

Fire Rated TNC Male to BNC Male Low Loss Cable Using LMR-195-FR Coax



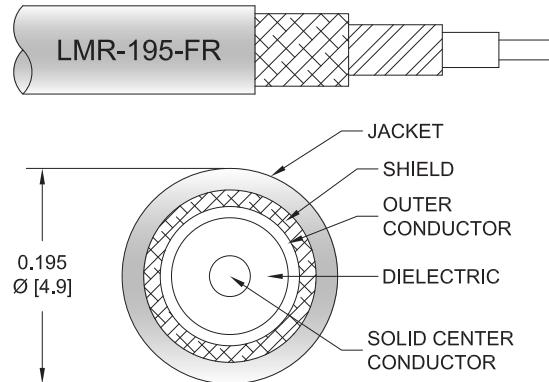
PE3W04832

Configuration

- Connector 1: TNC Male
- Connector 2: BNC Male
- Cable Type: LMR-195-FR
- Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- 76% Phase Velocity
- Double Shielded
- FRPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W04832 TNC male to BNC male 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 TNC to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195-FR coax. The PE3W04832 TNC male to BNC male cable assembly operates to 4 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		4	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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]

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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	100	250	500	1000	4000	MHz	
PE3W04832	Custom Lengths Available	Insertion Loss (Typ.)	0.034	0.057	0.081	0.116	0.236	dB/ft	
			0.12	0.19	0.27	0.39	0.78	dB/m	
PE3W04832-12	12 in	Insertion Loss (Typ.)	0.24	0.26	0.29	0.32	0.44	dB	0.088
PE3W04832-24	24 in	Insertion Loss (Typ.)	0.27	0.32	0.37	0.44	0.68	dB	0.117
PE3W04832-36	36 in	Insertion Loss (Typ.)	0.31	0.38	0.45	0.55	0.91	dB	0.145
PE3W04832-48	48 in	Insertion Loss (Typ.)	0.34	0.43	0.53	0.67	1.15	dB	0.173
PE3W04832-60	60 in	Insertion Loss (Typ.)	0.37	0.49	0.61	0.78	1.38	dB	0.201

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: 0.088 pounds
Additional Weight per Inch: 0.00234 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
Weight 0.088 lbs [39.92 g]

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]
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 Male	BNC Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 μ in minimum	30 μ in minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 μ in minimum	90 μ in minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 μ in 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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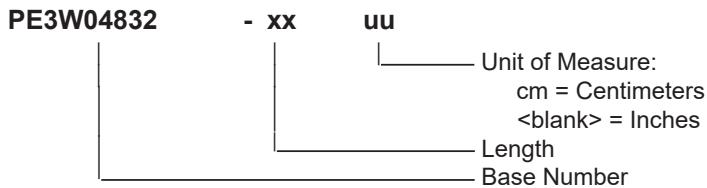


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Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W04832-12 = 12 inches long cable
PE3W04832-100cm = 100 cm long cable

Fire Rated TNC Male to BNC Male Low Loss Cable Using LMR-195-FR 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: [Fire Rated TNC Male to BNC Male Low Loss Cable Using LMR-195-FR Coax PE3W04832](#)

URL: <https://www.pasternack.com/fire-rated-tnc-male-to-bnc-male-low-loss-cable-using-lmr-195-fr-pe3w04832-p.aspx>

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PE3W04832 CAD Drawing

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