

N Male to 4.3-10 Male Low Loss Cable Using LMR-LW600 Coax with HeatShrink



PE3W17710/HS

Configuration

- Connector 1: N Male
- Connector 2: 4.3-10 Male
- Cable Type: LMR-LW600
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 85% Phase Velocity
- Double Shielded
- PE Jacket

Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W17710/HS type N male to 4.3-10 male cable using LMR-LW600 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 4.3-10 cable assembly has a male to male gender configuration with 50 ohm flexible LMR-LW600 coax. The PE3W17710/HS type N male to 4.3-10 male cable assembly operates to 6 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		85		%
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]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.4 [14.44]		Ohms/1000ft [Ohms/Km]
Jacket Spark			8,000	Vrms

Specifications by Frequency

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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W17710/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.012	0.018	0.026	0.044	0.074	dB/ft	
			0.04	0.06	0.09	0.15	0.25	dB/m	
PE3W17710/HS-24	24 inch	Insertion Loss (Typ.)	0.23	0.24	0.26	0.29	0.35	dB	0.587
PE3W17710/HS-36	36 inch	Insertion Loss (Typ.)	0.24	0.26	0.28	0.34	0.43	dB	0.691
PE3W17710/HS-48	48 inch	Insertion Loss (Typ.)	0.25	0.28	0.31	0.38	0.5	dB	0.795
PE3W17710/HS-120	120 inch	Insertion Loss (Typ.)	0.32	0.38	0.46	0.64	0.94	dB	1.419
PE3W17710/HS-180	180 inch	Insertion Loss (Typ.)	0.38	0.47	0.59	0.86	1.31	dB	1.939

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: 0.283 pounds
 Additional Weight per Inch: 0.00867 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.179 lbs [81.19 g]

Cable

Cable Type LMR-LW600
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper
 Dielectric Type Foam PE
 Number of Shields 2
 Shield Layer 1 Aluminum Tape
 Shield Layer 2 Aluminum
 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 260 lbs [117.93 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	N Male	4.3-10 Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Silver
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

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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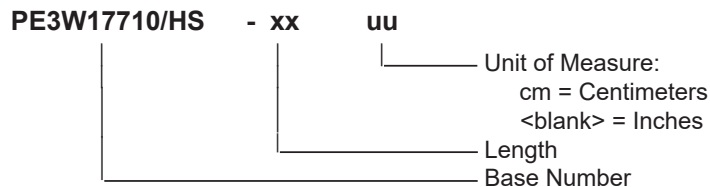


PE3W17710/HS

Typical Performance Data

How to Order

Part Number Configuration:



Example: PE3W17710/HS-12 = 12 inches long cable
 PE3W17710/HS-100cm = 100 cm long cable

N Male to 4.3-10 Male Low Loss Cable Using LMR-LW600 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.

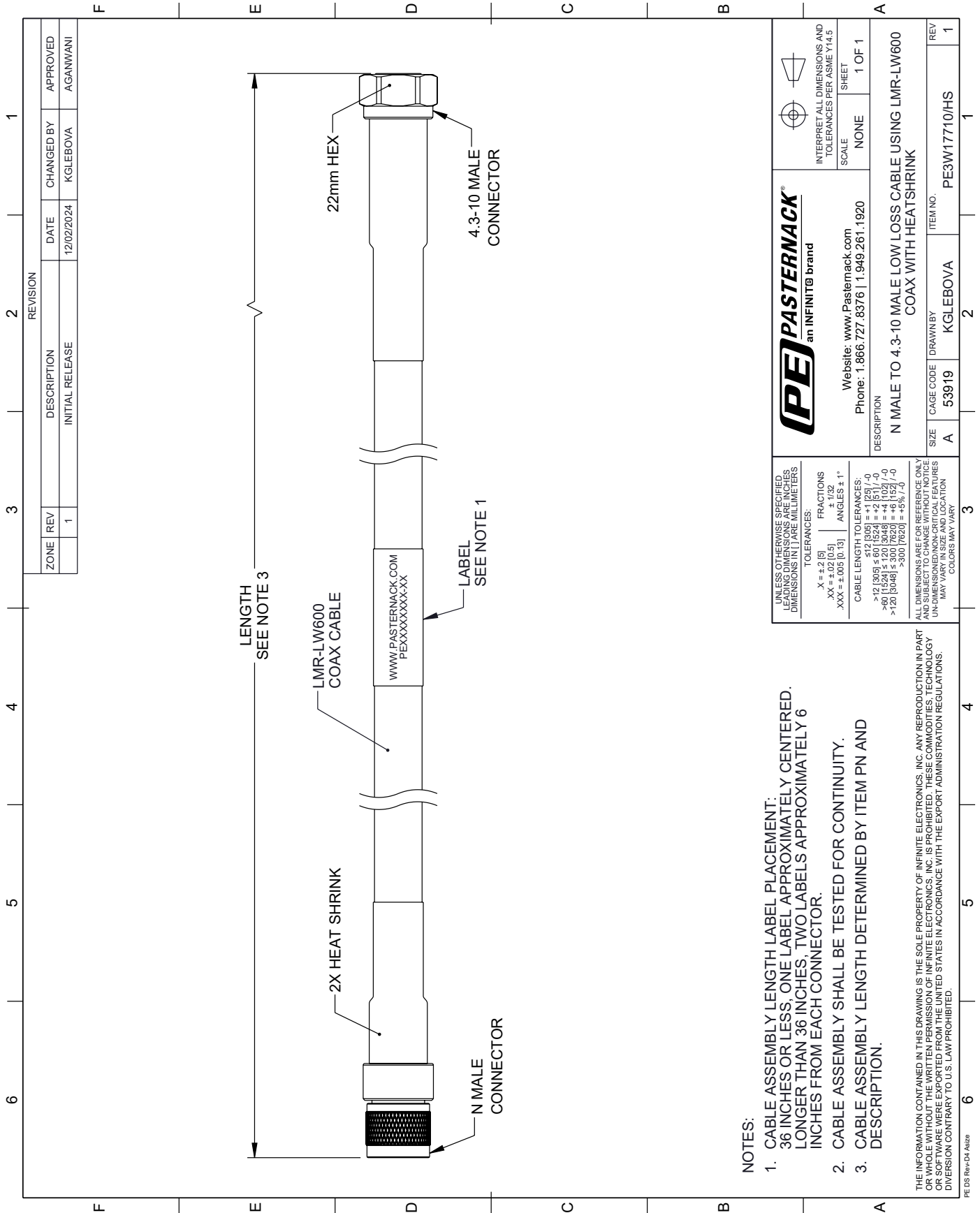
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male to 4.3-10 Male Low Loss Cable Using LMR-LW600 Coax with HeatShrink PE3W17710/HS](#)

URL: <https://www.pasternack.com/n-male-to-4.3-10-male-low-loss-cable-using-lmr-lw600-with-heatshrink-pe3w17710-hs-p.aspx>

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PE3W17710/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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 PASTERNAK an INFINITTE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		
DESCRIPTION: N MALE TO 4.3-10 MALE LOW LOSS CABLE USING LMR-LW600 COAX WITH HEATSHRINK		
SIZE: A	CAGE CODE: 53919	ITEM NO.: PE3W17710/HS
DRAWN BY: KGLEBOVA		REV: 1

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN PAREMILLIMETERS

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ±.1/32 ANGLES ± 1°
 .XX = ±.02 [0.5] .XXX = ±.005 [0.13]
 CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = +1 [25] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +5 [127] / -0
 >300 [7620] = +5 [127] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS OTHERWISE SPECIFIED. DIMENSIONS ON CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.