

SMA Male Right Angle to TNC Male Low Loss Cable Using LMR-200 Coax with HeatShrink



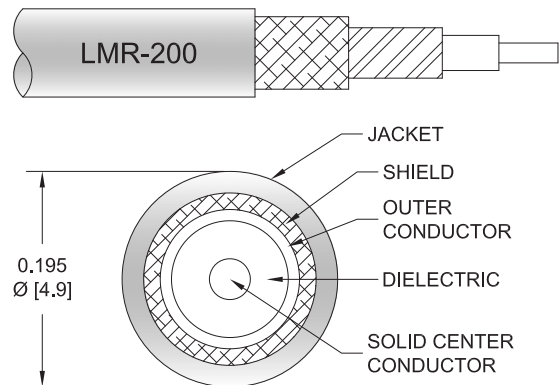
PE3W00023/HS

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: TNC Male
- Cable Type: LMR-200
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 83% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3W00023/HS SMA male right angle to TNC male cable using LMR-200 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 SMA to TNC cable assembly has a male to male gender configuration with 50 ohm flexible LMR-200 coax. The PE3W00023/HS SMA male to TNC male cable assembly operates to 6 GHz. The right angle SMA interface on the LMR-200 cable allows 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		6	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
RF Shielding	90			dB
Group Delay		1.22 [4]		ns/ft [ns/m]
Capacitance		24.5 [80.38]		pF/ft [pF/m]
Inductance		0.061 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		5.36 [17.59]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3W00023/HS	Custom Lengths Available	Insertion Loss (Typ.)	0.051	0.073	0.104	0.169	0.264	dB/ft	
			0.17	0.24	0.35	0.56	0.87	dB/m	
PE3W00023/HS-24	24 inch	Insertion Loss (Typ.)	0.41	0.45	0.51	0.64	0.83	dB	0.098
PE3W00023/HS-36	36 inch	Insertion Loss (Typ.)	0.46	0.52	0.62	0.81	1.1	dB	0.122
PE3W00023/HS-48	48 inch	Insertion Loss (Typ.)	0.51	0.6	0.72	0.98	1.36	dB	0.146
PE3W00023/HS-60	60 inch	Insertion Loss (Typ.)	0.56	0.67	0.82	1.15	1.62	dB	0.17
PE3W00023/HS-72	72 inch	Insertion Loss (Typ.)	0.61	0.74	0.93	1.32	1.89	dB	0.194

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:	0.074 pounds
Additional Weight per Inch:	0.002 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.5 in [12.7 mm]
Weight	0.072 lbs [32.66 g]

Cable

Cable Type	LMR-200
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Aluminum Tape
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.195 in [4.95 mm]
One Time Minimum Bend Radius	0.5 in [12.7 mm]
Repeated Minimum Bend Radius	2 in [50.8 mm]
Bending Moment	0.2 lbs-ft [0.27 N-m]
Flat Plate Crush	15 lbs/in [0.27 Kg/mm]
Tensile Strength	40 lbs [18.14 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	TNC Male
Specification		MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification		30µ in. minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Gold	Brass, Nickel
Body Plating Specification		100µ in. minimum
Coupling Nut Material and Plating	Brass, Gold	

Environmental Specifications

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

Plotted and Other Data

Notes:

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PE3W00023/HS

Typical Performance Data

How to Order

Part Number Configuration:

PE3W00023/HS - xx uu



Example: PE3W00023/HS-12 = 12 inches long cable
PE3W00023/HS-100cm = 100 cm long cable

SMA Male Right Angle to TNC Male Low Loss Cable Using LMR-200 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.

