

Fire Rated Low PIM N Male to RA N Male Cable SPF-250 Coax in 60 Inch Using Times Microwave Parts

The type N male to RA type N male 60 inch cable using SPF-250 coax, part number FMCA2031-60, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm corrugated SPF-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 FMCA2031-60 type N male to type N male cable assembly operates to 5.8 GHz. The right angle type N interface on the SPF-250 cable allows for easier connections in tight spaces. Times Microwave cable is used in each assembly and TMS components are used to form connections with the super flexible low PIM cable. These cable assemblies are expertly built to satisfy your specific need with high quality Times Microwave Systems manufactured parts.

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	Units		
Frequency Range	DC			5.8	GHz		
VSWR				1.4:1			
Velocity of Propagation		83			%		
Passive Intermodulation		-1	165	-160	dBc		
Capacitance		24 [78.74]		pF/ft [pF/m]			
Inductance		0.054 [0.18]		uH/ft [uH/m]			

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.34	0.43	0.52	0.84	1.32	dB

Electrical Specification Notes:

PIM test results vary between cables

The Insertion Loss data above is based on the performance specifications of the coax 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* 60 in [152.4 cm]

Cable

Cable Type SPF-250

FMCA2031-60 DATA SHEET



Configuration:

- N Male
- TC-250-NM-LP
- N Male Right Angle
- TC-SPO250-NM-RA-LP
- SPF-250

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- FRPE 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
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

Cable Diagram:

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Impedance

Inner Conductor Type

Inner Conductor Material and Plating

Dielectric Type Number of Shields Shield Layer 1

Outer Conductor Material and Plating

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius

Bending Moment

50 Ohms Solid

Copper Clad Aluminum

Foam PE

1

Helically Corrugated Copper Tube

Copper FRPE, Black

0.303 in [7.7 mm]

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

Connectors	Co	nn	ecto	rs
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Description	Connector 1	Connector 2
Туре	N Male	N Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	
Contact Material & Plating	Brass, Silver	Brass, Silver
Contact Plating Spec.	200 μin	200 μin
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80 μin	80 μin
Coupling Nut Material & Pla	iting Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	80 µin	80 μin
Torque	9.74 in-lbs 1.1 N	lm 15.05 in-lbs 1.7 Nm

Environmental Specifications

Temperature

Operating Range Storage Range -55 to +200 deg C -55 to +200 deg C

Environmental Specification Notes:

CMR (Riser) Fire Rated

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

• Values at 25°C, sea level.

How to Order

Part Number Configuration:

Example: FMCA2031-12 = 12 inches long cable

FMCA2031-100cm = 100 cm long cable

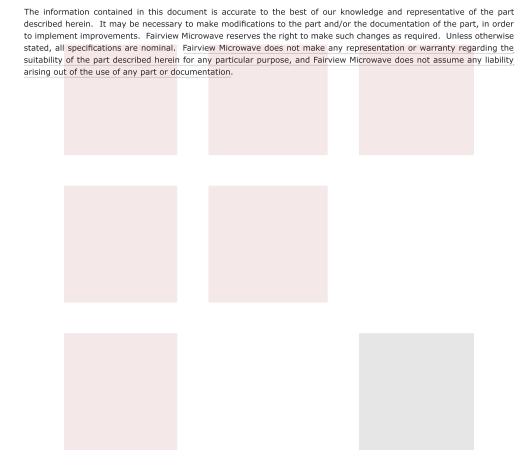




Fire Rated Low PIM N Male to RA N Male Cable SPF-250 Coax in 60 Inch Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Fire Rated Low PIM N Male to RA N Male Cable SPF-250 Coax in 60 Inch Using Times Microwave Parts FMCA2031-60

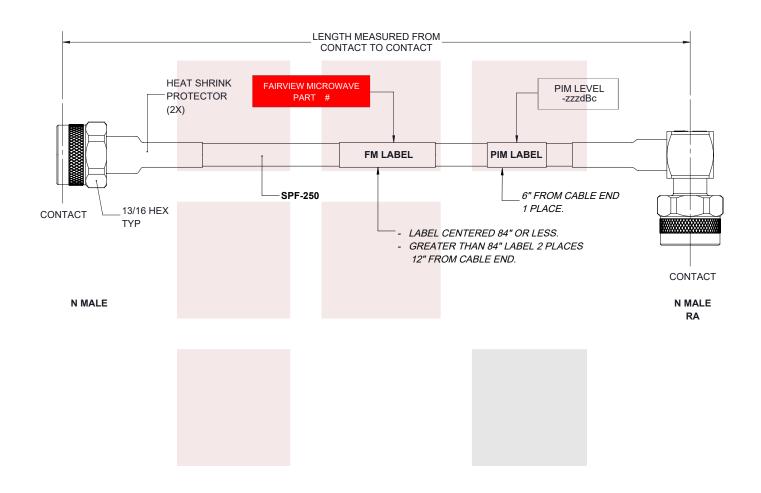
URL: https://www.fairviewmicrowave.com/low-pim-n-male-ra-n-male-cable-spf250-coax-fmca2031-60-p.aspx



301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689







STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

Fairview Microwave	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY 3. DIMENSIONS ARE IN INCHES [mm].			TME.		
■ an INFINIT [®] brand TITLE Fire Rated Low PIM N Male to RA N Male Cable SPF-	DWG NO FMCA2031			CAGE CODE 3FKR5		
250 Coax in 60 Inch Using Times Microwave Parts	CAD FILE 06/05/19	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361