

BNC Male Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-100A-UF Coax



PE3W14562

Configuration

- Connector 1: BNC Male Right Angle
- Connector 2: BNC Male Right Angle
- Cable Type: LMR-100A-UF
- Coax Flex Type: Flexible

Features

- Max Frequency 2 GHz
- Shielding Effectivity > 90 dB
- 66% Phase Velocity
- Double Shielded
- TPE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W14562 BNC male right angle to BNC male right angle cable using LMR-100A-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 BNC to BNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-100A-UF coax. The PE3W14562 BNC male to BNC male cable assembly operates to 2 GHz. The right angle BNC interfaces on the LMR-100A-UF cable allow for easier connections in tight spaces. 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		2	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	
PE3W14562	Custom Lengths Available	Insertion Loss (Typ.)	0.051	0.07	0.158	0.165	0.352	dB/ft	
			0.17	0.23	0.52	0.55	1.16	dB/m	
PE3W14562-24	24 In	Insertion Loss (Typ.)	0.51	0.54	0.72	0.73	1.11	dB	0.121
PE3W14562-36	36 In	Insertion Loss (Typ.)	0.56	0.61	0.88	0.9	1.46	dB	0.129
PE3W14562-48	48 In	Insertion Loss (Typ.)	0.61	0.68	1.04	1.06	1.81	dB	0.137
PE3W14562-100CM	100 CM	Insertion Loss (Typ.)	0.57	0.63	0.92	0.95	1.56	dB	0.131
PE3W14562-200CM	200 CM	Insertion Loss (Typ.)	0.74	0.86	1.44	1.49	2.71	dB	0.157

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:	0.2 dB
Base Weight:	0.112 pounds
Additional Weight per Inch:	0.00067 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.112 lbs [50.8 g]

Cable

Cable Type	LMR-100A-UF
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper
Jacket Material	TPE, 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	BNC Male Right Angle	BNC Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
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	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum

Environmental Specifications

Operating Range Temperature -40 to +85 deg C

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

Plotted and Other Data

Notes:

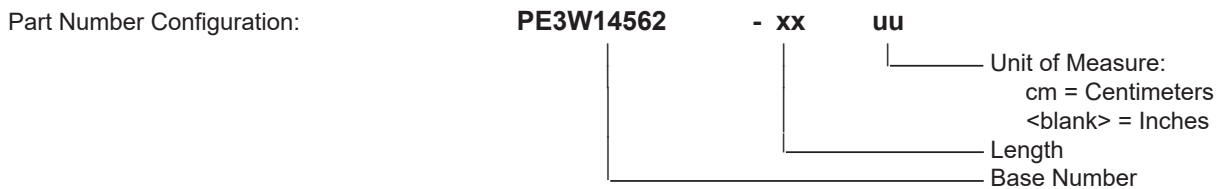
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Typical Performance Data

How to Order



Example: PE3W14562-12 = 12 inches long cable
PE3W14562-100cm = 100 cm long cable

BNC Male Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-100A-UF Coax 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.

