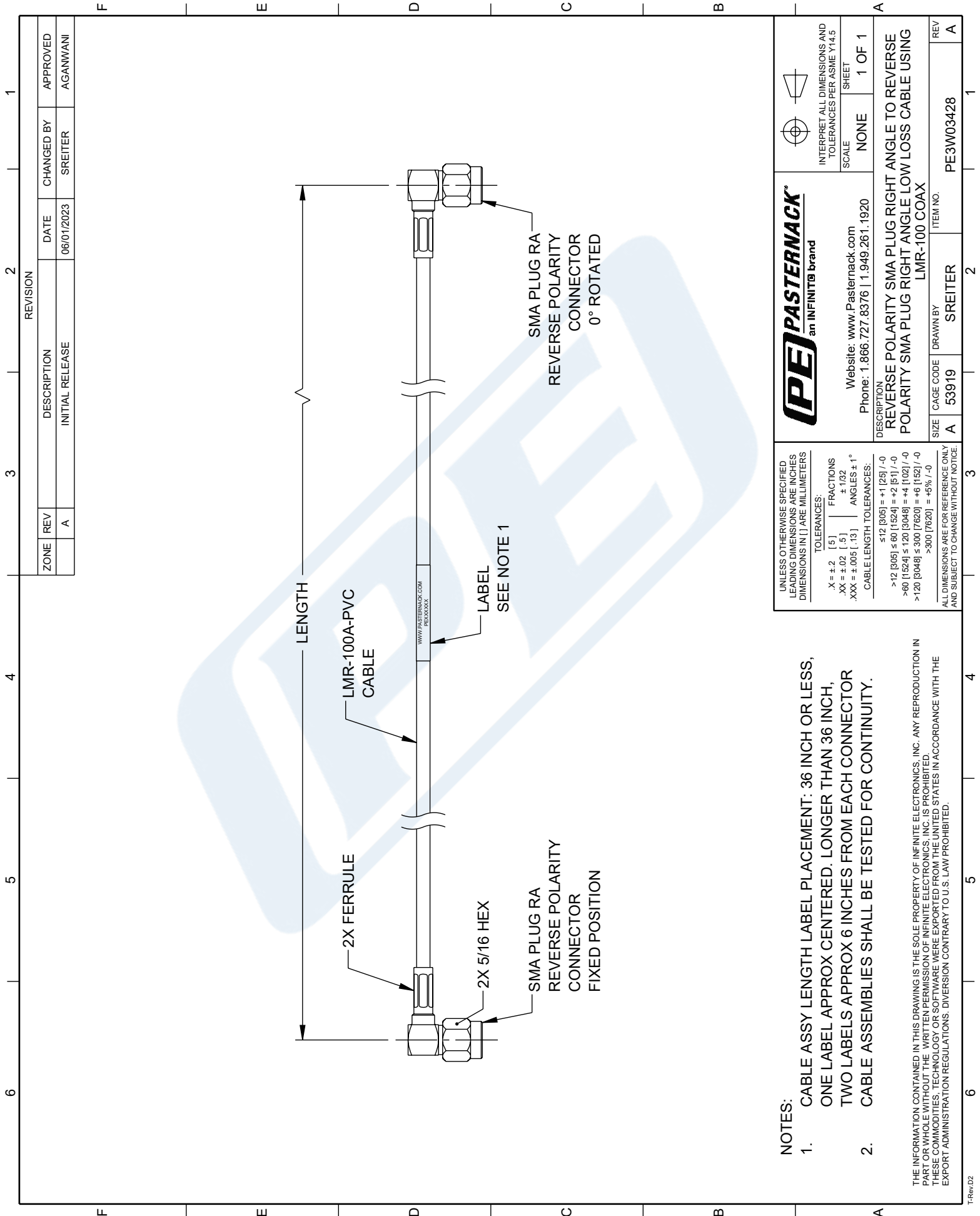
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity SMA Plug Right Angle to Reverse Polarity SMA Plug Right Angle Low Loss Cable Using LMR-100 Coax PE3W03428](https://www.pasternack.com/reverse-polarity-sma-plug-right-angle-to-reverse-polarity-sma-plug-right-angle-low-loss-cable-using-lmr-100-pe3w03428)

URL: <https://www.pasternack.com/reverse-polarity-sma-plug-right-angle-to-reverse-polarity-sma-plug-low-loss-cable-using-lmr-100-pe3w03428-p.aspx>

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PE3W03428 CAD Drawing

Reverse Polarity SMA Plug Right Angle to Reverse Polarity SMA
Plug Right Angle Low Loss Cable Using LMR-100 Coax



NOTES:

1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCH OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCH, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
X = ±.2 [.5] FRACTIONS
.XX = ±.02 [.5] ±.1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE.

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE NONE SHEET 1 OF 1

DESCRIPTION
REVERSE POLARITY SMA PLUG RIGHT ANGLE TO REVERSE
POLARITY SMA PLUG RIGHT ANGLE LOW LOSS CABLE USING
LMR-100 COAX

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	SREITER	PE3W03428	A