

SMA Male to TNC Female Bulkhead Low Loss Cable 60 Inch Length Using LMR-195 Coax



RF Cable Assemblies Technical Data Sheet

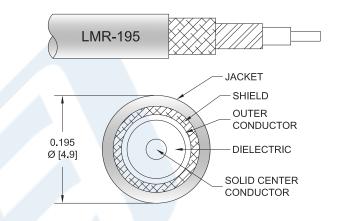
PE3W02172-60

Configuration

- · Connector 1: SMA Male
- Connector 2: TNC Female Bulkhead
- Cable Type: LMR-195

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 PE3W02172-60 SMA male to TNC female bulkhead 60 inch 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 SMA to TNC cable assembly has a male to female gender configuration with 50 ohm flexible LMR-195 coax. The PE3W02172-60 SMA male to TNC female cable assembly operates to 5.8 GHz. Our RF cable assembly with TNC bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male to TNC Female Bulkhead Low Loss Cable 60 Inch Length Using LMR-195 Coax PE3W02172-60

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 Phone: (868) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com . Techsupport@Pasternack.com



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Electrical Specifications

Minimum	Typical	Maximum	Units
DC		5.8	GHz
	/ 1980	1.4:1	
	80		%
90			dB
	1.27 [4.17]		ns/ft [ns/m]
	25.4 [83.33]		pF/ft [pF/m]
	0.064 [0.21]		uH/ft [uH/m]
	7.6 [24.93]		Ω/1000ft [Ω/Km]
	4.9 [16.08]		Ω/1000ft [Ω/Km]
		3,000	Vrms
	DC	90 1.27 [4.17] 25.4 [83.33] 0.064 [0.21] 7.6 [24.93]	DC 5.8 1.4:1 80 90 1.27 [4.17] 25.4 [83.33] 0.064 [0.21] 7.6 [24.93] 4.9 [16.08]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	5.8	GHz
Insertion Loss (Typ.)	0.37	0.48	0.6	0.78	1.69	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax cable and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 60 in [152.4 cm] Diameter 0.689 in [17.5 mm]

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 Shield Layer 1

Aluminum Tape Shield Layer 2 **Tinned Copper Braid** PE, Black Jacket Material

Jacket Diameter 0.195 in [4.95 mm]

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One Time Minimum Bend Radius Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 0.5 in [12.7 mm] 2 in [50.8 mm] 0.2 lbs-ft [0.27 N-m] 15 lbs/in [0.27 Kg/mm] 40 lbs [18.14 Kg]

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Male	TNC Female Bulkhead	
Specification	MIL-STD-348A	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification	50 μin minimum	30 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		
Coupling Nut Plating Specification	100 μin minimum		
Hex Size	5/16 inch		
Torque	3 in-lbs [0.34 Nm]		

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C Storage Range -70 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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How to Order



Example: PE3W02172-12 = 12 inches long cable

PE3W02172-100cm = 100 cm long cable

SMA Male to TNC Female Bulkhead Low Loss Cable 60 Inch Length 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.

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URL: https://www.pasternack.com/sma-male-tnc-female-lmr195-cable-assembly-pe3w02172-60-p.aspx

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PE3W02172-60 CAD DrawingSMA Male to TNC Female Bulkhead Low Loss Cable 60 Inch Length Using LMR-195 Coax