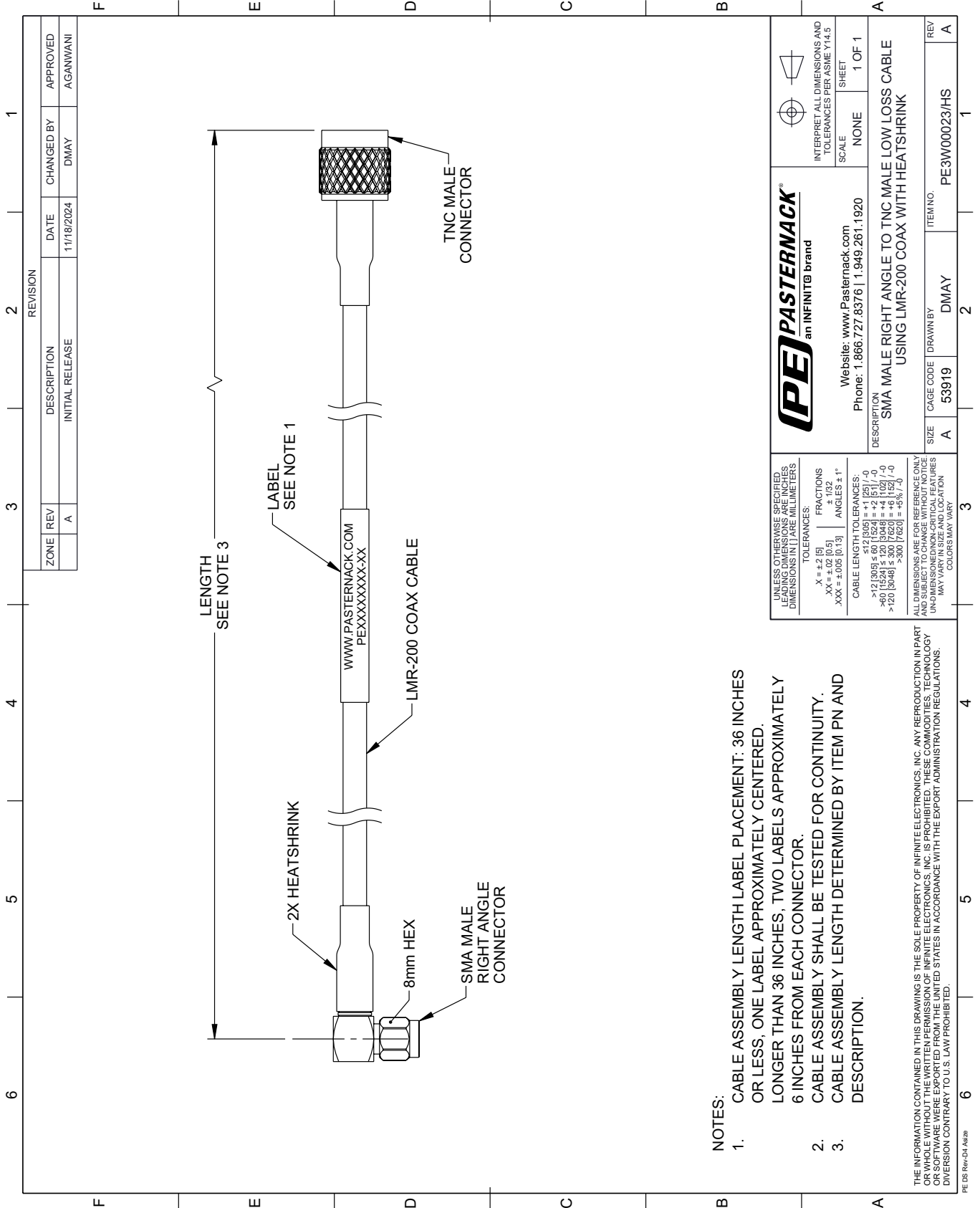
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle to TNC Male Low Loss Cable Using LMR-200 Coax with HeatShrink PE3W00023/HS](https://www.pasternack.com/sma-male-right-angle-to-tnc-male-low-loss-cable-using-lmr-200-with-heatshrink-pe3w00023-hs)

URL: <https://www.pasternack.com/sma-male-right-angle-to-tnc-male-low-loss-cable-using-lmr-200-with-heatshrink-pe3w00023-hs-p.aspx>

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PE3W00023/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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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:

.X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:

>12 [305] ≤ 60 [1524] = +.2 [5] / -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 MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
		SCALE	NONE
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SHEET	1 OF 1
DESCRIPTION SMA MALE RIGHT ANGLE TO TNC MALE LOW LOSS CABLE USING LMR-200 COAX WITH HEATSHRINK			
SIZE	A	CAGE CODE	DMAY
ITEM NO.	PE3W00023/HS		