

## Waterproof IP68 SMA Male (Plug) to N Male (Plug) Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components



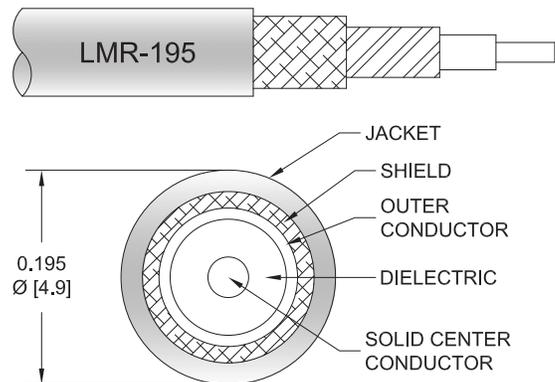
### PE3C2860/WP

#### 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
- Silicone Connector Boot
- IP68 Rated



#### Applications

- General Purpose
- Laboratory Use

#### Description

The Pasternack PE3C2860/WP is a weatherproof low loss cable assembly that comes with SMA male connection with weatherproof boot on one end and type N male with weatherproof boot on the other. Pasternack's RF coaxial cable assembly products are designed for typical use, production, laboratory test and measurement, defense/military, aerial antenna towers, etc. The low loss cable has a 50 Ohm impedance and is specifically ready for quicker shipment than most in the industry can provide.

This weatherproof low loss RF cable assembly operates at a maximum frequency of 6 GHz. Our RF cable assembly has a PE jacket with 0.195 inches diameter. The SMA male to type N male cable assembly PE3C2860/WP is built with LMR-195 coax, which has a flexible design. This RF cable assembly with 0.5 inches diameter has copper as cable's inner conducting material and PE (F) dielectric type. The weatherproof boot low loss cable is reusable and can withstand elements including extreme temperature. Additional dimensions, specifications, and CAD drawings for this PE3C2860/WP low loss RF cable are available on our downloadable PDF datasheet.

Pasternack stocks a wide selection of weatherproof low loss cable assemblies that ship the same business day as ordered from our warehouse. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal SMA male to type N male cable assembly as per your requirements.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.4:1	
Velocity of Propagation		80		%
RF Shielding	90			dB
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]		Ohms/1000ft [Ohms/Km]

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**PE3C2860/WP**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
DC Resistance Outer Conductor		4.9 [16.08]		Ohms/1000ft [Ohms/Km]
Dielectric Withstanding Voltage (DC)			1,000	Vdc
Jacket Spark			3,000	Vrms

**Specifications by Frequency**

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
			Frequency					MHz	
PE3C2860/WP	Custom Lengths Available	Insertion Loss (Typ.)	0.057	0.081	0.116	0.19	0.299	dB/ft	
			0.19	0.27	0.39	0.63	0.99	dB/m	
PE3C2860/WP-12	12 Inch	Insertion Loss (Typ.)	0.36	0.39	0.42	0.49	0.6	dB	0.634
PE3C2860/WP-24	24 Inch	Insertion Loss (Typ.)	0.42	0.47	0.54	0.68	0.9	dB	0.656
PE3C2860/WP-36	36 Inch	Insertion Loss (Typ.)	0.48	0.55	0.65	0.87	1.2	dB	0.678
PE3C2860/WP-48	48 Inch	Insertion Loss (Typ.)	0.53	0.63	0.77	1.06	1.5	dB	0.7
PE3C2860/WP-60	60 Inch	Insertion Loss (Typ.)	0.59	0.71	0.88	1.25	1.8	dB	0.722

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:	0.634 pounds
Additional Weight per Inch:	0.00183 pounds

Electrical Specification Notes:  
Values at 25°C, sea level.

**Mechanical Specifications**

**Cable Assembly**

Width/Diameter	0.5 in [12.7 mm]
Weight	0.634 lbs [287.58 g]

**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
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]

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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	N Male Right Angle
Option	Weatherproof Boot	Weatherproof Boot
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	ASTM B488	50 µin minimum
Dielectric Type	Teflon	Teflon
Body Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal
Body Plating Specification		80 µin minimum
Coupling Nut Material and Plating	Passivated Stainless Steel	Brass, Tri-Metal
Coupling Nut Plating Specification		80 µin minimum
Boot Material	Silicone	Silicone

**Environmental Specifications**

Ingress Protection (IP) Rating	IP68
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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:  
Values at 25°C, sea level.

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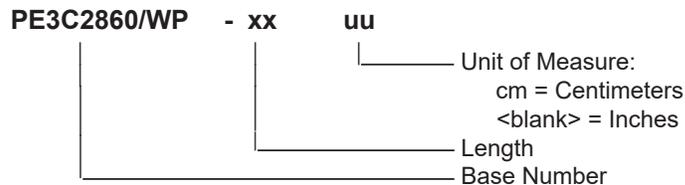


**PE3C2860/WP**

**Typical Performance Data**

**How to Order**

Part Number Configuration:



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

Waterproof IP68 SMA Male (Plug) to N Male (Plug) 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Waterproof IP68 SMA Male \(Plug\) to N Male \(Plug\) Right Angle Low Loss Cable Using LMR-195 Coax with Times Microwave Components PE3C2860/WP](https://www.pasternack.com/waterproof-ip68-sma-male-plug-to-n-male-plug-right-angle-low-loss-cable-using-lmr-195-coax-with-times-microwave-components-pe3c2860/wp)

URL: <https://www.pasternack.com/waterproof-ip68-sma-male-plug-to-n-male-plug-low-loss-cable-using-lmr-195-pe3c2860-wp-p.aspx>

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# PE3C2860/WP CAD Drawing

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