

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

The type N male to NEX10 male 60 inch cable using SPO-250 coax, part number FMCA2017-60, 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 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 FMCA2017-60 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	Min	Т	ур	Max	Units
Frequency Range	DC			5.8	GHz
VSWR				1.4:1	
Velocity of Propagation		3	33		%
Passive Intermodulation		-1	.65	-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 TypeSPO-250Impedance50 OhmsInner Conductor TypeSolid

FMCA2017-60 DATA SHEET



Configuration:

- N Male
- TC-250-NM-LP
- NEX10 Male
- TC-250-NX10M-LP
- SPO-250

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE 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

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





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

Copper Clad Aluminum

Foam PE

1

Helically Corrugated Copper Tube

Copper PE, Black

0.303 in [7.7 mm]

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

Connectors

Description	Connector	1 Connector 2
Туре	N Male	NEX10 Male
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material & Plating	Brass, Silver	Brass, Silver
Contact Plating Spec.	200 µin	100 μin
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Met	al Brass, Tri-Metal
Body Plating Spec.	80 µin	100 μin
Coupling Nut Material & Pla	ting Brass, Tri-Met	al Brass, Tri-Metal
Coupling Nut Plating Spec.	80 µin	100 μin
Torque	9.74 in-lbs 1.1	Nm 13.28 in-lbs 1.5 Nm

Environmental Specifications

Temperature

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

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: FMCA2017-12 = 12 inches long cable

FMCA2017-100cm = 100 cm long cable

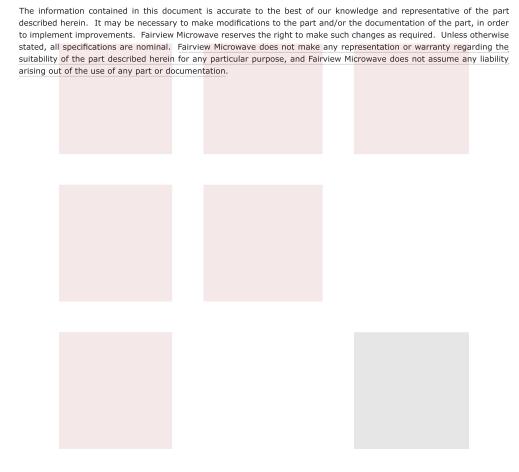




Outdoor Rated Low PIM N Male to NEX10 Male Cable SPO-250 Coax in 60 Inch Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Outdoor Rated Low PIM N Male to NEX10 Male Cable SPO-250 Coax in 60 Inch Using Times Microwave Parts FMCA2017-60

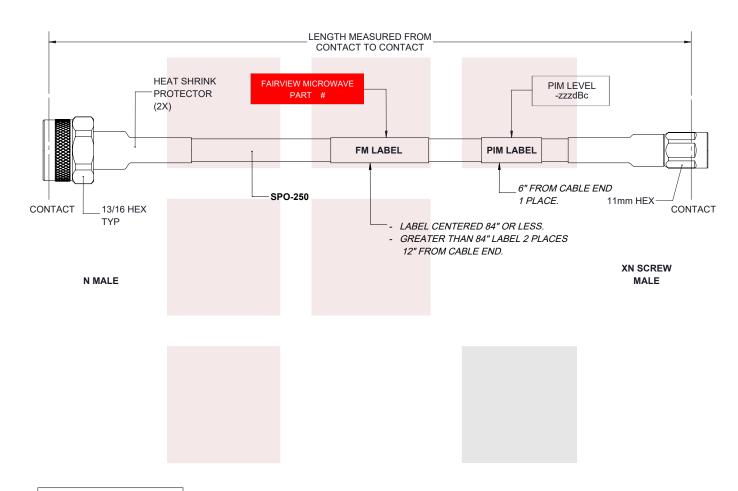
URL: https://www.fairviewmicrowave.com/low-pim-n-male-nex10-male-cable-spo250-coax-fmca2017-60-p.aspx



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 TIME. 3. DIMENSIONS ARE IN INCHES [mm].					
TITLE	DWG NO FMCA2017			CAGE CODE 3FKR5		
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