



Reverse Polarity TNC Jack Bulkhead to Reverse Polarity TNC Plug Cable Using LMR-195-FR Coax, HeatShrink

RF Cable Assemblies Technical Data Sheet

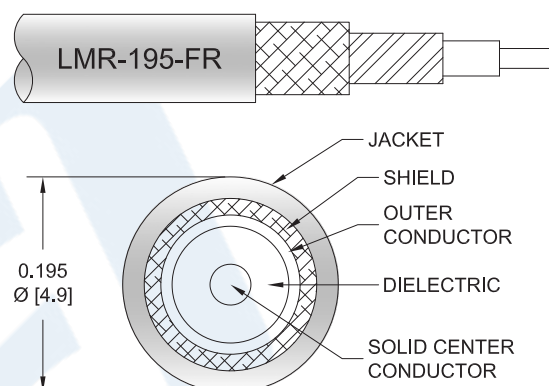
PE3W01939/HS

Configuration

- Connector 1: TNC Jack Reverse Polarity Bulkhead
- Connector 2: TNC Plug Reverse Polarity
- Cable Type: LMR-195-FR

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- FRPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W01939/HS reverse polarity TNC jack bulkhead to reverse polarity TNC plug cable using LMR-195-FR 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-FR coax. The PE3W01939/HS 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 Cable Using LMR-195-FR Coax, HeatShrink PE3W01939/HS](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.4:1	
Velocity of Propagation		76		%
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

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.034	0.057	0.081	0.116	0.206	dB/ft
	0.11	0.19	0.27	0.38	0.68	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Cable

Cable Type	LMR-195-FR
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	FRPE, 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]

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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	TNC Plug Reverse Polarity
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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PE3W01939/HS

How to Order

Part Number Configuration:

PE3W01939/HS

- **xx**

uu

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

Example: PE3W01939/HS-12 = 12 inches long cable
PE3W01939/HS-100cm = 100 cm long cable

Reverse Polarity TNC Jack Bulkhead to Reverse Polarity TNC Plug Cable Using LMR-195-FR Coax, 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 TNC Jack Bulkhead to Reverse Polarity TNC Plug Cable Using LMR-195-FR Coax, HeatShrink PE3W01939/HS](#)

URL: <https://www.pasternack.com/fire-rated-reverse-polarity-tnc-jack-bulkhead-to-reverse-polarity-tnc-plug-low-loss-cable-using-lmr-195-fr-heatshrink-pe3w01939-hs-p.aspx>

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PE3W01939/HS CAD Drawing

Reverse Polarity TNC Jack Bulkhead to Reverse Polarity TNC
Plug Cable Using LMR-195-FR Coax, HeatShrink

F E D C B A

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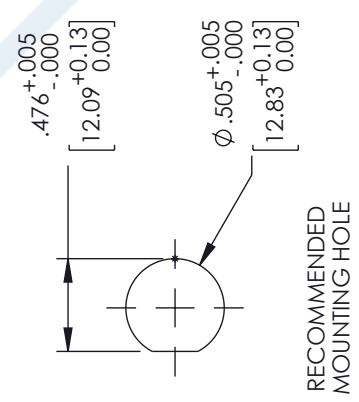
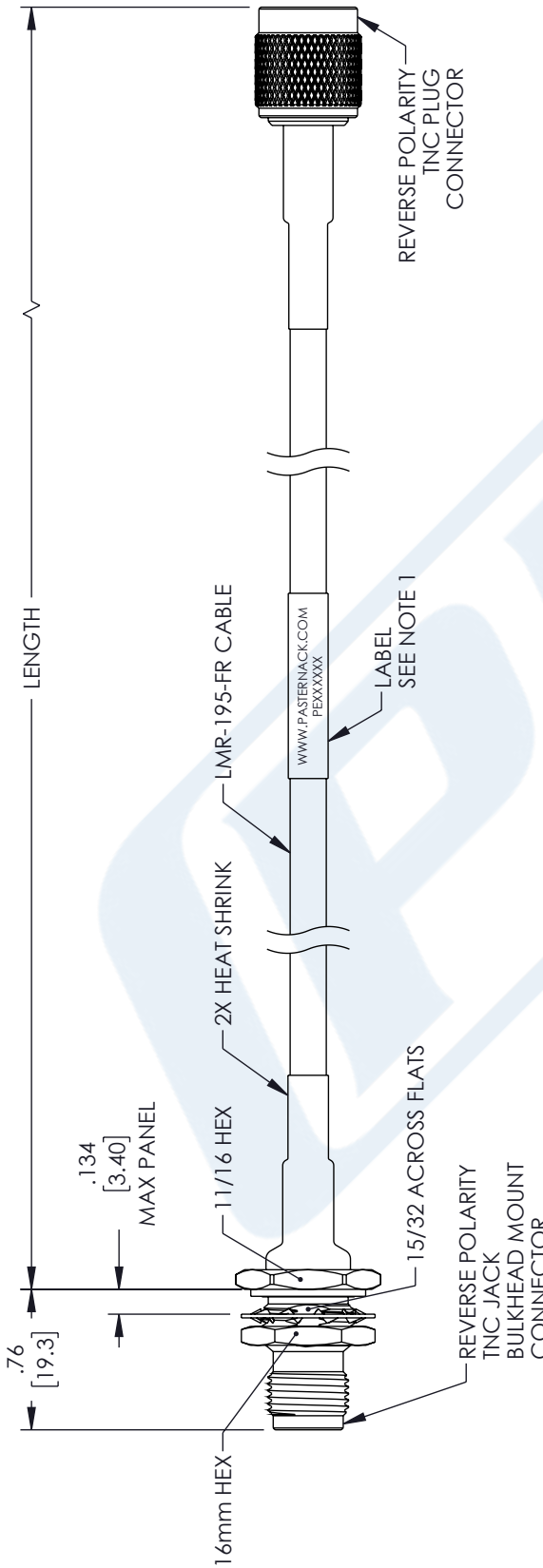
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REVISION			
ZONE	REV.	DESCRIPTION	DATE
	A	INITIAL RELEASE	01/13/2023
			CHANGED BY
			AGANWANI



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 ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION:
FIRE RATED REVERSE POLARITY TNC JACK BULKHEAD TO
REVERSE POLARITY TNC PLUG LOW LOSS CABLE USING
LMR-195-FR COAX WITH HEATSHRINK

SIZE: A
CAGE CODE: 53919
DRAWN BY: KGLEBOVA
ITEM NO.: PE3W01939/HS
REV: A