

10-32 Male Right Angle to BNC Female Bulkhead Low Loss Cable Using LMR-100 Coax with HeatShrink



PE3W16930/HS

Configuration

- Connector 1: 10-32 Male Right Angle
- Connector 2: BNC Female Bulkhead
- Cable Type: LMR-100A
- Coax Flex Type: Flexible

Features

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



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W16930/HS 10-32 male right angle to BNC 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 10-32 to BNC cable assembly has a male to female gender configuration with 50 ohm flexible LMR-100A coax. The PE3W16930/HS 10-32 male to BNC female cable assembly operates to 1 GHz. The right angle 10-32 interface on the LMR-100A cable allows for easier connections in tight spaces. Our RF cable assembly with BNC 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		1	GHz
VSWR			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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		9.5 [31.17]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			2,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W16930/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.039	0.064	0.115	0.165	0.24	dB/ft	
			0.13	0.21	0.38	0.55	0.79	dB/m	
PE3W16930/HS-24	24 In	Insertion Loss (Typ.)	0.38	0.43	0.53	0.63	0.78	dB	0.072
PE3W16930/HS-36	36 In	Insertion Loss (Typ.)	0.42	0.5	0.65	0.8	1.02	dB	0.081
PE3W16930/HS-48	48 In	Insertion Loss (Typ.)	0.46	0.56	0.76	0.96	1.26	dB	0.09
PE3W16930/HS-100CM	100 CM	Insertion Loss (Typ.)	0.43	0.51	0.68	0.85	1.09	dB	0.084
PE3W16930/HS-200CM	200 CM	Insertion Loss (Typ.)	0.56	0.72	1.06	1.39	1.88	dB	0.114

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: 0.2 dB
- Loss due to Connector 2: 0.1 dB
- Base Weight: 0.063 pounds
- Additional Weight per Inch: 0.00075 pounds

Mechanical Specifications

Cable Assembly

- Width/Diameter 0.5 in [12.7 mm]
- Weight 0.054 lbs [24.49 g]

Cable

- Cable Type LMR-100A
- 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 PVC, Black
- Jacket Diameter 0.11 in [2.79 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 Right Angle	BNC Female Bulkhead
Specification	MIL-C-39012	
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold over Nickel	Brass, Gold
Contact Plating Specification	MIL-G-45204	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	QQ-N-290	

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

10-32 Male Right Angle to BNC Female Bulkhead Low Loss Cable Using LMR-100 Coax with HeatShrink



PE3W16930/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W16930/HS - xx uu



Example: PE3W16930/HS-12 = 12 inches long cable
PE3W16930/HS-100cm = 100 cm long cable

10-32 Male Right Angle to BNC Female Bulkhead Low Loss Cable Using LMR-100 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.

