

Reverse Polarity SMA Jack to Reverse Polarity SMA Plug Low Loss Cable Using LMR-240 Coax with HeatShrink



PE3C2427/HS

Configuration

- Connector 1: SMA Jack Reverse Polarity
- Connector 2: SMA Plug Reverse Polarity
- Cable Type: LMR-240
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C2427/HS reverse polarity SMA jack to reverse polarity SMA plug cable using LMR-240 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 jack to plug gender configuration with 50 ohm flexible LMR-240 coax. The PE3C2427/HS reverse polarity SMA jack to reverse polarity SMA plug 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3C2427/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.039	0.056	0.076	0.129	0.204	dB/ft	
			0.13	0.19	0.25	0.43	0.67	dB/m	
PE3C2427/HS-12	12 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.33	0.41	dB	0.059
PE3C2427/HS-24	24 inch	Insertion Loss (Typ.)	0.28	0.32	0.36	0.46	0.61	dB	0.092
PE3C2427/HS-36	36 inch	Insertion Loss (Typ.)	0.32	0.37	0.43	0.59	0.82	dB	0.125
PE3C2427/HS-48	48 inch	Insertion Loss (Typ.)	0.36	0.43	0.51	0.72	1.02	dB	0.158
PE3C2427/HS-60	60 inch	Insertion Loss (Typ.)	0.4	0.48	0.58	0.85	1.22	dB	0.191

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.1 dB
Loss due to Connector 2:	0.1 dB
Base Weight:	0.059 pounds
Additional Weight per Inch:	0.00275 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.059 lbs [26.76 g]

Cable

Cable Type	LMR-240
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Jack Reverse Polarity	SMA Plug Reverse Polarity
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Material and Plating		Brass, Gold
Hex Size		5/16 inch
Torque		3 in-lbs 0.34 Nm

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

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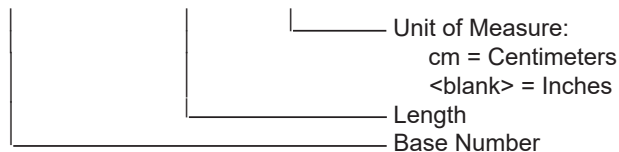
PE3C2427/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3C2427/HS - xx uu



Example: PE3C2427/HS-12 = 12 inches long cable
PE3C2427/HS-100cm = 100 cm long cable

Reverse Polarity SMA Jack to Reverse Polarity SMA Plug Low Loss Cable Using LMR-240 Coax with HeatShrink 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.

