



Reverse Polarity TNC Jack Bulkhead to Reverse Polarity TNC Plug Low Loss Cable Using LMR-195 Coax

TECHNICAL DATA SHEET

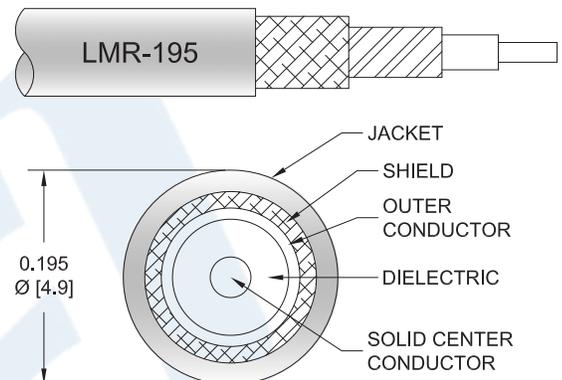
PE3C0477

Configuration

- Connector 1: TNC Jack Reverse Polarity Bulkhead
- Connector 2: TNC Plug Reverse Polarity
- Cable Type: LMR-195
- Coax Cable Group: 3
- 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 PE3C0477 reverse polarity TNC jack bulkhead to reverse polarity TNC plug 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 jack to plug gender configuration with 50 ohm flexible LMR-195 coax. The PE3C0477 reverse polarity TNC jack to reverse polarity TNC plug cable assembly operates to 3 GHz. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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 TNC Jack Bulkhead to Reverse Polarity TNC Plug Low Loss Cable Using LMR-195 Coax PE3C0477](#)



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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]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω /1000ft [Ω /Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3C0477	Custom Lengths Available	Insertion Loss (Typ.)	0.03	0.06	0.08	0.12	0.21	dB/ft	
			0.12	0.19	0.27	0.39	0.68	dB/m	
PE3C0477-12	12 inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.32	0.41	dB	0.102
PE3C0477-24	24 inch	Insertion Loss (Typ.)	0.27	0.32	0.37	0.44	0.62	dB	0.125
PE3C0477-36	36 inch	Insertion Loss (Typ.)	0.31	0.38	0.45	0.55	0.82	dB	0.147
PE3C0477-48	48 inch	Insertion Loss (Typ.)	0.34	0.43	0.53	0.67	1.03	dB	0.169
PE3C0477-60	60 inch	Insertion Loss (Typ.)	0.37	0.49	0.61	0.78	1.23	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:	0.102 pounds
Additional Weight per Inch:	0.00075 pounds

Mechanical Specifications

Cable Assembly

Weight 0.102 lbs [46.27 g]

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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]

Connectors

Description	Connector 1	Connector 2
Type	TNC Jack Reverse Polarity Bulkhead Threaded	TNC Plug Reverse Polarity Threaded
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µinches minimum
Dielectric Type	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µinches minimum

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

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

Plotted and Other Data

Notes:

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How to Order

Part Number Configuration:

PE3C0477

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Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3C0477-12 = 12 inches long cable
PE3C0477-100cm = 100 cm long cable

Reverse Polarity TNC Jack Bulkhead to Reverse Polarity TNC Plug Low Loss Cable Using LMR-195 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.

