



SMA Male to N Male Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components

TECHNICAL DATA SHEET

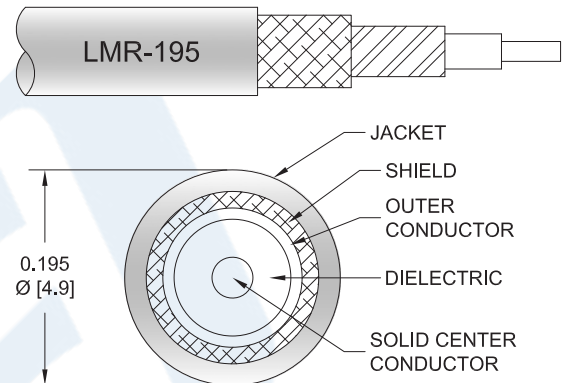
PE3C2860

Configuration

- Connector 1: SMA Male
- Connector 2: N Male Right Angle
- Cable Type: LMR-195
- Coax Flex Type: Flexible

Features

- Max Frequency 6 GHz
- Shielding Effectivity > 90 dB
- 80% Phase Velocity
- Double Shielded
- PE Jacket



Applications

- General Purpose
- Laboratory Use

Description

Pasternack's PE3C2860 SMA male to type N male right angle cable using LMR-195 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 type N cable assembly has a male to male gender configuration with 50 ohm flexible LMR-195 coax. The PE3C2860 SMA male to type N male cable assembly operates to 6 GHz. The right angle type N interface on the LMR-195 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to N Male Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components PE3C2860](#)



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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
RF Shielding	90			dB
Group Delay		1.27 [4.17]		ns/ft [ns/m]
Capacitance		25.4 [83.33]		pF/ft [pF/m]
Inductance		0.064 [0.21]		uH/ft [uH/m]
DC Resistance Inner Conductor		7.6 [24.93]		Ω /1000ft [Ω /Km]
DC Resistance Outer Conductor		4.9 [16.08]		Ω /1000ft [Ω /Km]
Jacket Spark			3,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	250	500	1000	2500	6000	MHz	
PE3C2860	Custom Lengths Available	Insertion Loss (Typ.)	0.06	0.08	0.12	0.19	0.3	dB/ft	
			0.19	0.27	0.39	0.63	0.99	dB/m	
PE3C2860-12	12 inch	Insertion Loss (Typ.)	0.36	0.39	0.42	0.49	0.6	dB	0.134
PE3C2860-24	24 inch	Insertion Loss (Typ.)	0.42	0.47	0.54	0.68	0.9	dB	0.157
PE3C2860-36	36 inch	Insertion Loss (Typ.)	0.48	0.55	0.66	0.87	1.2	dB	0.179
PE3C2860-48	48 inch	Insertion Loss (Typ.)	0.53	0.63	0.77	1.06	1.5	dB	0.201
PE3C2860-60	60 inch	Insertion Loss (Typ.)	0.59	0.71	0.89	1.25	1.8	dB	0.223

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:	0.2 dB
Base Weight:	0.134 pounds
Additional Weight per Inch:	0.00184 pounds

Mechanical Specifications

Cable Assembly

Weight 0.134 lbs [60.78 g]

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Cable

Cable Type	LMR-195
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]

Connectors

Description	Connector 1	Connector 2
Type	SMA Male Threaded	N Male Right Angle Threaded
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	ASTM B488	50µ in. minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal
Body Plating Specification		80µ in. minimum
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal
Coupling Nut Plating Specification		80µ in. minimum
Hex Size	5/16 Inch	30

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

Plotted and Other Data

Notes:

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PE3C2860

How to Order

Part Number Configuration:

PE3C2860

- **xx**

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Unit of Measure:
cm = Centimeters
<blank> = Inches
Length
Base Number

Example: PE3C2860-12 = 12 inches long cable
PE3C2860-100cm = 100 cm long cable

SMA Male to N Male Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components 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.

