

TNC Male Right Angle to SMB Plug Right Angle Low Loss Cable Using LMR-195-UF Coax with HeatShrink



PE3W12863/HS

Configuration

- Connector 1: TNC Male Right Angle
- Connector 2: SMB Plug Right Angle
- Cable Type: LMR-195-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 3 MHz
- Shielding Effectivity > 90 dB
- 74% Phase Velocity
- Double Shielded
- TPE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12863/HS TNC male right angle to SMB plug right angle 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 SMB cable assembly has a male to plug gender configuration with 50 ohm flexible LMR-195-UF coax. The PE3W12863/HS TNC male to SMB plug cable assembly operates to 3 MHz. The right angle TNC and right angle SMB interfaces on the LMR-195-UF cable allow for easier connections in tight spaces. 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		3	GHz
VSWR			1.3:1	
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)			335	Vrms

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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	3000	MHz	
PE3W12863/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.042	0.068	0.097	0.132	0.246	dB/ft	
			0.14	0.23	0.32	0.44	0.81	dB/m	
PE3W12863/HS-12	12 Inch	Insertion Loss (Typ.)	0.45	0.47	0.5	0.54	0.65	dB	0.099
PE3W12863/HS-24	24 Inch	Insertion Loss (Typ.)	0.49	0.54	0.6	0.67	0.9	dB	0.12
PE3W12863/HS-36	36 Inch	Insertion Loss (Typ.)	0.53	0.61	0.7	0.8	1.14	dB	0.141
PE3W12863/HS-60	60 Inch	Insertion Loss (Typ.)	0.61	0.74	0.89	1.06	1.63	dB	0.183
PE3W12863/HS-300	300 Inch	Insertion Loss (Typ.)	1.45	2.1	2.83	3.7	6.55	dB	0.603

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: 0.2 dB

Loss due to Connector 2: 0.2 dB

Base Weight: 0.099 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 0.078 lbs [35.38 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 Right Angle	SMB Plug Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Beryllium Copper, 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	100 μ in minimum
Coupling Nut Material and Plating	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:

Values at 25°C, sea level.

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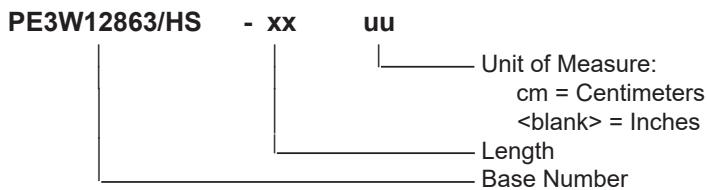


PE3W12863/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W12863/HS-12 = 12 inches long cable
PE3W12863/HS-100cm = 100 cm long cable

TNC Male Right Angle to SMB Plug Right Angle Low Loss Cable Using LMR-195-UF Coax with 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: [TNC Male Right Angle to SMB Plug Right Angle Low Loss Cable Using LMR-195-UF Coax with HeatShrink PE3W12863/HS](#)

URL: <https://www.pasternack.com/tnc-male-right-angle-to-smb-plug-low-loss-cable-using-lmr-195-uf-with-heatshrink-pe3w12863-hs-p.aspx>

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PE3W12863/HS CAD Drawing

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