



FMCA2563/WP-50CM

Configuration

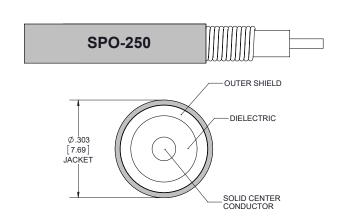
· Connector 1: N Male

· Connector 2: N Female Bulkhead

Cable Type: SPO-250Coax 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 type N male to type N female bulkhead 50 cm cable using SPO-250 coax, part number FMCA2563/WP-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to female gender configuration with 50 ohm flexible SPO-250 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2563/WP-50CM type N male to type N female cable assembly operates to 6 GHz. Our RF cable assembly with type N bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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 RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. 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		%
Passive Intermodulation			-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				
Capacitance		24 [78.74]		pF/ft [pF/m]
Inductance		0.054 [0.18]		uH/ft [uH/m]

Specifications by Frequency





FMCA2563/WP-50CM

Part Number	Longth	Description	F1	F2	F3	F4	Units	Weight (lbs)
Part Number	Length	Frequency	500	1000	2500	6000	MHz	weight (ibs)
FMCA2563/WP	Custom Lengths	Insertion Loss (Typ.)	0.042	0.06	0.103	0.166	dB/ft	
TIVICA2303/ VVI	Available	insertion Loss (Typ.)	0.14	0.2	0.34	0.55	dB/m	
FMCA2563/WP-12	12 Inch	Insertion Loss (Typ.)	0.22	0.26	0.37	0.52	dB	0.849
FMCA2563/WP-24	24 Inch	Insertion Loss (Typ.)	0.26	0.32	0.47	0.68	dB	0.896
FMCA2563/WP-36	36 Inch	Insertion Loss (Typ.)	0.3	0.38	0.57	0.85	dB	0.943
FMCA2563/WP-60	60 Inch	Insertion Loss (Typ.)	0.39	0.5	0.78	1.18	dB	1.037
FMCA2563/WP-50CM	50 CM	Insertion Loss (Typ.)	0.24	0.3	0.43	0.62	dB	0.88

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 dB
Base Weight: 0.849 pounds
Additional Weight per Inch: 0.00391 pounds

Mechanical Specifications

Cable Assembly

 Length
 19.685 in [500 mm]

 Width/Diameter
 .5 in [12.7 mm]

 Weight
 0.88 lbs [399.16 g]

Cable

Cable TypeSPO-250Impedance50 OhmsInner Conductor TypeStranded

Inner Conductor Material and Plating Copper Clad Aluminum

PΕ

Dielectric Type Foam PE

Outer Conductor 1 Material and Plating Copper, Corrugated

Jacket Material

Jacket Diameter0.303 in [7.7 mm]One Time Minimum Bend Radius1 in [25.4 mm]Bending Moment0.5 lbs-ft [0.68 N-m]





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Connectors

Description	Connector 1	Connector 2	
Туре	N Male	N Female Bulkhead	
Option	Weatherproof Boot		
Impedance	50 Ohms	50 Ohms	
Configuration	Straight	Straight	
Contact Material and Plating	Phosphor Bronze, Silver	Phosphor Bronze, 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 Ingress Protection (IP) Rating

-40 to +85 deg C

P68

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.





FMCA2563/WP-50CM

Typical Performance Data

How to Order

Part Number Configuration:

FMCA2563/WP - xx uu

Unit of Measure:
cm = Centimeters

chlank> = Inches

Length
Base Number

Example: FMCA2563/WP-12 = 12 inches long cable

FMCA2563/WP-100cm = 100 cm long cable

Low Loss N Male to N Female Bulkhead Weatherproof Cable SPO-250 Coax in 50 cm 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 Bulkhead Weatherproof Cable SPO-250 Coax in 50 cm with Times Microwave Components FMCA2563/WP-50CM

URL: https://www.fairviewmicrowave.com/low-loss-n-male-to-n-female-bulkhead-weatherproof-cable-spo-250-coax-in-50-cm-with-times-microwave-components-fmca2563-wp-50cm-p.aspx

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FMCA2563/WP-50CM CAD Drawing

Low Loss N Male to N Female Bulkhead Weatherproof Cable SPO-250 Coax in 50 cm with Times Microwave Components

