



SMA Male to N Female Bulkhead Low Loss Cable Using LMR-100 Coax

TECHNICAL DATA SHEET

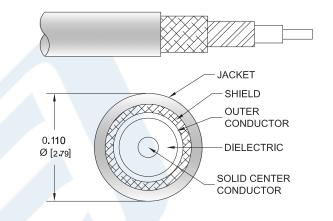
PE3C1101

Configuration

- · Connector 1: SMA Male
- · Connector 2: N Female Bulkhead
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- · 66% Phase Velocity
- · Double Shielded
- PVC Jacket



Applications

General Purpose

· Laboratory Use

Description

Pasternack's PE3C1101 SMA male to type N female bulkhead cable using LMR-100 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 type N cable assembly has a male to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3C1101 SMA 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: SMA Male to N Female Bulkhead Low Loss Cable Using LMR-100 Coax PE3C1101

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		JAME .	1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Group Delay		1.54 [5.05]		ns/ft [ns/m]
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Inductance		0.077 [0.25]		uH/ft [uH/m]
DC Resistance Inner Conductor		81 [265.75]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		9.5 [31.17]	100	Ω/1000ft [Ω/Km]
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Fait Nullibel		Frequency	250	500	1000	2500	5800	MHz	
PE3C1101	Custom Lengths	Insertion Loss (Typ.)	0.12	0.17	0.24	0.4	0.64	dB/ft	
F L3C1101	Available Misertion Loss (Typ.)	1113C1 11011 L033 (19p.)	0.38	0.55	0.79	1.31	2.11	dB/m	
PE3C1101-24	24 inch	Insertion Loss (Typ.)	0.43	0.53	0.68	1	1.49	dB	0.113
PE3C1101-36	36 inch	Insertion Loss (Typ.)	0.55	0.7	0.92	1.4	2.13	dB	0.122
PE3C1101-48	48 inch	Insertion Loss (Typ.)	0.66	0.86	1.16	1.8	2.77	dB	0.131
PE3C1101-100CM	100 cm	Insertion Loss (Typ.)	0.58	0.75	0.99	1.51	2.31	dB	0.125
PE3C1101-200CM	200 cm	Insertion Loss (Typ.)	0.96	1.29	1.78	2.82	4.41	dB	0.155

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:

0.104 pounds

Additional Weight per Inch:

0.00075 pounds

Mechanical Specifications

Cable Assembly

Weight 0.104 lbs [47.17 g]

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Cable

Cable Type Impedance

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-100A 50 Ohms Solid

Copper Clad Steel

PE

2

Aluminum Tape

Tinned Copper Braid

PVC, Black

0.11 in [2.79 mm]

0.25 in [6.35 mm] 1 in [25.4 mm]

0.1 lbs-ft [0.14 N-m] 10 lbs/in [0.18 Kg/mm]

15 lbs [6.8 Kg]

Connectors

Description	Connector 1	Connector 2			
Туре	SMA Male Threaded	N Female Bulkhead Threaded			
Specification	MIL-STD-348A	MIL-STD-348A			
Impedance	50 Ohms	50 Ohms			
Mating Cycles		100			
Contact Material and Plating	Brass, Gold	Brass, Gold			
Contact Plating Specification	30μ in. Min	30μ in. minimum			
Dielectric Type	PTFE	PTFE			
Body Material and Plating	Brass, Nickel	Brass, Nickel			
Body Plating Specification	100μ in. Minimum	100μ in. minimum			
Coupling Nut Material and Plating	Brass, Nickel				
Coupling Nut Plating Specification	100μ in. Minimum				
Hex Size	5/16 in				
Torque	5 in-lbs [0.57 Nm]				

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

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Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

How to Order

PE3C1101 Part Number Configuration: uu - Unit of Measure: cm = Centimeters <blank> = Inches Length Base Number

Example: PE3C1101-12 = 12 inches long cable

PE3C1101-100cm = 100 cm long cable

SMA Male to N Female Bulkhead Low Loss Cable Using LMR-100 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-to-n-female-bulkhead-low-loss-cable-using-lmr-100-pe3c1101-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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PE3C1101 CAD Drawing SMA Male to N Female Bulkhead Low Loss Cable Using LMR-100 Coax ш INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 ⋖ SMA Male to N Female Bulkhead Low Loss Cable Using LMR-100 APPROVED AGANWANI 1 OF 3/4 HEX PE3C1101 NONE CHANGED BY \bigoplus KDANG [23.3] Ø.535 13.59 92 Z S PASTERNACK ITEM NO. RECOMMENDED MOUNTING HOLE Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 10/2/2023 DATE N FEMALE-BULKHEAD CONNECTOR an INFINIT® brand N KDANG REVISION MAX PANEL **DRAWN BY** [8.31] .327 1/2 HEX INITIAL RELEASE DESCRIPTION CAGE CODE ϕ .630[16.00] 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 UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILL IMETERS ± 1/32 ANGLES ± 1° 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 REV $X = \pm .2$ [5] $XX = \pm .02$ [0.5] $XXX = \pm .005$ [0.13] ⋖ ZONE SEE NOTE 1 -LABEL WWW.PASTERNACK.COM PEXXXXXXXX-XX 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 WINNELS WITHOUT THE WITHEN PREMOUSS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLLOSY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED. SEE NOTE 2 CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION. LENGTH APPROX CENTERED. LONGER THAN 36 INCHES, TWO LABELS APPROX CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY. LMR-100A-PVC COAX CABLE 2X CRIMP FERRULE 2 6 INCHES FROM EACH CONNECTOR. 5/16 HEX CONNECTOR SMA MALE 9 NOTES PE DS Rev-D4 Asize 0, ε D ш ш O В ⋖