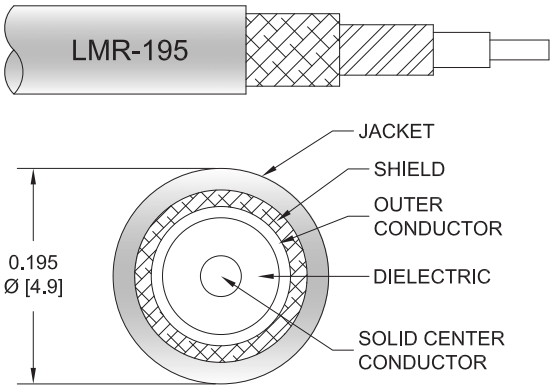
N Female to TNC Male Low Loss Cable Using LMR-195 Coax

PE3C10235

Configuration

- Connector 1: N Female
- Connector 2: TNC Male
- Cable Type: LMR-195
- Coax Cable Group: 3
- Coax Flex Type: Flexible



Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C10235 type N female to TNC 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 type N to TNC cable assembly has a female to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3C10235 type N female to TNC male cable assembly operates to 5.8 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		5.8	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]

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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	250	500	1000	2500	5800	MHz	
PE3C10235	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	
PE3C10235-12	12 In	Insertion Loss (Typ.)	0.26	0.29	0.32	0.39	0.5	dB	0.118
PE3C10235-24	24 In	Insertion Loss (Typ.)	0.32	0.37	0.44	0.58	0.8	dB	0.141
PE3C10235-36	36 In	Insertion Loss (Typ.)	0.38	0.45	0.55	0.77	1.1	dB	0.163
PE3C10235-48	48 In	Insertion Loss (Typ.)	0.43	0.53	0.67	0.96	1.4	dB	0.185
PE3C10235-60	60 In	Insertion Loss (Typ.)	0.49	0.61	0.78	1.15	1.7	dB	0.207

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:	0.118	pounds
Additional Weight per Inch:	0.00184	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.118 lbs [53.52 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	N Female	TNC Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	Teflon
Outer Conductor Material and Plating	Brass, Nickel	
Body Material and Plating	Brass, Nickel	Brass, Silver
Coupling Nut Material and Plating		Brass, Silver

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

How to Order

Part Number Configuration: **PE3C10235 - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C10235 — Base Number

Example: PE3C10235-12 = 12 inches long cable
PE3C10235-100cm = 100 cm long cable

N Female to TNC 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: N Female to TNC Male Low Loss Cable Using LMR-195 Coax PE3C10235

URL: https://www.pasternack.com/n-female-to-tnc-male-low-loss-cable-using-lmr-195-pe3c10235-p.aspx

PE3C10235 CAD Drawing

N Female to TNC Male Low Loss Cable Using LMR-195 Coax