

10-32 Male to BNC Female Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink



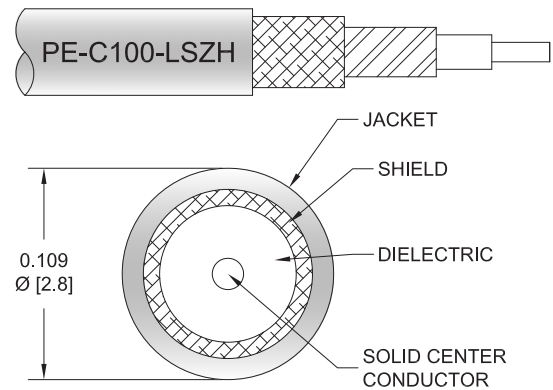
PE3C3188/HS

Configuration

- Connector 1: 10-32 Male
- Connector 2: BNC Female
- Cable Type: PE-C100-LSZH
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- LSZH Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C3188/HS 10-32 male to BNC female cable using PE-C100-LSZH 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 10-32 to BNC cable assembly has a male to female gender configuration with 50 ohm flexible PE-C100-LSZH coax. The PE3C3188/HS 10-32 male to BNC female cable assembly operates to 1 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
RF Shielding	90			dB
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			335	Vrms
Jacket Spark			2,000	Vrms

Specifications by Frequency

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PE3C3188/HS

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	50	100	250	500	1000	MHz	
PE3C3188/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.051	0.07	0.115	0.167	0.24	dB/ft	
			0.17	0.23	0.38	0.55	0.79	dB/m	
PE3C3188/HS-12	12 In	Insertion Loss (Typ.)	0.26	0.27	0.32	0.37	0.44	dB	0.046
PE3C3188/HS-24	24 In	Insertion Loss (Typ.)	0.31	0.34	0.43	0.54	0.68	dB	0.057
PE3C3188/HS-36	36 In	Insertion Loss (Typ.)	0.36	0.41	0.55	0.71	0.92	dB	0.067
PE3C3188/HS-48	48 In	Insertion Loss (Typ.)	0.41	0.48	0.66	0.87	1.16	dB	0.077
PE3C3188/HS-60	60 In	Insertion Loss (Typ.)	0.46	0.55	0.78	1.04	1.4	dB	0.087

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:	0.046 pounds
Additional Weight per Inch:	0.00084 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.05 lbs [22.68 g]

Cable

Cable Type	PE-C100-LSZH
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Steel
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	LSZH, Black
Jacket Diameter	0.109 in [2.77 mm]
One Time Minimum Bend Radius	0.25 in [6.35 mm]
Repeated Minimum Bend Radius	1 in [25.4 mm]
Bending Moment	0.1 lbs-ft [0.14 N-m]
Flat Plate Crush	10 lbs/in [0.18 Kg/mm]
Tensile Strength	15 lbs [6.8 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	10-32 Male	BNC Female
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100 µin minimum	
Hex Size	1/4 inch	

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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PE3C3188/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3C3188/HS

- xx

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

Length

Base Number

Example: PE3C3188/HS-12 = 12 inches long cable
PE3C3188/HS-100cm = 100 cm long cable

