N Male to N Male Low Loss Cable Using LMR-600-DB Coax with HeatShrink, LF Solder

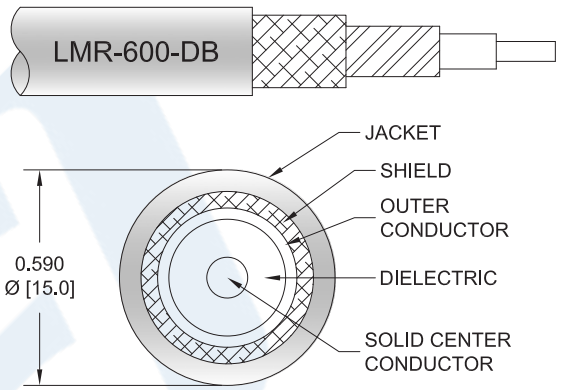
TECHNICAL DATA SHEET **PE3C1548LF/HS**

Configuration

- Connector 1: N Male
- Connector 2: N Male
- Cable Type: LMR-600-DB
- Coax Flex Type: Flexible

Features

- Max Frequency 5.8 GHz
- Shielding Effectivity > 90 dB
- 87% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C1548LF/HS type N male to type N male cable using LMR-600-DB 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 male gender configuration with 50 ohm flexible LMR-600-DB coax. The PE3C1548LF/HS type N male to type N male cable assembly operates to 5.8 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 N Male Low Loss Cable Using LMR-600-DB Coax with HeatShrink, LF Solder PE3C1548LF/HS

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
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		0.53 [1.74]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		1.2 [3.94]		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	250	500	1000	2500	5800	MHz	
PE3C1548LF/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.01	0.02	0.03	0.04	0.07	dB/ft	
			0.04	0.06	0.09	0.15	0.24	dB/m	
PE3C1548LF/HS-12	12 inch	Insertion Loss (Typ.)	0.22	0.22	0.23	0.25	0.28	dB	0.434
PE3C1548LF/HS-36	36 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.34	0.42	dB	0.707
PE3C1548LF/HS-48	48 inch	Insertion Loss (Typ.)	0.25	0.27	0.31	0.38	0.5	dB	0.843
PE3C1548LF/HS-180	180 inch	Insertion Loss (Typ.)	0.38	0.46	0.59	0.86	1.3	dB	2.34
PE3C1548LF/HS-240	240 inch	Insertion Loss (Typ.)	0.44	0.54	0.72	1.08	1.66	dB	3.02

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:	0.434	pounds
Additional Weight per Inch:	0.01134	pounds

Mechanical Specifications

Cable Assembly

Weight	0.434 lbs [196.86 g]

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Cable

Cable Type	LMR-600-DB
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	0.59 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	2.75 lbs-ft [3.73 N-m]
Flat Plate Crush	60 lbs/in [1.07 Kg/mm]
Tensile Strength	350 lbs [158.76 Kg]

Connectors

Description	Connector 1	Connector 2
Type	N Male Threaded	N Male Threaded
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, 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	Brass, Tri-Metal

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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TECHNICAL DATA SHEET PE3C1548LF/HS

How to Order

Part Number Configuration: **PE3C1548LF/HS - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- PE3C1548LF/HS — Base Number

Example: PE3C1548LF/HS-12 = 12 inches long cable
PE3C1548LF/HS-100cm = 100 cm long cable

N Male to N Male Low Loss Cable Using LMR-600-DB Coax with HeatShrink, LF Solder 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 N Male Low Loss Cable Using LMR-600-DB Coax with HeatShrink, LF Solder PE3C1548LF/HS

URL: https://www.pasternack.com/n-male-to-n-male-low-loss-cable-using-lmr-600-db-with-heatshrink-lf-solder-pe3c1548lf-hs-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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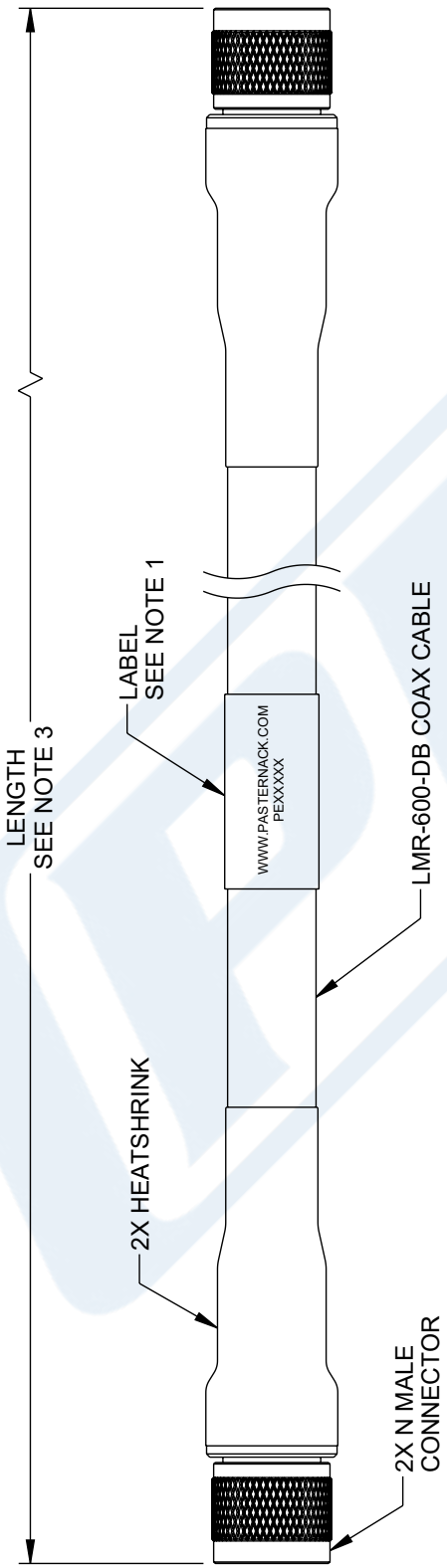
PE3C1548LF/HS CAD Drawing

N Male to N Male Low Loss Cable Using LMR-600-DB Coax with HeatShrink, LF Solder



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	10/03/2023	DMAY	AGANWANI

REVISION

NOTES:

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

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

TOLERANCES:

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

CABLE LENGTH TOLERANCES:

≤12 [305] ≤ 60 [1524] ≤ 120 [3048] ≤ 300 [7620] = +1 [25] / -0
>12 [305] ≤ 60 [1524] ≤ 120 [3048] ≤ 300 [7620] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] ≤ 300 [7620] = +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

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE | SHEET: 1 OF 1

DESCRIPTION: N MALE TO N MALE LOW LOSS CABLE USING LMR-600-DB COAX WITH HEATSHRINK, LF SOLDER

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	DMAY	PE3C1548LF/HS	A

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PE DS Rev-D4 A size

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