

## TNC Male to SMA Male Low Loss Cable Using LMR-195-UF Coax



### PE3W12885

#### Configuration

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

#### Features

- Max Frequency 6 MHz
- Shielding Effectivity > 90 dB
- 74% Phase Velocity
- Double Shielded
- TPE Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

Pasternack's PE3W12885 TNC male to SMA male cable using LMR-195-UF 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 SMA cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195-UF coax. The PE3W12885 TNC male to SMA male cable assembly operates to 6 MHz. 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			1.5:1	
Velocity of Propagation		74		%
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		9.5 [31.17]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Operating Voltage (AC)			500	Vrms

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**PE3W12885**

**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					MHz	
PE3W12885	Custom Lengths Available	Insertion Loss (Typ.)	0.068	0.097	0.139	0.226	0.356	dB/ft	
			0.23	0.32	0.46	0.75	1.17	dB/m	
PE3W12885-12	12 Inch	Insertion Loss (Typ.)	0.27	0.3	0.34	0.43	0.56	dB	0.07
PE3W12885-24	24 Inch	Insertion Loss (Typ.)	0.34	0.4	0.48	0.66	0.92	dB	0.091
PE3W12885-36	36 Inch	Insertion Loss (Typ.)	0.41	0.5	0.62	0.88	1.27	dB	0.112
PE3W12885-60	60 Inch	Insertion Loss (Typ.)	0.54	0.69	0.9	1.33	1.98	dB	0.154
PE3W12885-300	300 Inch	Insertion Loss (Typ.)	1.9	2.63	3.68	5.85	9.1	dB	0.574

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: 0.07 pounds
- Additional Weight per Inch: 0.00175 pounds

Electrical Specification Notes:  
Values at 25°C, sea level.

**Mechanical Specifications**

**Cable Assembly**

- Width/Diameter 0.5 in [12.7 mm]
- Weight 0.049 lbs [22.23 g]

**Cable**

- Cable Type LMR-195-UF
- Impedance 50 Ohms
- Inner Conductor Type Stranded
- Inner Conductor Material and Plating Copper
- Dielectric Type Foam PE
- Number of Shields 2
- Shield Layer 1 Aluminum Tape
- Shield Layer 2 Tinned Copper
- Jacket Material TPE, 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 0.1 lbs-ft [0.14 N-m]
- Flat Plate Crush 10 lbs/in [0.18 Kg/mm]
- Tensile Strength 40 lbs [18.14 Kg]

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**Connectors**

Description	Connector 1	Connector 2
Type	TNC Male	SMA 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 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum
Hex Size		5/16 inch
Torque		3 in-lbs 0.34 Nm

**Environmental Specifications**

Operating Range Temperature -40 to +85 deg C

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

**Plotted and Other Data**

Notes:  
Values at 25°C, sea level.

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### PE3W12885

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**PE3W12885**

**- xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: PE3W12885-12 = 12 inches long cable  
PE3W12885-100cm = 100 cm long cable

TNC Male to SMA Male Low Loss Cable Using LMR-195-UF 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 SMA Male Low Loss Cable Using LMR-195-UF Coax PE3W12885](#)

URL: <https://www.pasternack.com/tnc-male-to-sma-male-low-loss-cable-using-lmr-195-uf-pe3w12885-p.aspx>

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# PE3W12885 CAD Drawing

TNC Male to SMA Male Low Loss Cable Using LMR-195-UF Coax