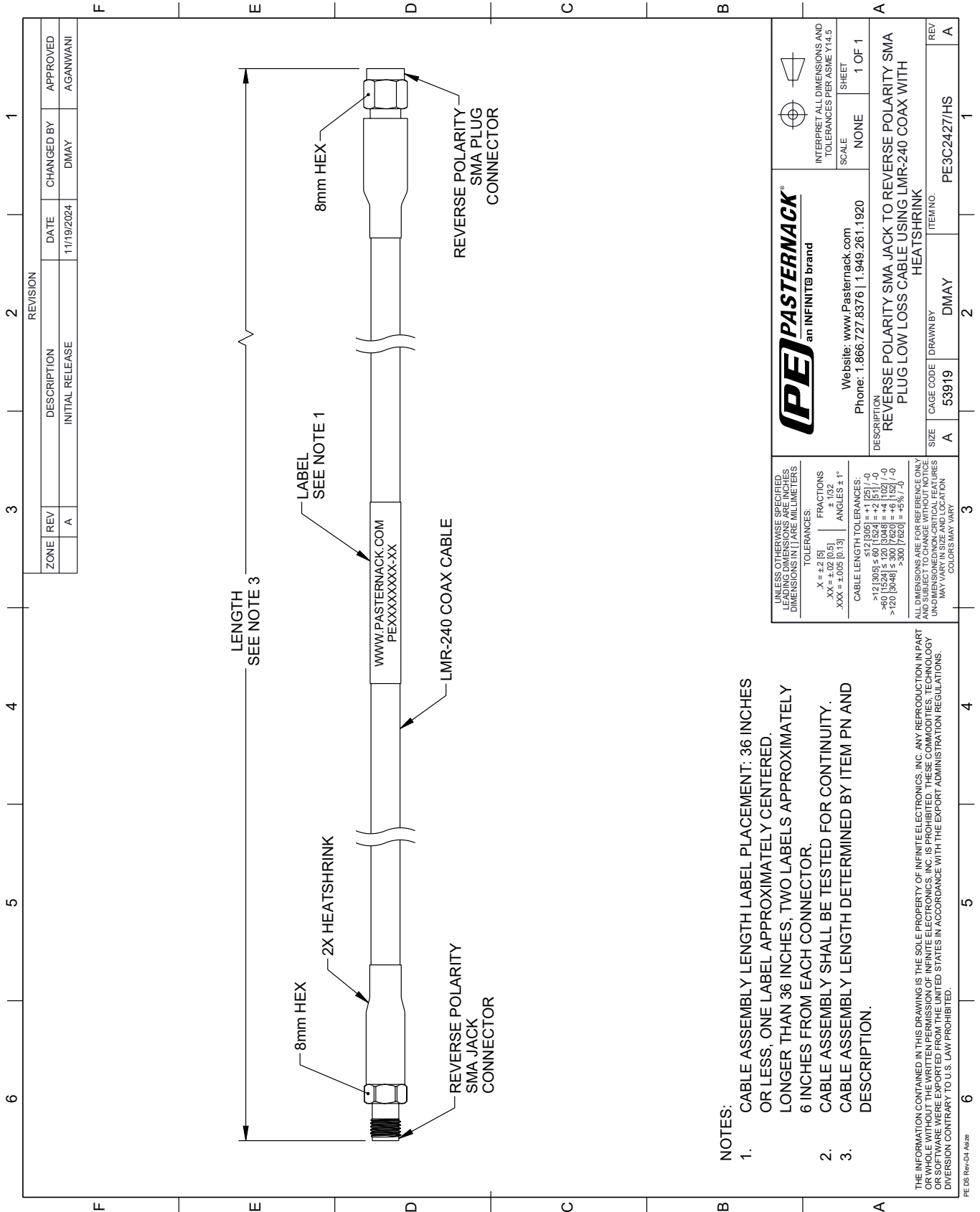
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity SMA Jack to Reverse Polarity SMA Plug Low Loss Cable Using LMR-240 Coax with HeatShrink PE3C2427/HS](#)

URL: <https://www.pasternack.com/reverse-polarity-sma-jack-to-reverse-polarity-sma-plug-low-loss-cable-using-lmr-240-with-heatshrink-pe3c2427-hs-p.aspx>

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PE3C2427/HS CAD Drawing

Reverse Polarity SMA Jack to Reverse Polarity SMA Plug Low Loss Cable Using LMR-240 Coax with HeatShrink



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV			
	A	11/19/2024	DMAY	AGANWANI
DESCRIPTION				
INITIAL RELEASE				

		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920			
DESCRIPTION REVERSE POLARITY SMA JACK TO REVERSE POLARITY SMA PLUG LOW LOSS CABLE USING LMR-240 COAX WITH HEATSHRINK			
SIZE	A	CAGE CODE	DMAY
ITEM NO.	53919	DRAWN BY	DMAY
		ITEM NO.	PE3C2427/HS
		REV	A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN MILLIMETERS.

TOLERANCES:
 .X = ±.2 (5) FRACTIONS ±.132
 .XX = ±.02 (0.5) ANGLES ± 1°
 .XXX = ±.005 (0.13)

CABLE LENGTH TOLERANCES:
 >12 (305) ≤ 60 (1524) = ±.1 (2.5) / -0
 >60 (1524) ≤ 120 (3048) = ±.4 (10) / -0
 >120 (3048) ≤ 300 (7620) = ±.6 (15) / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED/UNCLEAR FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

- NOTES:**
- CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
 - CABLE ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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