

## Low Loss N Male to N Female Weatherproof Cable SPO-250 Coax with Times Microwave Components

### FMCA2562/WP



#### Configuration

- Connector 1: N Male
- Connector 2: N Female
- Cable Type: SPO-250
- Coax Flex Type: Flexible

#### Features

- Max Frequency 6 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE Jacket
- Silicone Connector Boot
- IP68 Rated

#### Applications

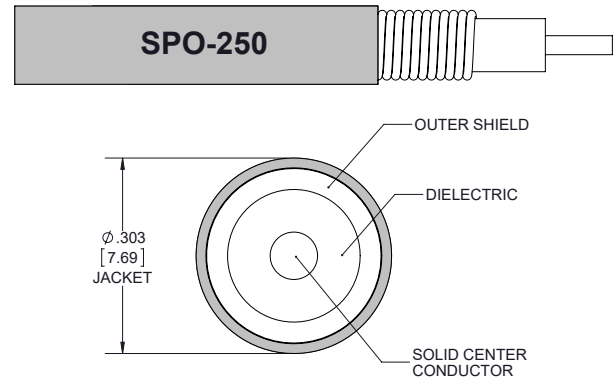
- General Purpose
- Laboratory Use

#### Description

The Fairview Microwave FMCA2562/WP is a weatherproof low loss cable assembly that comes with type N male connection with weatherproof boot on one end and type N female with weatherproof boot on the other. Fairview Microwave'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 0.303 inches diameter. The type N male to type N female cable assembly FMCA2562/WP is built with SPO-250 coax, which has a flexible design. This RF cable assembly with 0.5 inches diameter has copper clad aluminum as cable's inner conducting material and foam PE dielectric type. The weatherproof boot low loss cable can operate at a temperature range of -40 to 85 degrees C. Additional dimensions, specifications, and CAD drawings for this FMCA2562/WP low loss RF cable are available on our downloadable PDF datasheet.

Fairview Microwave 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 type N male to type N female 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		83		%
Passive Intermodulation			-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
Capacitance		24 [78.74]		pF/ft [pF/m]

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#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Inductance		0.054 [0.18]		uH/ft [uH/m]

#### Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
		Frequency	500	1000	2500	6000	MHz	
FMCA2562/WP	Custom Lengths Available	Insertion Loss (Typ.)	0.028	0.041	0.068	0.108	dB/ft	
			0.1	0.14	0.23	0.36	dB/m	
FMCA2562/WP-12	12 Inch	Insertion Loss (Typ.)	0.17	0.25	0.39	0.6	dB	0.704
FMCA2562/WP-24	24 Inch	Insertion Loss (Typ.)	0.2	0.29	0.46	0.71	dB	0.751
FMCA2562/WP-36	36 Inch	Insertion Loss (Typ.)	0.23	0.33	0.53	0.82	dB	0.798
FMCA2562/WP-60	60 Inch	Insertion Loss (Typ.)	0.29	0.41	0.66	1.03	dB	0.892
FMCA2562/WP-50CM	50 CM	Insertion Loss (Typ.)	0.19	0.27	0.43	0.67	dB	0.735

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\*SQRT(FGHz) dB  
 Loss due to Connector 2: 0.1\*SQRT(FGHz) dB  
 Base Weight: 0.704 pounds  
 Additional Weight per Inch: 0.00391 pounds

#### Mechanical Specifications

##### Cable Assembly

Width/Diameter 0.5 in [12.7 mm]  
 Weight 0.704 lbs [319.33 g]

##### Cable

Cable Type SPO-250  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Aluminum  
 Dielectric Type Foam PE  
 Outer Conductor 1 Material and Plating Copper, Corrugated  
 Jacket Material PE  
 Jacket Diameter 0.303 in [7.7 mm]  
 One Time Minimum Bend Radius 1 in [25.4 mm]  
 Bending Moment 0.5 lbs-ft [0.68 N-m]

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#### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Option	Weatherproof Boot	Weatherproof Boot
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Phosphor Bronze, Silver	Brass, Silver
Contact Plating Specification	196 µin minimum	200 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Tri-Metal
Outer Conductor Plating Specification		100 µin minimum
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	118 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Tri-Metal	
Coupling Nut Plating Specification	118 µin minimum	
Boot Material	Silicone	Silicone

#### Environmental Specifications

Operating Range Temperature	-40 to +85 deg C
Ingress Protection (IP) Rating	IP68

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

#### Plotted and Other Data

Notes:  
Values at 25°C, sea level.

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### FMCA2562/WP

#### Typical Performance Data

#### How to Order

Part Number Configuration:

**FMCA2562/WP**

**- xx**

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

Example: FMCA2562/WP-12 = 12 inches long cable  
FMCA2562/WP-100cm = 100 cm long cable

Low Loss N Male to N Female Weatherproof Cable SPO-250 Coax with Times Microwave Components from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Low Loss N Male to N Female Weatherproof Cable SPO-250 Coax with Times Microwave Components FMCA2562/WP](#)

URL: <https://www.fairviewmicrowave.com/low-loss-n-male-to-n-female-weatherproof-cable-spo-250-coax-with-times-microwave-components-fmca2562-wp-p.aspx>

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FMCA2562/WP CAD Drawing

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