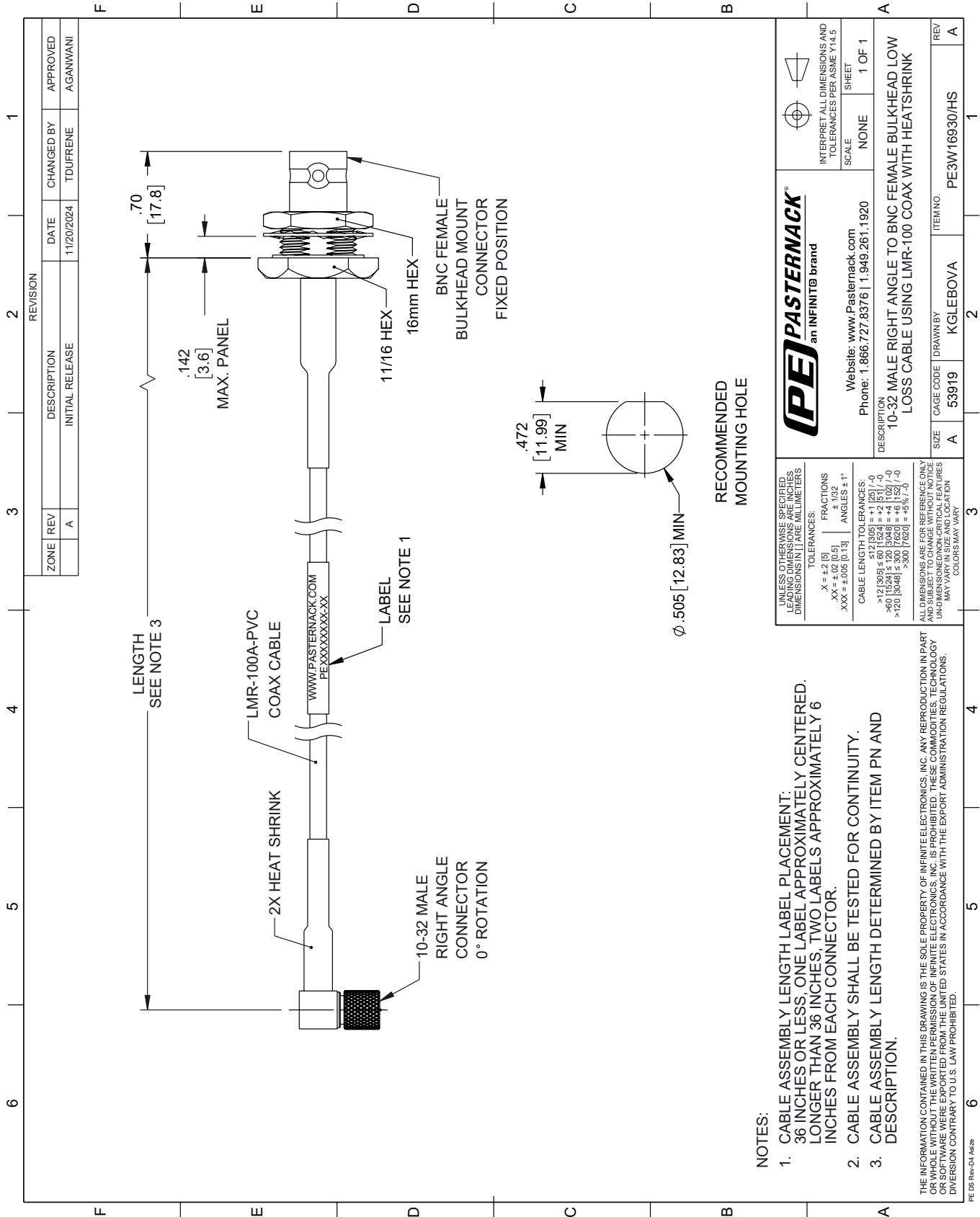
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [10-32 Male Right Angle to BNC Female Bulkhead Low Loss Cable Using LMR-100 Coax with HeatShrink PE3W16930/HS](#)

URL: <https://www.pasternack.com/10-32-male-right-angle-to-bnc-female-bulkhead-low-loss-cable-using-lmr-100-with-heatshrink-pe3w16930-hs-p.aspx>

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PE3W16930/HS CAD Drawing

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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 ASSEMBLY SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.

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PE DS Rev-04 Add2

REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
A	A			AGANWANI

PASTERNAK an INFINITIB brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.		TOLERANCES: X = +.2 [5] ±.132 .XX = ±.02 [0.51] ±.132 .XXX = ±.005 [0.13] ANGLES ± 1°	
CABLE LENGTH TOLERANCES: >12 [305] ≤ 60 [1524] = +.1 [25] / -0 >60 [1524] ≤ 120 [3048] = +.4 [102] / -0 >120 [3048] ≤ 300 [7620] = +.6 [152] / -0		ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS. COLORS MAY VARY.	
DESCRIPTION	SIZE	CAGE CODE	ITEM NO.
10-32 MALE RIGHT ANGLE TO BNC FEMALE BULKHEAD LOW LOSS CABLE USING LMR-100 COAX WITH HEATSHRINK	A	53919	PE3W16930/HS
REV	REV	REV	REV
A	A	A	A