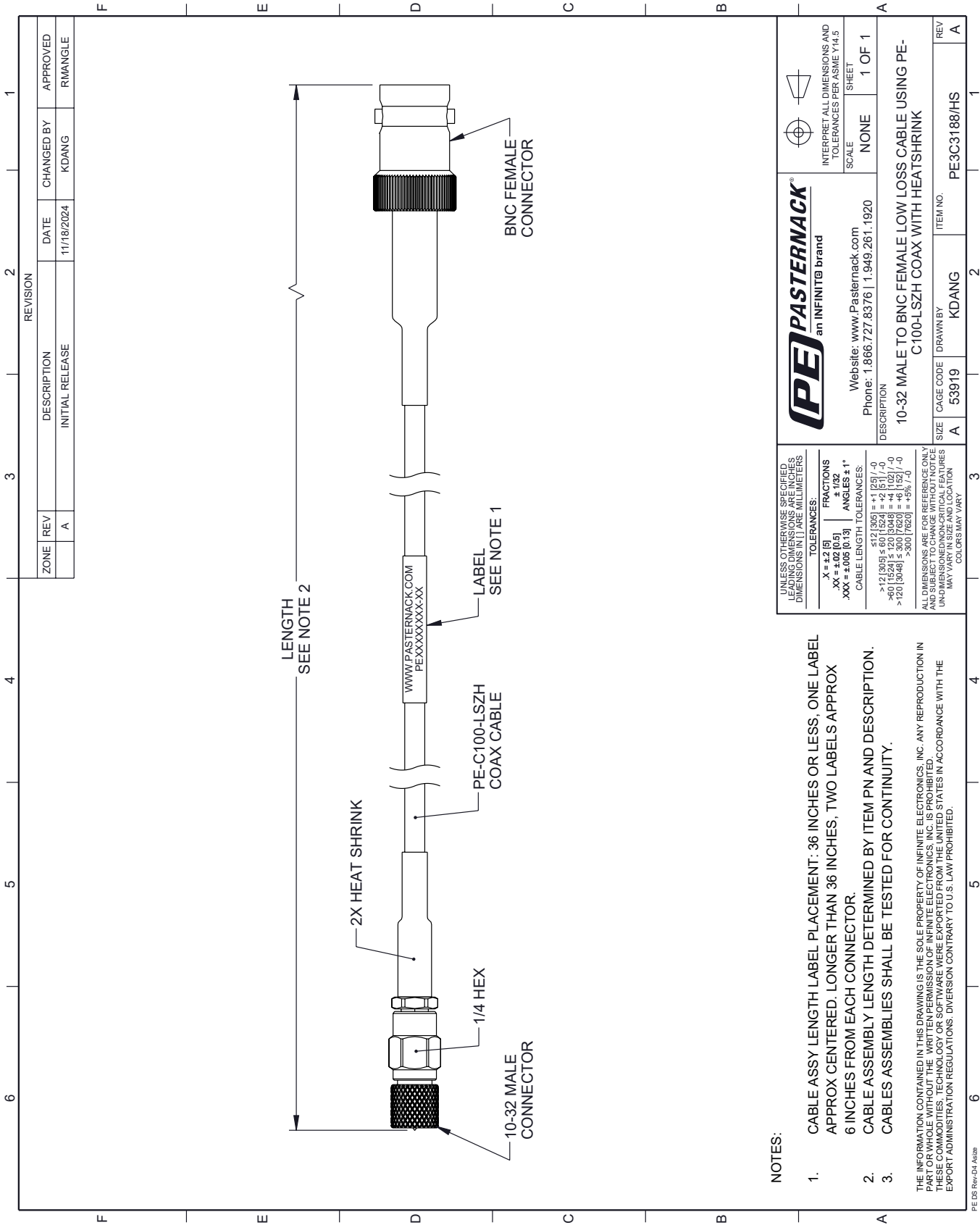
10-32 Male to BNC Female Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10-32 Male to BNC Female Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink PE3C3188/HS](https://www.pasternack.com/10-32-male-to-bnc-female-low-loss-cable-using-pe-c100-lszh-with-heatshrink-pe3c3188-hs-p.aspx)

URL: <https://www.pasternack.com/10-32-male-to-bnc-female-low-loss-cable-using-pe-c100-lszh-with-heatshrink-pe3c3188-hs-p.aspx>

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PE3C3188/HS CAD Drawing
10-32 Male to BNC Female Low Loss Cable Using PE-C100-LSZH Coax with HeatShrink



UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, TRAILING DIMENSIONS IN [] ARE MILLIMETERS		PE PASTERNAK an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
TOLERANCES:		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SCALE NONE	
.X = ±.2 [5]		FRACTIONS ± 1/32		SHEET 1 OF 1	
.XX = ±.02 [0.5]		ANGLES ± 1°			
.XXX = ±.005 [0.13]		CABLE LENGTH TOLERANCES:			
		<12 [305] ±.12 [3.05]			
		>12 [305] ±.60 [15.24]			
		>40 [1024] ±.120 [3.048]			
		>120 [3048] ±.240 [6.096]			
		>300 [7620] ±.480 [12.192]			
		ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF INDIVIDUAL PARTS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.			
		DESCRIPTION			
		10-32 MALE TO BNC FEMALE LOW LOSS CABLE USING PE-C100-LSZH COAX WITH HEATSHRINK			
		SIZE A			
		CAGE CODE 53919			
		DRAWN BY KDANG			
		ITEM NO. PE3C3188/HS			
		REV A			

- NOTES:
- 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.
 - CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
 - CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
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