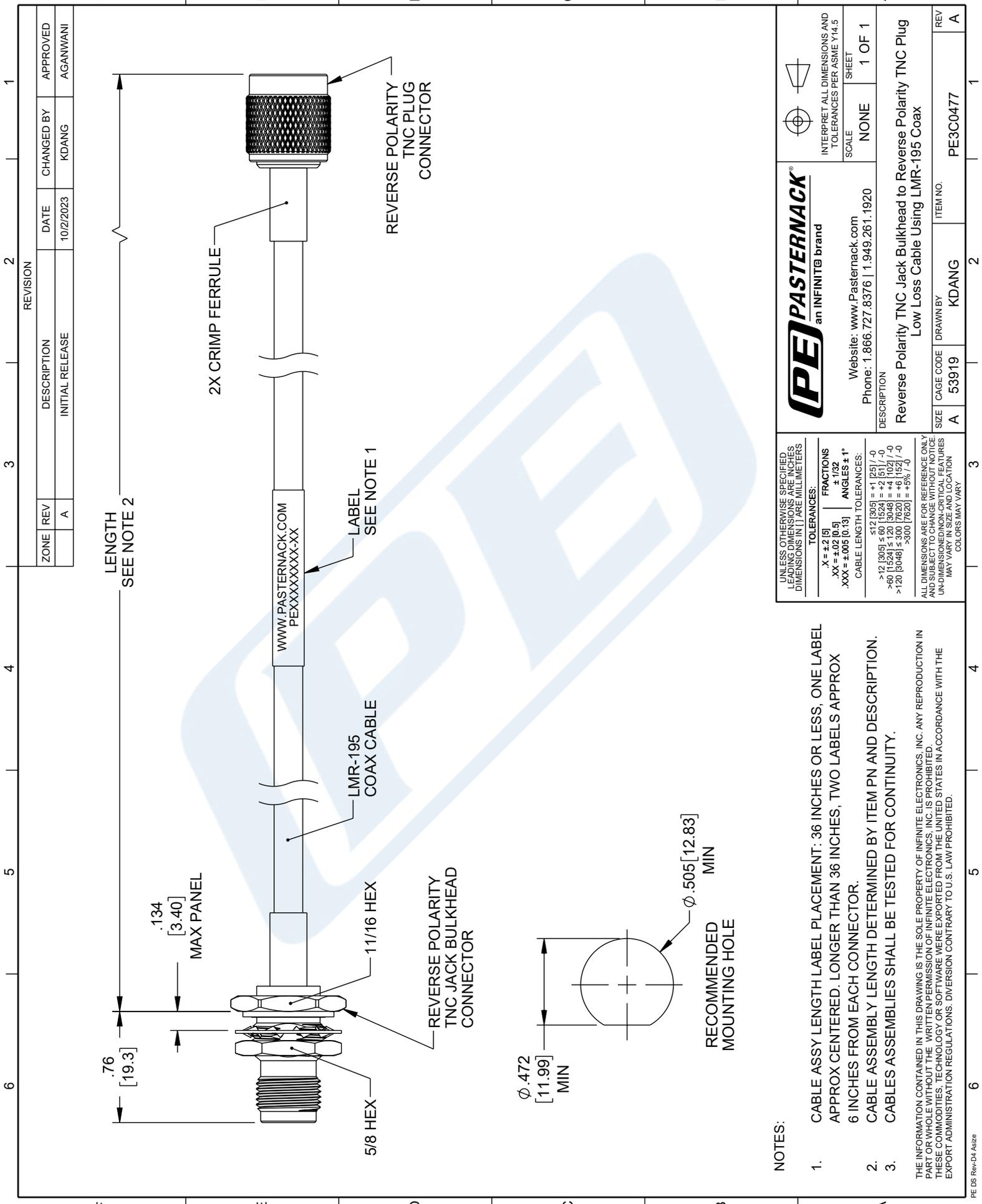
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URL: <https://www.pasternack.com/reverse-polarity-tnc-jack-bulkhead-to-reverse-polarity-tnc-plug-low-loss-cable-using-lmr-195-pe3c0477-p.aspx>

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PE3C0477 CAD Drawing

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- NOTES:
1. CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
 2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
 3. CABLES 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 ± 1/32
.XX = ± 02 [0.5]	ANGLES ± 1°
.XXX = ± .005 [0.13]	
CABLE LENGTH TOLERANCES:	
<12 [305]	± 1 [25] / -0
>12 [305] ≤ 60 [1524]	± 2 [51] / -0
>60 [1524] ≤ 120 [3048]	± 4 [102] / -0
>120 [3048]	± 8 [93] / -0
>300 [7620]	± 16 [93] / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY	

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Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		
DESCRIPTION Reverse Polarity TNC Jack Bulkhead to Reverse Polarity TNC Plug Low Loss Cable Using LMR-195 Coax		
SIZE A CAGE CODE 53919 DRAWN BY KDANG	ITEM NO. PE3C0477	REV A