



TECHNICAL DATA SHEET

PE3W06803

Configuration

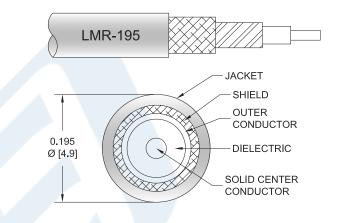
· Connector 1: N Female Bulkhead

Connector 2: TNC MaleCable Type: LMR-195

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 PE3W06803 type N female bulkhead 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 PE3W06803 type N female to TNC male cable assembly operates to 5.8 GHz. Our RF cable assembly with type N 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: N Female Bulkhead to TNC Male Low Loss Cable Using LMR-195 Coax PE3W06803

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR		750	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]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		4.9 [16.08]	10	Ω/1000ft [Ω/Km]
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	
PE3W06803	Custom Lengths	Insertion Loss (Typ.)	0.06	0.08	0.12	0.19	0.3	dB/ft	
FE3W00803	Available		0.19	0.27	0.39	0.63	0.99	dB/m	
PE3W06803-12	12 inch	Insertion Loss (Typ.)	0.26	0.29	0.32	0.39	0.5	dB	0.146
PE3W06803-24	24 inch	Insertion Loss (Typ.)	0.32	0.37	0.44	0.58	0.8	dB	0.169
PE3W06803-36	36 inch	Insertion Loss (Typ.)	0.38	0.45	0.55	0.77	1.1	dB	0.191
PE3W06803-48	48 inch	Insertion Loss (Typ.)	0.43	0.53	0.67	0.96	1.4	dB	0.213
PE3W06803-60	60 inch	Insertion Loss (Typ.)	0.49	0.61	0.78	1.15	1.7	dB	0.235

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: 0.146 pounds
Additional Weight per Inch: 0.00075 pounds

Mechanical Specifications

Cable Assembly

Weight 0.146 lbs [66.22 g]

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Cable

Cable Type
Impedance
Inner Conduct

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields

Shield Layer 1

Shield Layer 2

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius Repeated Minimum Bend Radius

Bending Moment

Flat Plate Crush Tensile Strength LMR-195

50 Ohms

Solid

Copper

PE (F)

2

Aluminum Tape

Tinned Copper Braid

PE, Black

0.195 in [4.95 mm]

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	N Female Bulkhead Threaded	TNC Male Threaded
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Phosphor Bronze, Gold	Brass, Gold
Contact Plating Specification		30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Nickel
Body Plating Specification		100 μin minimum
Coupling Nut Material and Plating		Brass, Nickel
Coupling Nut Plating Specification		100 µin minimum

Environmental Specifications

Temperature

Operating Range -40 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: PE3W06803-12 = 12 inches long cable

PE3W06803-100cm = 100 cm long cable

N Female Bulkhead 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 Bulkhead to TNC Male Low Loss Cable Using LMR-195 Coax PE3W06803

URL: https://www.pasternack.com/n-female-bulkhead-to-tnc-male-low-loss-cable-using-lmr-195-pe3w06803-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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PE3W06803 CAD Drawing N Female Bulkhead to TNC Male Low Loss Cable Using LMR-195 Coax INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 ⋖ APPROVED N Female Bulkhead to TNC Male Low Loss Cable Using LMR-195 AGANWANI 1 PF 3/4 HEX $\phi.535$ 13.59 Z PE3W06803 NONE CHANGED BY \bigoplus 22.0 RECOMMENDED MOUNTING HOLE KDANG .87 BULKHEAD CONNECTOR N FEMALE PASTERNACK ITEM NO. Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 10/2/2023 DATE an INFINIT® brand N MAX PANEL **KDANG** REVISION [7.62] $\emptyset.630[16.00]$ **DRAWN BY** INITIAL RELEASE DESCRIPTION CAGE CODE 53919 SIZE ⋖ ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE.
UN-DIMENSIONED/NON-CRITICAL FEATURES
MAY VARY IN SIZE AND LOCATION
COLORS MAY VARY ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILL IMETERS FRACTIONS CABLE LENGTH TOLERANCES: >12 [305] = +1 [25]/ >12 [305] ≤ 60 [1524] = +2 [51]/ >60 [1524] = +2 [51]/ >60 [1524] = +4 [102]/ >120 [3048] = 300 [7620] = +6 [152]/ >300 [7620] = +6 [152]/ -က TOLERANCES -LABEL SEE NOTE 1 REV .X = ±.2 [5] .XX = ±.02 [0.5] .XXX = ±.005 [0.13] ⋖ ZONE WWW.PASTERNACK.COM PEXXXXXXXX-XX SEE NOTE 2 CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL LENGTH THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PRAT OR WINDLE WITHOUT THE WITHEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITES, TECHNOLICGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAWP PROHIBITED. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY. -LMR-195 COAX CABLE 2X CRIMP FERRULE 2 6 INCHES FROM EACH CONNECTOR. -TNC MALE CONNECTOR 9 NOTES: PE DS Rev-D4 Asize oi ω D ш ш O В ⋖