

Reverse Polarity TNC Plug to Reverse Polarity TNC Plug Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink



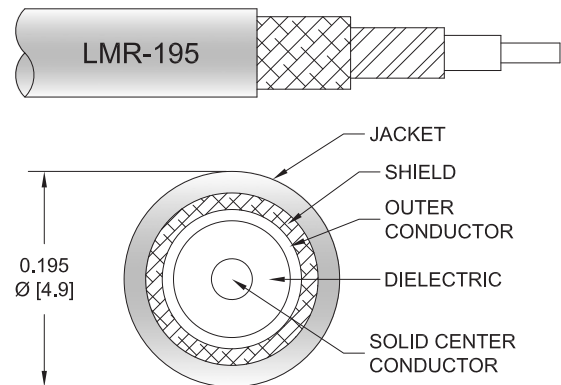
PE3C0447/HS

Configuration

- Connector 1: TNC Plug Reverse Polarity
- Connector 2: TNC Plug Reverse Polarity Right Angle
- Cable Type: LMR-195
- Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C0447/HS reverse polarity TNC plug to reverse polarity TNC plug right angle cable using LMR-195 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 TNC to reverse polarity TNC cable assembly has a plug to plug gender configuration with 50 ohm flexible LMR-195 coax. The PE3C0447/HS reverse polarity TNC plug to reverse polarity TNC plug cable assembly operates to 3 GHz. The right angle TNC interface on the LMR-195 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.6 [24.93]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			500	Vrms

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3C0447/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.034	0.057	0.082	0.117	0.207	dB/ft	
			0.12	0.19	0.27	0.39	0.68	dB/m	
PE3C0447/HS-12	12 In	Insertion Loss (Typ.)	0.34	0.36	0.39	0.42	0.51	dB	0.116
PE3C0447/HS-24	24 In	Insertion Loss (Typ.)	0.37	0.42	0.47	0.54	0.72	dB	0.139
PE3C0447/HS-36	36 In	Insertion Loss (Typ.)	0.41	0.48	0.55	0.66	0.93	dB	0.161
PE3C0447/HS-48	48 In	Insertion Loss (Typ.)	0.44	0.53	0.63	0.77	1.13	dB	0.183
PE3C0447/HS-60	60 In	Insertion Loss (Typ.)	0.47	0.59	0.71	0.89	1.34	dB	0.205

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:	0.2 dB
Base Weight:	0.116 pounds
Additional Weight per Inch:	0.00184 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.116 lbs [52.62 g]

Cable

Cable Type	LMR-195
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	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	TNC Plug Reverse Polarity	TNC Plug Reverse Polarity Right Angle
Specification		MIL-C-39012
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type		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

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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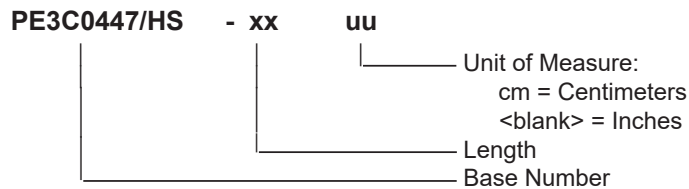


PE3C0447/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3C0447/HS-12 = 12 inches long cable
PE3C0447/HS-100cm = 100 cm long cable

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Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Reverse Polarity TNC Plug to Reverse Polarity TNC Plug Right Angle Low Loss Cable Using LMR-195 Coax with HeatShrink PE3C0447/HS](https://www.pasternack.com/reverse-polarity-tnc-plug-to-reverse-polarity-tnc-plug-right-angle-low-loss-cable-using-lmr-195-coax-with-heatshrink-pe3c0447/hs)

URL: <https://www.pasternack.com/reverse-polarity-tnc-plug-to-reverse-polarity-tnc-plug-low-loss-cable-using-lmr-195-with-heatshrink-pe3c0447-hs-p.aspx>

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PE3C0447/HS CAD Drawing

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