



RF Cable Assemblies Technical Data Sheet

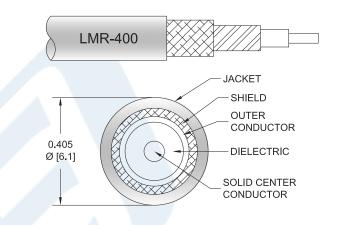
PE3W03803-24

Configuration

Connector 1: N MaleConnector 2: 7/16 DIN MaleCable Type: LMR-400

Features

- Max Frequency 3 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- · Double Shielded
- PE Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3W03803-24 type N male to 7/16 DIN male 24 inch cable using LMR-400 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 7/16 DIN cable assembly has a male to male gender configuration with 50 ohm flexible LMR-400 coax. The PE3W03803-24 type N male to 7/16 DIN male cable assembly operates to 3 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to 7/16 DIN Male Low Loss Cable 24 Inch Length Using LMR-400 Coax PE3W03803-24

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

Sales@Pasternack.com • Techsupport@Pasternack.com





RF Cable Assemblies Technical Data Sheet

PE3W03803-24

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR		più.	1.4:1	
Return Loss			-15.56	dB
Velocity of Propagation		85		%
RF Shielding	90			dB
Group Delay		1.2 [3.94]		ns/ft [ns/m]
Capacitance		23.9 [78.41]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		1.39 [4.56]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.65 [5.41]		Ω/1000ft [Ω/Km]
Jacket Spark		A	8,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Max.)	0.22	0.24	0.26	0.28	0.34	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector loss.

Mechanical Specifications

Cable Assembly

Length* 24 in [609.6 mm]
Diameter 1.25 in [31.75 mm]

Cable

Cable Type LMR-400 Impedance 50 Ohms Inner Conductor Type Solid

Inner Conductor Material and Plating Copper Clad Aluminum

Dielectric Type PE (F)
Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to 7/16 DIN Male Low Loss Cable 24 Inch Length Using LMR-400 Coax PE3W03803-24

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

Sales@Pasternack.com • Techsupport@Pasternack.com





RF Cable Assemblies Technical Data Sheet

PE3W03803-24

Jacket Material PE, Black

Jacket Diameter 0.405 in [10.29 mm]

One Time Minimum Bend Radius
Repeated Minimum Bend Radius
4 in [101.6 mm]
Bending Moment
O.5 lbs-ft [0.68 N-m]
Flat Plate Crush
40 lbs/in [0.71 Kg/mm]
Tensile Strength
160 lbs [72.57 Kg]

Connectors

Description	Connector 1	Connector 2		
Туре	N Male	7/16 DIN Male		
Impedance	50 Ohms	50 Ohms		
Contact Material and Plating	Beryllium Copper, Gold	Spring Copper, Silver		
Contact Plating Specification	1.27 µm minimum	200μ in. minimum		
Dielectric Type	PTFE	PTFE		
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Body Plating Specification	2 µm minimum	150μ in. minimum		
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal		
Coupling Nut Plating Specification	2 µm minimum	150μ in. minimum		
Hex Size	20.57 mm			
Torque	44 in-lbs [4.97 Nm]			

Mechanical Specification Notes:

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to 7/16 DIN Male Low Loss Cable 24 Inch Length Using LMR-400 Coax PE3W03803-24

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

Sales@Pasternack.com • Techsupport@Pasternack.com

^{*}All cable assemblies have a length tolerance of 1.5% or ± 3/8", whichever is greater.

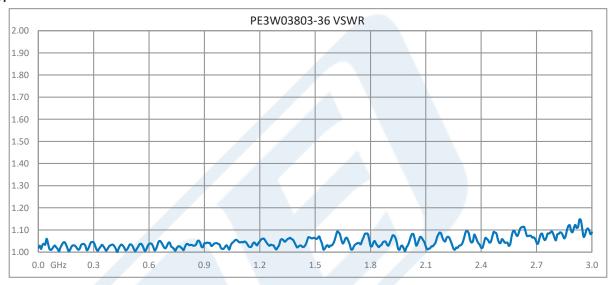




RF Cable Assemblies Technical Data Sheet

PE3W03803-24

Typical Performance Data



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: N Male to 7/16 DIN Male Low Loss Cable 24 Inch Length Using LMR-400 Coax PE3W03803-24

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623

Phone: (866) 727-8376 or (949) 261-1920 • Fax: (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





RF Cable Assemblies Technical Data Sheet

PE3W03803-24

How to Order



Example: PE3W03803-12 = 12 inches long cable PE3W03803-100cm = 100 cm long cable

N Male to 7/16 DIN Male Low Loss Cable 24 Inch Length Using LMR-400 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 Male to 7/16 DIN Male Low Loss Cable 24 Inch Length Using LMR-400 Coax PE3W03803-24

URL: https://www.pasternack.com/n-male-7-16-din-male-Imr400-cable-assembly-pe3w03803-24-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.

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

PE3W03803-24 CAD Drawing
N Male to 7/16 DIN Male Low Loss Cable 24 Inch Length Using LMR-400 Coax

