

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

The RA 7/16 DIN male to type N female 36 inch cable using SPO-250 coax, part number FMCA2559-36, 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 FMCA2559-36 7/16 DIN male to type N female cable assembly operates to 5.8 GHz. The right angle 7/16 DIN interface on the SPO-250 cable allows for easier connections in tight spaces.

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	Т	ур	Max	ι	Inits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		3	33			%
Passive Intermodulation				-160		dBc
Capacitance		24 [78.74]		pF/f	t [pF/m]
Inductance		0.054	[0.18	3]	uH/f	t [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.)	0.19	0.28	0.39	0.63	0.99	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

Dielectric Type

Length* 36 in [914.4 mm] Weight 0.339 lbs [153.77 g]

Cable

Cable Type SPO-250
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Aluminum

Foam PE

FMCA2559-36 DATA SHEET



Configuration:

- 7/16 DIN Male Right Angle
- N Female
- 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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Number of Shields

Outer Conductor Material and Plating

Jacket Material Jacket Diameter Copper PE, Black

1

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 Ma	N Female		
Impedance	50 Ohms	50 Ohms		
Mating Cycles		500		
Contact Material & Plating	Brass, Silver	Brass, Silver		
Contact Plating Spec.	196 µin	200 µin		
Dielectric Type	PTFE	PTFE		
Outer Cond Material & Plati	Brass, Tri-Metal			
Outer Cond Plating Spec.	100 µin			
Body Material & Plating	Brass, Nickel	Brass, Tri-Metal		
Body Plating Spec.	118 µin	100 µin		
Coupling Nut Material & Pla	nting Brass, Nickel			
Coupling Nut Plating Spec.	118 µin			
Torque		9.74 in-lbs 1.1 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: FMCA2559 - xx uu

----- cm = Centimeters <blank> = Inches

----- Length

Example: FMCA2559-12 = 12 inches long cable

FMCA2559-100cm = 100 cm long cable





Outdoor Rated Low PIM RA 7/16 DIN Male to N Female 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 RA 7/16 DIN Male to N Female Cable SPO-250 Coax Using Times Microwave Parts FMCA2559-36

URL: https://www.fairviewmicrowave.com/outdoor-rated-low-pim-ra-7-16-din-male-to-n-female-cable-spo-250-coax-using-times-microwave-parts-fmca2559-36-p.aspx







