

Fire Rated Low PIM N Male to NEX10 Male Cable  
SPF-250 Coax in 60 Inch Using Times Microwave Parts



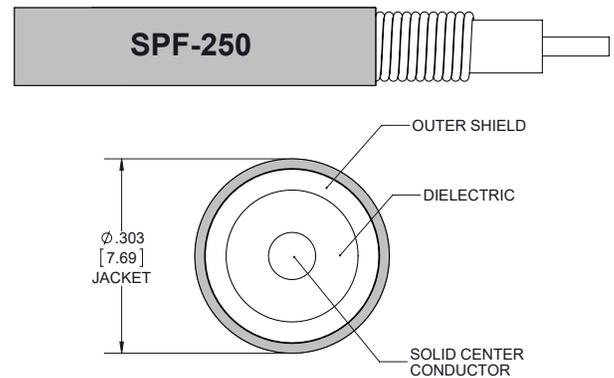
**FMCA2032-60**

**Configuration**

- Connector 1: N Male TC-250-NM-LP
- Connector 2: NEX10 Male TC-250-NX10M-LP
- Cable Type: SPF-250
- Coax Flex Type: Corrugated

**Features**

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- FRPE Jacket
- 500 Mating Cycles
- 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

**Description**

The type N male to NEX10 male 60 inch cable using SPF-250 coax, part number FMCA2032-60, from Fairview Microwave is in-stock and ships same day. This Fairview type N to NEX10 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 FMCA2032-60 type N male to NEX10 male cable assembly operates to 5.8 GHz. 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		5.8	GHz
VSWR			1.4:1	
Velocity of Propagation		83		%
Passive Intermodulation		-165	-160	dBc
IM3 (2x43dBm Tones) at 850 MHz or 1900 MHz				

Fire Rated Low PIM N Male to NEX10 Male Cable  
SPF-250 Coax in 60 Inch Using Times Microwave Parts



**FMCA2032-60**

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Capacitance		24 [78.74]		pF/ft [pF/m]
Inductance		0.054 [0.18]		uH/ft [uH/m]

**Specifications 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]  
Width/Diameter .63 in [16 mm]

**Cable**

Cable Type SPF-250  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Aluminum  
Dielectric Type Foam PE  
Number of Shields 1  
Shield Layer 1 Helically Corrugated Copper Tube  
Outer Conductor 1 Material and Plating Copper  
Jacket Material FRPE, Black  
Jacket Diameter 0.303 in [7.7 mm]  
One Time Minimum Bend Radius 1.25 in [31.75 mm]  
Bending Moment 0.5 lbs-ft [0.68 N-m]

Fire Rated Low PIM N Male to NEX10 Male Cable  
SPF-250 Coax in 60 Inch Using Times Microwave Parts



**FMCA2032-60**

**Connectors**

Description	Connector 1	Connector 2
Type	N Male	NEX10 Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Mating Cycles	500	500
Contact Material and Plating	Brass, Silver	Brass, Silver
Contact Plating Specification	200 μin	100 μin
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	80 μin	100 μin
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Specification	80 μin	100 μin
Torque	9.74 in-lbs 1.1 Nm	13.28 in-lbs 1.5 Nm

**Environmental Specifications**

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

Fire Rated Low PIM N Male to NEX10 Male Cable  
SPF-250 Coax in 60 Inch Using Times Microwave Parts

**FMCA2032-60**



Typical Performance Data

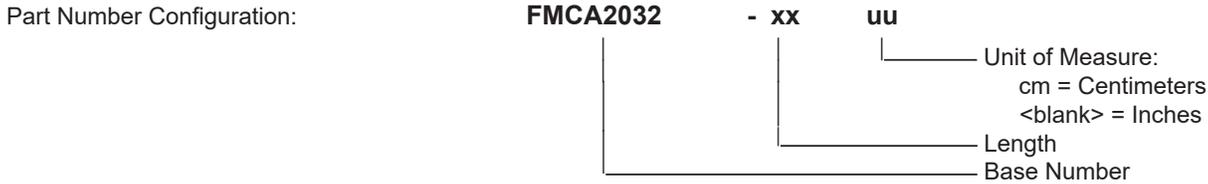


Fire Rated Low PIM N Male to NEX10 Male Cable  
SPF-250 Coax in 60 Inch Using Times Microwave Parts



**FMCA2032-60**

**How to Order**



Example: FMCA2032-12 = 12 inches long cable  
FMCA2032-100cm = 100 cm long cable

Fire Rated Low PIM N Male to NEX10 Male Cable SPF-250 Coax in 60 Inch Using Times Microwave Parts 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: [Fire Rated Low PIM N Male to NEX10 Male Cable SPF-250 Coax in 60 Inch Using Times Microwave Parts FMCA2032-60](https://www.fairviewmicrowave.com/low-pim-n-male-nex10-male-cable-spf250-coax-fmca2032-60-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-n-male-nex10-male-cable-spf250-coax-fmca2032-60-p.aspx>

The information contained within 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 to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

# FMCA2032-60 CAD Drawing

Fire Rated Low PIM N Male to NEX10 Male Cable SPF-250 Coax in 60 Inch Using Times Microwave Parts