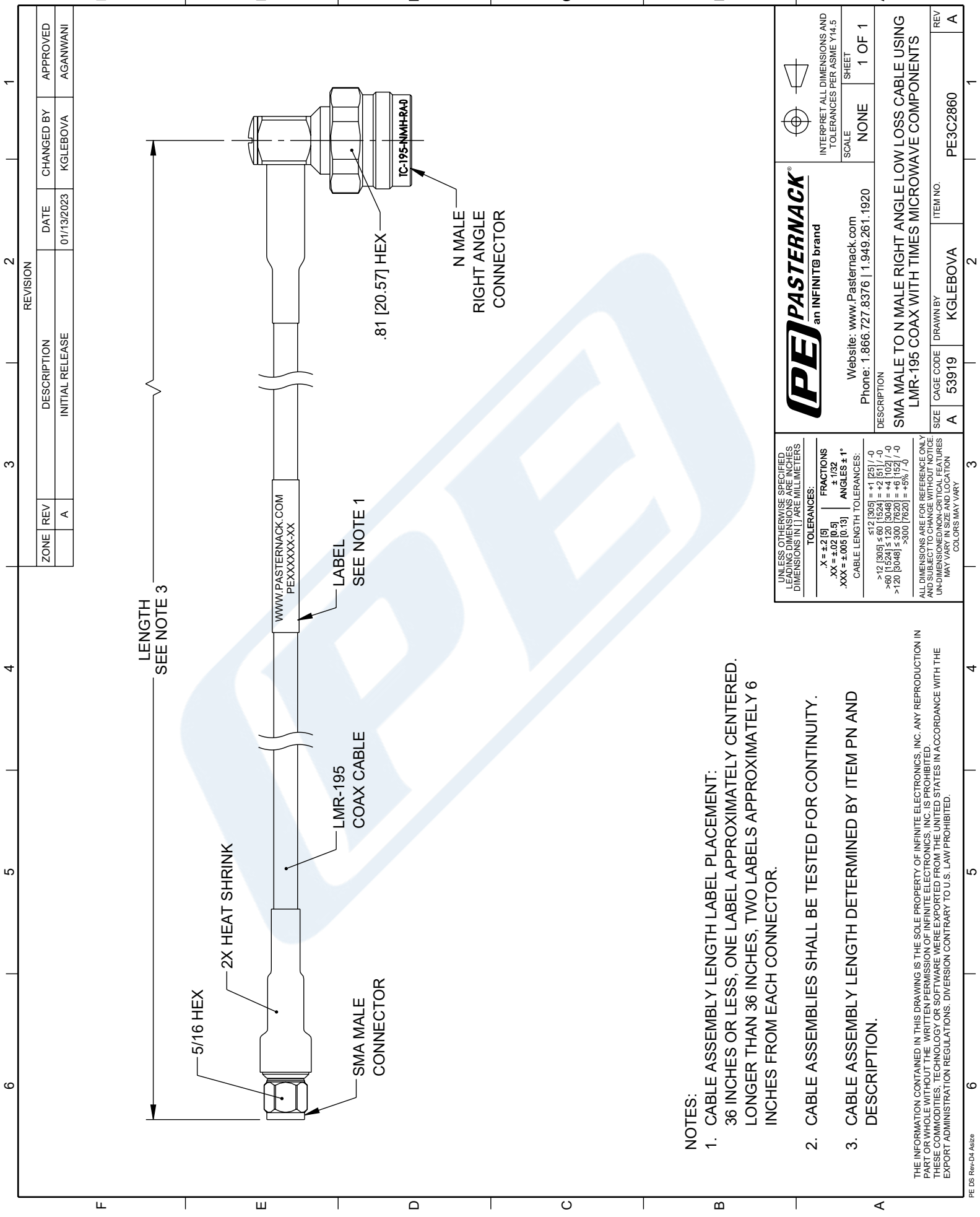
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URL: <https://www.pasternack.com/sma-male-to-n-male-low-loss-cable-using-lmr-195-pe3c2860-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

PE3C2860 CAD Drawing

SMA Male to N Male Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components



REVISION			
ZONE	REV	DESCRIPTION	CHANGED BY
	A	INITIAL RELEASE	KGLEBOVA
			AGANWANI

DATE	APPROVED
01/13/2023	AGANWANI

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
.X = ±.2 [5]	± 1/32
.XX = ±.02 [0.5]	± 1/64
.XXX = ±.005 [0.13]	± 1/128
CABLE LENGTH TOLERANCES:	ANGLES ± 1°
≤12 [305] = ±1 [25] / -0	
>12 [305] ≤ 60 [1524] = ±2 [51] / -0	
>60 [1524] ≤ 120 [3048] = ±4 [102] / -0	
>120 [3048] ≤ 300 [7620] = ±8 [203] / -0	
>300 [7620] = ±.5% / -0	

PE PASTERNAK® an INFINITI® brand	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	
DESCRIPTION	
SMA MALE TO N MALE RIGHT ANGLE LOW LOSS CABLE USING LMR-195 COAX WITH TIMES MICROWAVE COMPONENTS	
SIZE	SCALE
A	NONE
CAGE CODE	SHEET
53919	1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	SCALE	SHEET
	NONE	1 OF 1

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