N Female Bulkhead to N Male Low Loss Cable Using LMR-600-UF Coax with HeatShrink

PE3W12911/HS

Configuration

- Connector 1: N Female Bulkhead
- Connector 2: N Male
- Cable Type: LMR-600-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- TPE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W12911/HS type N female bulkhead to type N male cable using LMR-600-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 female to male gender configuration with 50 ohm flexible LMR-600-UF coax. The PE3W12911/HS type N female to type N male cable assembly operates to 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8	GHz
VSWR			1.4:1	
Velocity of Propagation		87		%
RF Shielding	90			dB
Group Delay		1.17 [3.84]		ns/ft [ns/m]
Capacitance		23.4 [76.77]		pF/ft [pF/m]
Inductance		0.058 [0.19]		uH/ft [uH/m]
DC Resistance Inner Conductor		0.43 [1.41]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		1.2 [3.94]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			8,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2000	4000	8000	MHz	
PE3W12911/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.022	0.032	0.047	0.062	0.087	dB/ft	
			0.08	0.11	0.16	0.21	0.29	dB/m	
PE3W12911/HS-12	12 inch	Insertion Loss (Typ.)	0.23	0.24	0.25	0.27	0.29	dB	0.424
PE3W12911/HS-24	24 inch	Insertion Loss (Typ.)	0.25	0.27	0.3	0.33	0.38	dB	0.601
PE3W12911/HS-36	36 inch	Insertion Loss (Typ.)	0.27	0.3	0.35	0.39	0.47	dB	0.777
PE3W12911/HS-60	60 inch	Insertion Loss (Typ.)	0.31	0.36	0.44	0.51	0.64	dB	1.129
PE3W12911/HS-300	300 inch	Insertion Loss (Typ.)	0.75	1	1.38	1.75	2.38	dB	4.649

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:	0.424	pounds
Additional Weight per Inch:	0.01467	pounds

Mechanical Specifications

Cable Assembly
Width/Diameter	0.5 in [12.7 mm]
Weight	0.424 lbs [192.32 g]

Cable
Cable Type	LMR-600-UF
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper
Dielectric Type	Foam PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper
Jacket Material	TPE, Black
Jacket Diameter	0.59 in [14.99 mm]
One Time Minimum Bend Radius	1.5 in [38.1 mm]
Repeated Minimum Bend Radius	6 in [152.4 mm]
Bending Moment	1.75 lbs-ft [2.37 N-m]
Flat Plate Crush	40 lbs/in [0.71 Kg/mm]
Tensile Strength	350 lbs [158.76 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	N Female Bulkhead	N Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	
Contact Material and Plating	Phosphor Bronze, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating		Brass, Tri-Metal

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

+1 (866) 558-2786 | sales@pasternack.com | **pasternack.com**

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PE3W12911/HS

Typical Performance Data

How to Order

Part Number Configuration: **PE3W12911/HS** - xx   uu

Unit of Measure:
cm = Centimeters
<blank> = Inches

Length

Base Number
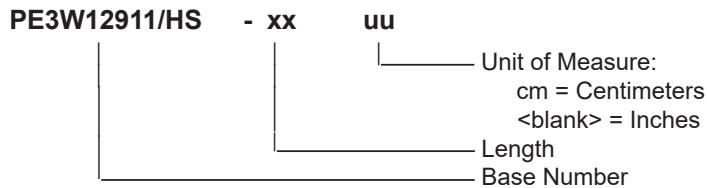
Example: PE3W12911/HS-12 = 12 inches long cable
PE3W12911/HS-100cm = 100 cm long cable

N Female Bulkhead to N Male Low Loss Cable Using LMR-600-UF Coax with HeatShrink 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 N Male Low Loss Cable Using LMR-600-UF Coax with HeatShrink PE3W12911/HS

URL: https://www.pasternack.com/n-female-bulkhead-to-n-male-low-loss-cable-using-lmr-600-uf-with-heatshrink-pe3w12911-hs-p.aspx

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PE3W12911/HS CAD Drawing

N Female Bulkhead to N Male Low Loss Cable Using LMR-600-UF Coax with HeatShrink

.87
[22]

.300
[7.62]
MAX PANEL

3/4 HEX

N FEMALE
BULKHEAD MOUNT
CONNECTOR

LENGTH
SEE NOTE 3

LMR-600-UF
COAX CABLE

WWW.PASTERNACK.COM
PEXXXXXXX-XX

LABEL
SEE NOTE 1

2 HEAT SHRINK

N MALE
CONNECTOR

⌀.630
[16]
MIN

.535
[13.59]
MIN

RECOMMENDED
MOUNTING HOLE

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

REVISION

ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	A	INITIAL RELEASE	11/06/2024	KGLEBOVA	AGANWANI

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
.X = ±.2 [5]
.XX = ±.02 [0.5]   FRACTIONS: ± 1/32
.XXX = ±.005 [0.13]   ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

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

PASTERNACK®
an INFINITE brand

Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION
N MALE TO N FEMALE BULKHEAD CABLE USING LMR-600-UF
COAX WITH HEATSHRINK

SIZE A	CAGE CODE 53919	DRAWN BY KGLEBOVA	ITEM NO. PE3W12911/HS	REV A

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
SCALE NONE
SHEET 1 OF 1

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