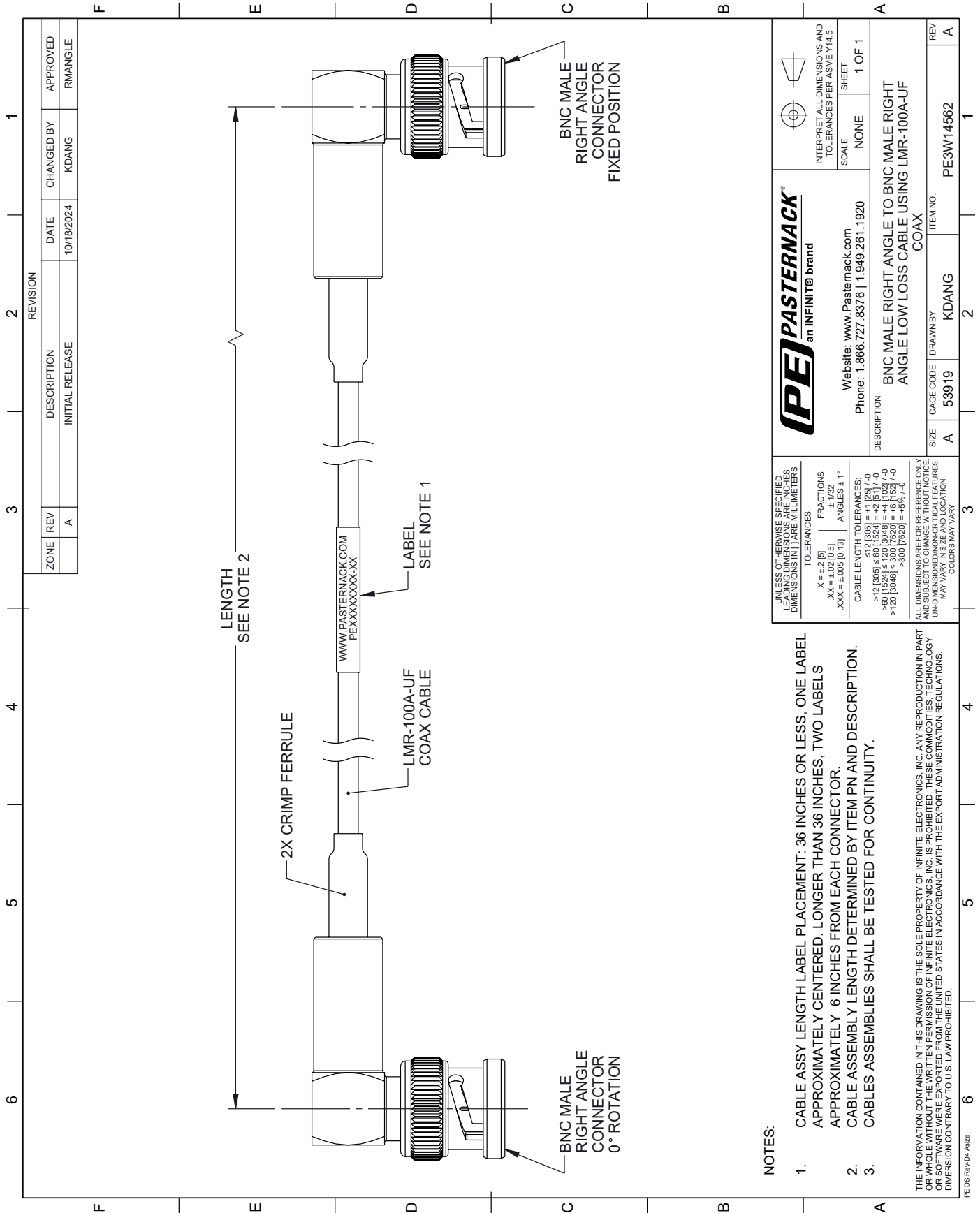
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Right Angle to BNC Male Right Angle Low Loss Cable Using LMR-100A-UF Coax PE3W14562](#)

URL: <https://www.pasternack.com/bnc-male-right-angle-to-bnc-male-low-loss-cable-using-lmr-100a-uf-pe3w14562-p.aspx>

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PE3W14562 CAD Drawing

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NOTES:

1. CABLE ASSY 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 LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.
3. CABLES ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN PAREMILLIMETERS	
TOLERANCES:	FRACTIONS
.X = ±.02 [0.5]	± 1/32
.XX = ±.02 [0.5]	± 1/32
.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] ≤ 360 [9144] = +6 [152] / -0	
>360 [9144] = +5% [1.9]	
ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED. UNUSUAL DIMENSIONS OR CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.	

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Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION BNC MALE RIGHT ANGLE TO BNC MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-100A-UF COAX
SIZE A	CAGE CODE 53919	DRAWN BY KDANG
ITEM NO. PE3W14562	REV A	1