

Outdoor Rated Low PIM 7/16 DIN Male to N Female Bulkhead Cable SPO-250 Coax Using Times Microwave Parts

The 7/16 DIN male to type N female bulkhead 50 cm cable using SPO-250 coax, part number FMCA2557-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N cable assembly has a male to female gender configuration with 50 ohm corrugated SPO-250 coax. Fairview Microwave's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -160 dBc. The FMCA2557-50CM 7/16 DIN male to type N female cable assembly operates to 5.8 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	Min	T	ур	Max	ι	Jnits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		3	3			%
Passive Intermodulation				-160		dBc
Capacitance		24 [7	8.74]		pF/f	t [pF/m]

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Inductance	0.054 [0.18]	uH/ft [uH/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.15	0.22	0.31	0.49	0.76	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm] Weight 0.4435 lbs [201.17 q]

Cable

Cable Type SPO-250 Impedance 50 Ohms Inner Conductor Type Solid

FMCA2557-50CM DATA SHEET



Configuration:

- 7/16 DIN Male
- N Female Bulkhead
- SPO-250

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE Jacket
- 100% Tested with PIM Test Results Marked on Cable
- Lightweight and Extremely Flexible
- Low Loss with Excellent VSWR
- IP67 (when mated)
- Using Times Microwave Components

Applications:

- General Purpose
- Laboratory Use
- Low PIM Applications
- Outdoor Rated Applications
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

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Inner Conductor Material and Plating

Dielectric Type

Number of Shields

Outer Conductor Material and Plating

Jacket Material

Jacket Diameter

Copper Clad Aluminum

Foam PE

1

Copper

PE, Black

0.303 in [7.7 mm]

One Time Minimum Bend Radius

Bending Moment

1.25 in [31.75 mm] 0.5 lbs-ft [0.68 N-m]

Connectors

Description	Connector 1	Connector 2
Туре	7/16 DIN Male	N Female
Mount Method		Bulkhead
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Spec.	196 µin	196 µin
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plati	ing	Brass, Tri-Metal
Outer Cond Plating Spec.		118 µin
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	118 µin	118 µin
Coupling Nut Material & Pla	iting Brass, Nickel	
Coupling Nut Plating Spec.	118 µin	
Torque		6 in-lbs 0.68 Nm

Environmental Specifications

Temperature

Operating Range

-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

Example: FMCA2557-12 = 12 inches long cable

FMCA2557-100cm = 100 cm long cable





Outdoor Rated Low PIM 7/16 DIN Male to N Female Bulkhead Cable SPO-250 Coax Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Outdoor Rated Low PIM 7/16 DIN Male to N Female Bulkhead Cable SPO-250 Coax Using Times Microwave Parts FMCA2557-50CM

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

URL: https://www.fairviewmicrowave.com/outdoor-rated-low-pim-7-16-din-male-to-n-female-bulkhead-cable-spo-250-coax-using-times-microwave-parts-fmca2557-50cm-p.aspx

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