

FMCA1852 DATA SHEET

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

The 7/16 DIN male to 7/16 DIN female cable using SPP-250-LLPL coax, part number FMCA1852, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to 7/16 DIN cable assembly has a male to female 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 FMCA1852 7/16 DIN male to 7/16 DIN female 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

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Description	Min	т	ур	Max	Units	
Frequency Range	DC			5.8		GHz
VSWR				1.4:1		
Velocity of Propagation		-	76			%
RF Shielding	100					dB
Passive Intermodulation		-1	.65	-160	(dBc
Capacitance		27 [88.58] pF/ft [p		:[pF/m]		
Inductance		0.067 [0.22] uH/ft [uH/r		: [uH/m]		
DC Resistance Inner Conductor		3 [9.84]		Ω/1000ft [Ω/Km]		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Max	.) 0.038	0.048	0.057	0.094	0.148	dB/ft
	0.12	0.16	0.19	0.31	0.49	dB/m

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 for the male connector and 0.1 dB for the female connector.

Mechanical Specifications

Cable Assembly Length*

0 in [0 mm]



Configuration:

- 7/16 DIN Male
- TC-250-716M-LP
- 7/16 DIN Female
- TC-SPP250-716F-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 Fairview Microwave





Cable

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	1			
Shield Layer 1	Helically Corrugated Copper Tube			
Outer Conductor Material and Plating	Copper			
Outer Conductor Diameter	0.25 in [6.35 mm]			
Jacket Material	FEP, Blue			
Jacket Diameter	0.28 in [7.11 mm]			
One Time Minimum Bend Radius	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	7/16 DIN Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Spec.	200 µin	196 µin
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plati	ing	Brass, Tri-Metal
Outer Cond Plating Spec.		118 µin
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	80 µin	118 µin
Coupling Nut Material & Pla	ating Brass, Nickel	
Coupling Nut Plating Spec.	80 µin	
Torque	22.127 ft-lbs 30 N	m 22.127 ft-lbs 30 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.

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How to Order

Part Number Configuration:

FMCA1852 - xx



Example: FMCA1852-12 = 12 inches long cable FMCA1852-100cm = 100 cm long cable

Plenum Low PIM 7/16 DIN Male to 7/16 DIN Female 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 7/16 DIN Female Cable SPP-250-LLPL Coax Using Times Microwave Parts FMCA1852

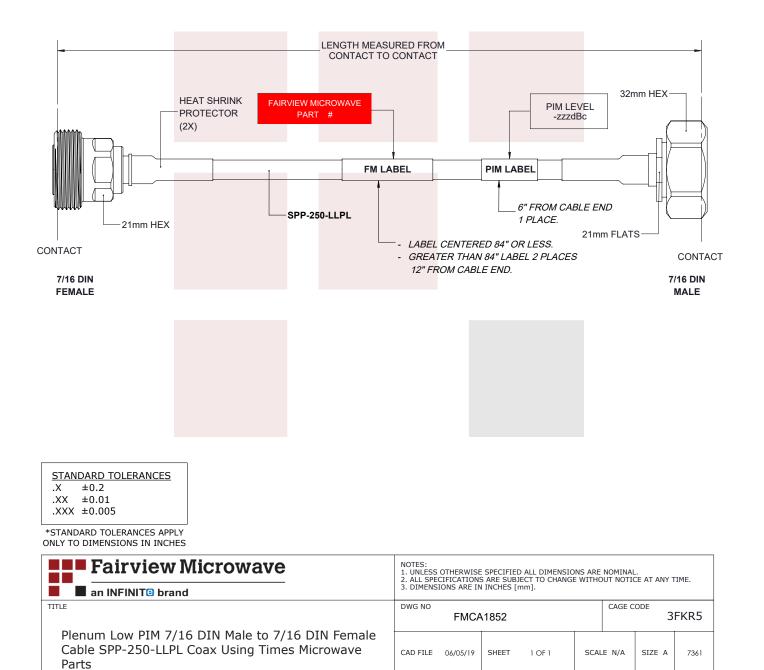
URL: https://www.fairviewmicrowave.com/low-pim-7-16-male-7-16-female-cable-spp250llpl-coax-fmca1852-p.aspx

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