

TNC Male to QN Male Low Loss Cable Using LMR-195 Coax



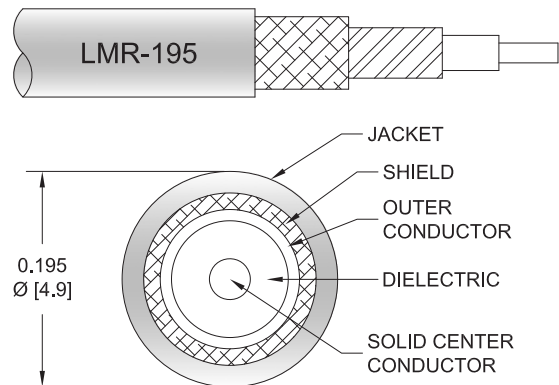
PE3W01199

Configuration

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

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W01199 TNC male to QN male 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 TNC to QN cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3W01199 TNC male to QN male cable assembly operates to 6 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		6	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]

TNC Male to QN Male Low Loss Cable Using LMR-195 Coax



PE3W01199

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	250	500	1000	2500	6000	MHz	
PE3W01199	Custom Lengths Available	Insertion Loss (Typ.)	0.057	0.081	0.116	0.19	0.299	dB/ft	
			0.19	0.27	0.39	0.63	0.99	dB/m	
PE3W01199-12	12 In	Insertion Loss (Typ.)	0.26	0.29	0.32	0.39	0.5	dB	0.095
PE3W01199-24	24 In	Insertion Loss (Typ.)	0.32	0.37	0.44	0.58	0.8	dB	0.118
PE3W01199-36	36 In	Insertion Loss (Typ.)	0.38	0.45	0.55	0.77	1.1	dB	0.14
PE3W01199-48	48 In	Insertion Loss (Typ.)	0.43	0.53	0.67	0.96	1.4	dB	0.162
PE3W01199-60	60 In	Insertion Loss (Typ.)	0.49	0.61	0.78	1.15	1.7	dB	0.184

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:	0.095 pounds
Additional Weight per Inch:	0.00184 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.095 lbs [43.09 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]

TNC Male to QN Male Low Loss Cable Using LMR-195 Coax



PE3W01199

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	QN Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		100
Contact Material and Plating	Brass, Gold	Brass, Silver
Contact Plating Specification	30 µin minimum	
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Beryllium Copper
Body Material and Plating	Brass, Nickel	Brass, Silver
Body Plating Specification	100 µin minimum	
Coupling Nut Material and Plating	Brass, Nickel	Brass, Silver
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:

TNC Male to QN Male Low Loss Cable Using LMR-195 Coax



PE3W01199

Typical Performance Data

How to Order

Part Number Configuration:

PE3W01199

- XX

uu

- Unit of Measure:
cm = Centimeters
<blank> = Inches

- Length

- Base Number

Example: PE3W01199-12 = 12 inches long cable
PE3W01199-100cm = 100 cm long cable

TNC Male to QN Male 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [TNC Male to QN Male Low Loss Cable Using LMR-195 Coax PE3W01199](#)

URL: <https://www.pasternack.com/tnc-male-to-qn-male-low-loss-cable-using-lmr-195-pe3w01199-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE3W01199 CAD Drawing
TNC Male to QN Male Low Loss Cable Using LMR-195 Coax

