



BNC Male to BNC Male Low Loss Cable Using LMR-240-DB Coax with Times Microwave Components with HeatShrink

TECHNICAL DATA SHEET

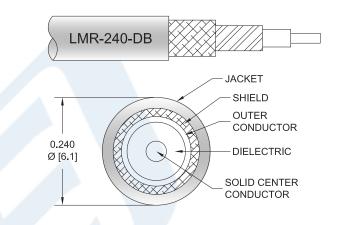
PE3W01878/HS

Configuration

Connector 1: BNC Male
Connector 2: BNC Male
Cable Type: LMR-240-DB
Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- Shielding Effectivity > 90 dB
- · 84% Phase Velocity
- · Double Shielded
- PE Jacket



Applications

General Purpose

Laboratory Use

Description

Pasternack's PE3W01878/HS BNC male to BNC male cable using LMR-240-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 BNC to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-240-DB coax. The PE3W01878/HS BNC male to BNC male cable assembly operates to 4 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: BNC Male to BNC Male Low Loss Cable Using LMR-240-DB Coax with Times Microwave Components with HeatShrink PE3W01878/HS

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451





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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			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		3.2 [10.5]		Ω/1000ft [Ω/Km]
DC Resistance Outer Conductor		3.89 [12.76]		Ω/1000ft [Ω/Km]
Jacket Spark			5,000	Vrms

Specifications by Frequency

Part Number	Part Number Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
Part Number Length	Frequency	100	250	500	1000	4000	MHz	weight (bs)	
PE3W01878/HS	Custom Lengths	Insertion Loss (Typ.)	0.02	0.04	0.06	0.08	0.16	dB/ft	
FL3W018/8/113	Available	ilisei tioli Loss (Typ.)	0.07	0.14	0.2	0.27	0.53	dB/m	
PE3W01878/HS-12	12 inch	Insertion Loss (Typ.)	0.09	0.14	0.21	0.28	0.56	dB	0.098
PE3W01878/HS-24	24 inch	Insertion Loss (Typ.)	0.11	0.18	0.27	0.36	0.72	dB	0.133
PE3W01878/HS-36	36 inch	Insertion Loss (Typ.)	0.13	0.22	0.33	0.44	0.88	dB	0.167
PE3W01878/HS-48	48 inch	Insertion Loss (Typ.)	0.15	0.26	0.39	0.52	1.04	dB	0.201
PE3W01878/HS-60	60 inch	Insertion Loss (Typ.)	0.17	0.3	0.45	0.6	1.2	dB	0.235

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*SQRT(FGHz) dB
Loss due to Connector 2: 0.1*SQRT(FGHz) dB
Base Weight: 0.098 pounds
Additional Weight per Inch: 0.00284 pounds

Mechanical Specifications

Cable Assembly

Weight 0.098 lbs [44.45 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-240-DB

50 Ohms

Solid

Copper

PE(F)

Aluminum Tape

Tinned Copper Braid

PE, Black

0.24 in [6.1 mm]

0.75 in [19.05 mm] 2.5 in [63.5 mm]

0.25 lbs-ft [0.34 N-m]

20 lbs/in [0.36 Kg/mm] 80 lbs [36.29 Kg]

Connectors

	Connector 2		
BNC Male Bayonet	BNC Male Bayonet		
MIL-STD-348	MIL-STD-348		
50 Ohms	50 Ohms		
Brass, Gold	Brass, Gold		
PTFE	PTFE		
Brass, Nickel	Brass, Nickel		
Brass, Nickel	Brass, Nickel		
	MIL-STD-348 50 Ohms Brass, Gold PTFE Brass, Nickel		

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

Part Number Configuration:

PE3W01878/HS - xx uu

Unit of Measure:
cm = Centimeters

Length
Base Number

Example: PE3W01878/HS-12 = 12 inches long cable PE3W01878/HS-100cm = 100 cm long cable

BNC Male to BNC Male Low Loss Cable Using LMR-240-DB Coax with Times Microwave Components 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.

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URL: https://www.pasternack.com/bnc-male-to-bnc-male-low-loss-cable-using-lmr-240-db-with-heatshrink-pe3w01878-hs-p. aspx

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PE3W01878/HS CAD Drawing BNC Male to BNC Male Low Loss Cable Using LMR-240-DB Coax with Times Microwave Components with HeatShrink ш ⋖ INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 DESCRPTION BNC MALE TO BNC MALE LOW LOSS CABLE USING LMR-240-DB COAX WITH TIMES MICROWAVE COMPONENTS WITH HEATSHRINK APPROVED BY AGANWANI 1 P SHEET PE3W01878/HS \bigoplus CHANGED BY **BPUCHASKI** NONE SCALE 10/09/2023 PASTERNACK Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 DATE REVISION an INFINIT® brand **BPUCHASKI INITIAL RELEASE** DESCRIPTION DRAWN BY CAGE CODE 53919 SIZE REV. ⋖ ⋖ SEE NOTE 1 ZONE 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 ± 1/32 ANGLES ± 1° <12 [305] < 10 [305] < 10 [304] = +1 [25] / -0</p> >12 [305] < 60 [1524] = +2 [51] / -0</p> >60 [1524] < 20 [3048] = +4 [102] / -0</p> >120 [3048] < 300 [7620] = +6 [52] / -0</p> >300 [7620] = +5% / -0 FRACTIONS UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHE DIMENSIONS IN [] ARE MILLIMETER CABLE LENGTH TOLERANCES: LABEL က LMR-240-DB CABLE FOLERANCES: $X = \pm .2 [5]$ $XX = \pm .02 [0.5]$ $XX = \pm .005 [0.13]$ WWW.PASTERNACK.COM PEXXXXXX SEE NOTE 3 LENGTH 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. THESE COMMODITES, TECHNOLOGY OR WHOLE WITHOUT THE WRITTEN PROMITE STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO US. LAW PROHIBITED. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY. OR LESS, ONE LABEL APPROXIMATELY CENTERED. 2X HEATSHRINK 6 INCHES FROM EACH CONNECTOR. 2X BNC MALE CONNECTOR 2 DESCRIPTION 9 NOTES: PE DS Rev-D4 Asize S 65 O PE3W01878/HS REV 1.0 മ ⋖ ш Ш 5 © 2020 Pasternack Enterprises All Rights Reserved