

FMCA1921 DATA SHEET

Plenum Low PIM 7/16 DIN Male to NEX10 Male Cable SPP-250-LLPL Coax Using Times Microwave Parts

The 7/16 DIN male to NEX10 male cable using SPP-250-LLPL coax, part number FMCA1921, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to NEX10 cable assembly has a male to male gender configuration with 50 ohm corrugated SPP-250-LLPL 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 FMCA1921 7/16 DIN 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	ι	Inits
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		7	76			%
RF Shielding	100					dB
Passive Intermodulation		-1	165	-160		dBc
Capacitance		27 [88.58]		pF/ft [pF/m]		
Inductance		0.067 [0.22]		uH/ft [uH/m]		
DC Resistance Inner Con	ductor	3 [9	3 [9.84]		Ω/1000ft [Ω/I	

Performance by Frequency

F1	F2	F3	F4	F5	Units
0.45	0.7	1	2.5	5.8	GHz
.) 0.038	0.048	0.057	0.094	0.148	dB/ft
0.12	0.16	0.19	0.31	0.49	dB/m
	0.45	0.45 0.7 .) 0.038 0.048	0.45 0.7 1 .) 0.038 0.048 0.057	0.45 0.7 1 2.5 .) 0.038 0.048 0.057 0.094	0.45 0.7 1 2.5 5.8 .) 0.038 0.048 0.057 0.094 0.148

Electrical Specification Notes:

PIM test results vary between cables

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length*

0 in [0 mm]



Configuration:

- 7/16 DIN Male
- TC-250-716M-LP
- NEX10 Male
- TC-250-NX10M-LP
- SPP-250-LLPL

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- Shielding Effectivity > 100 dB
- 76% Phase Velocity
- FEP Jacket
- 100% Tested with PIM Test Results Marked on Cable
- UL910 Plenum Rated 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)
- Plenum Installations
- 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





Cable

Cable Type SPP-250-LLPL **Impedance** 50 Ohms Inner Conductor Type Solid Inner Conductor Material and Plating Copper Dielectric Type PTFE

Number of Shields Shield Layer 1

Outer Conductor Material and Plating

Outer Conductor Diameter

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius

Helically Corrugated Copper Tube

Copper

0.25 in [6.35 mm]

FEP, Blue

0.28 in [7.11 mm]

1.25 in [31.75 mm] Bending Moment 0.8 lbs-ft [1.08 N-m]

Connectors

Description	Connector 1	Connector 2
Туре	7/16 DIN Male	NEX10 Male
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
Contact Material & Plating	Brass, Silver	Brass, Silver
Contact Plating Spec.	200 μin	100 μin
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80 μin	100 μin
Coupling Nut Material & Pla	ting Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Spec.	80 μin	100 μin
Torque	22.127 ft-lbs 30 N	lm 13.28 in-lbs 1.5 Nm

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C Storage Range -55 to +200 deg C Plenum Rating UL910

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

How to Order

FMCA1921 - xx Part Number Configuration: uu cm = Centimeters

dank> = Inches

Example: FMCA1921-12 = 12 inches long cable

FMCA1921-100cm = 100 cm long cable

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Length





Plenum Low PIM 7/16 DIN Male to NEX10 Male Cable SPP-250-LLPL 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: Plenum Low PIM 7/16 DIN Male to NEX10 Male Cable SPP-250-LLPL Coax Using Times Microwave Parts FMCA1921

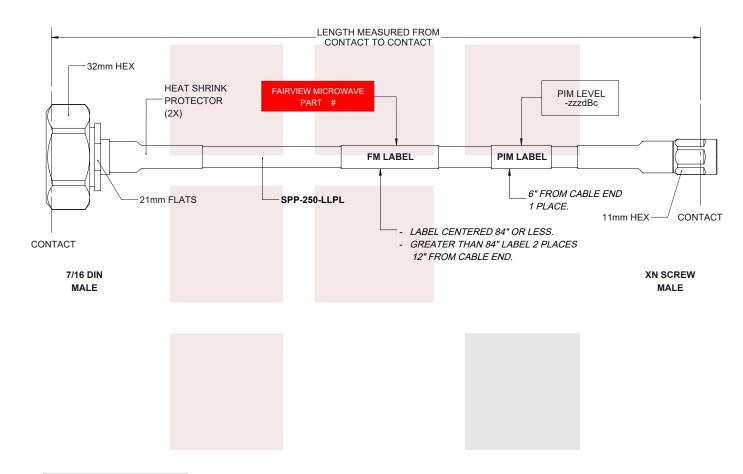
URL: https://www.fairviewmicrowave.com/low-pim-7-16-din-male-nex10-male-cable-spp250llpl-coax-fmca1921-p.aspx



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STANDARD TOLERANCES .X ±0.2

.XX ±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 FMCA1921			CAGE CODE 3FKR5		
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