



RF Cable Assemblies Technical Data Sheet

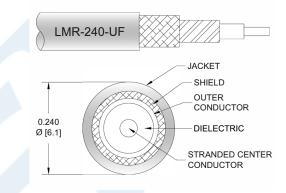
PE3W05228

Configuration

- · Connector 1: N Male
- · Connector 2: N Female Bulkhead
- Cable Type: LMR-240-UF

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 84% Phase Velocity
- · Double Shielded
- TPE Jacket



Applications

· General Purpose

· Laboratory Use

Description

Pasternack's PE3W05228 type N male to type N female bulkhead cable using LMR-240-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 type N to type N cable assembly has a male to female gender configuration with 50 ohm flexible LMR-240-UF coax. The PE3W05228 type N male to type N female 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 Male to N Female Bulkhead Low Loss Cable Using LMR-240-UF Coax With Times Microwave Components PE3W05228

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





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR		/ Jil.	1.4:1	
Velocity of Propagation		84		%
RF Shielding	90			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		4.28 [14.04]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	Vrms

Specifications by Frequency

•						
Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.046	0.066	0.095	0.155	0.244	dB/ft
	0.15	0.22	0.31	0.51	8.0	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Cable

Cable Type LMR-240-UF Impedance 50 Ohms Inner Conductor Type Stranded Inner Conductor Material and Plating Copper Dielectric Type PE (F) Number of Shields 2

Shield Layer 1 Aluminum Tape
Shield Layer 2 Tinned Copper Braid
Jacket Material TPE, Black
Jacket Diameter 0.24 in [6.1 mm]

One Time Minimum Bend Radius 0.75 in [19.05 mm]

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Repeated Minimum Bend Radius Bending Moment Flat Plate Crush Tensile Strength 2.5 in [63.5 mm] 0.13 lbs-ft [0.18 N-m] 13 lbs/in [0.23 Kg/mm] 80 lbs [36.29 Kg]

Connectors

Description	Connector 1	Connector 2	
Туре	N Male	N Female Bulkhead	
Specification	MIL-STD-348 MIL-STD-3		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold	
Contact Plating Specification	50 μin minimum	50 μin minimum	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating		Brass, Tri-Metal	
Outer Conductor Plating Specification		80 μin minimum	
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal	
Body Plating Specification	80 μin minimum	80 μin minimum	
Coupling Nut Material and Plating	Brass, Tri-Metal		
Coupling Nut Plating Specification	80 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: PE3W05228-12 = 12 inches long cable PE3W05228-100cm = 100 cm long cable

N Male to N Female Bulkhead Low Loss Cable Using LMR-240-UF Coax With Times Microwave Components 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/n-male-to-n-female-bulkhead-low-loss-cable-using-lmr-240-uf-pe3w05228-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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PE3W05228 CAD Drawing
N Male to N Female Bulkhead Low Loss Cable Using LMR-240-UF Coax With Times Microwave Components ш ш INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 N Male to N Female Bulkhead Low Loss Cable Using LMR-240-UF **APPROVED** AGANWANI 1 P $\phi.535$ 13.59 Z SHEET CONNECTOR N FEMALE BULKHEAD 24.1 PE3W05228 RECOMMENDED MOUNTING HOLE .95 NONE CHANGED BY KDANG 3/4 HEX PASTERNACK ITEM NO. Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 4/13/2023 **MAX PANEL** DATE [6.35]an INFINIT® brand Ø.630[16.00] KDANG REVISION DRAWN BY INITIAL RELEASE DESCRIPTION CAGE CODE SIZE ⋖ ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. <12 [305] = +1 [25] /-0</p>
>12 [305] ≤ 60 [1524] = +2 [51] /-0
>60 [1524] ≤ 120 [3048] = +4 [102] /-0
>120 [3048] ≤ 300 [7620] = +6 [152] /-0 ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS FRACTIONS CABLE LENGTH TOLERANCES: >300 [7620] = +5% / -0 က -LABEL SEE NOTE 1 TOLERANCES: ÆV $X = \pm .2$ [5] $XX = \pm .02$ [.5] $XX = \pm .02$ [.7] ⋖ ZONE WWW.PASTERNACK.COM PEXXXXXXXX LENGTH CABLE ASSY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED.
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