



7/16 DIN Female Bulkhead to 7/16 DIN Female Bulkhead Low Loss Cable Using LMR-400 Coax

TECHNICAL DATA SHEET

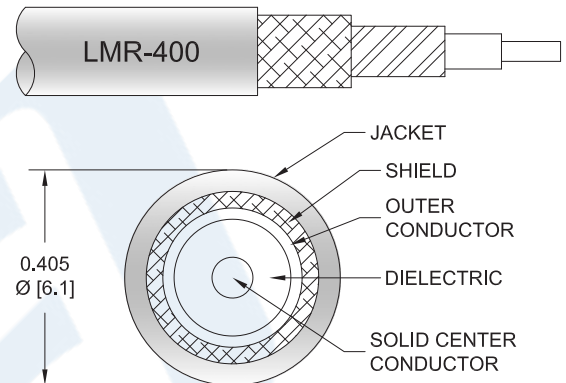
PE3C2713

Configuration

- Connector 1: 7/16 DIN Female Bulkhead
- Connector 2: 7/16 DIN Female Bulkhead
- Cable Type: LMR-400
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C2713 7/16 DIN female bulkhead to 7/16 DIN female bulkhead 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 7/16 DIN to 7/16 DIN cable assembly has a female to female gender configuration with 50 ohm flexible LMR-400 coax. The PE3C2713 7/16 DIN female to 7/16 DIN female cable assembly operates to 3 GHz. Our RF cable assembly with 7/16 DIN 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: [7/16 DIN Female Bulkhead to 7/16 DIN Female Bulkhead Low Loss Cable Using LMR-400 Coax PE3C2713](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
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			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	3000	MHz	
PE3C2713	Custom Lengths Available	Insertion Loss (Typ.)	0.01	0.02	0.03	0.04	0.07	dB/ft	
			0.04	0.07	0.1	0.14	0.25	dB/m	
PE3C2713-12	12 inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.25	0.28	dB	0.673
PE3C2713-24	24 inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.29	0.35	dB	0.741
PE3C2713-36	36 inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.33	0.43	dB	0.808
PE3C2713-48	48 inch	Insertion Loss (Typ.)	0.25	0.28	0.32	0.37	0.5	dB	0.875
PE3C2713-60	60 inch	Insertion Loss (Typ.)	0.26	0.3	0.34	0.41	0.57	dB	0.942

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:	0.673 pounds
Additional Weight per Inch:	0.00559 pounds

Mechanical Specifications

Cable Assembly

Weight 0.673 lbs [305.27 g]

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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
Jacket Material	PE, Black
Jacket Diameter	0.405 in [10.29 mm]
One Time Minimum Bend Radius	1 in [25.4 mm]
Repeated Minimum Bend Radius	4 in [101.6 mm]
Bending Moment	0.5 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
Type	7/16 DIN Female Bulkhead Threaded	7/16 DIN Female Bulkhead Threaded
Specification	IEC 61169-4	IEC 61169-4
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Spring Copper, Silver	Spring Copper, Silver
Contact Plating Specification	5 µm minimum	5 µm minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	2 µm minimum	2 µm 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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Bulkhead Low Loss Cable Using LMR-400 Coax

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How to Order

Part Number Configuration:

PE3C2713

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C2713-12 = 12 inches long cable
PE3C2713-100cm = 100 cm long cable

7/16 DIN Female Bulkhead to 7/16 DIN Female Bulkhead Low Loss Cable 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: [7/16 DIN Female Bulkhead to 7/16 DIN Female Bulkhead Low Loss Cable Using LMR-400 Coax PE3C2713](#)

URL: <https://www.pasternack.com/7-16-din-female-bulkhead-to-7-16-din-female-bulkhead-low-loss-cable-using-lmr-400-pe3c2713-p.aspx>

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1. CABLE ASSY LENGTH LABEL PLACEMENT : 36 INCHES OR LESS, ONE LABEL APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
$.X = \pm .02$ [5]	FRACTIONS $\pm 1/32$
$.XX = \pm .005$ [0.13]	ANGLES $\pm 1^\circ$
CABLE LEAD TOLERANCES:	
≤ 12 [305] = ± 1 [25] / -0 >12 [305] ≤ 160 [1524] = ± 1 [25] / -0 >60 [1524] ≤ 120 [3048] = ± 4 [102] / -0 >120 [3048] ≤ 300 [7620] = ± 4 [102] / -0 >300 [7620] = $\pm 5\%$ / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY DIMENSIONS IN PARENTHESES ARE UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY	

 PASTERNAK® an INFINITI® brand			
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5			
SCALE NONE		SHEET 1 OF 1	
DESCRIPTION			
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920			
7/16 DIN Female Bulkhead to 7/16 DIN Female Bulkhead Low Loss Cable Using LMR-400 Coax			
SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KDANG	PE3C2713
			REV
			A