

Plenum Low PIM RA 7/16 DIN Male to 7/16 DIN Female Cable SPP-250-LLPL Coax in 60 Inch Using Times Microwave Parts

The RA 7/16 DIN male to 7/16 DIN female 60 inch cable using SPP-250-LLPL coax, part number FMCA1853-60, 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 FMCA1853-60 7/16 DIN male to 7/16 DIN female cable assembly operates to 5.8 GHz. The right angle 7/16 DIN interface on the SPP-250-LLPL 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	Typ Max		Units			
Frequency Range	DC			5.8	GHz		
VSWR				1.4:1			
Velocity of Propagation		7	6		%		
RF Shielding	100				dB		
Passive Intermodulation		-1	65	-160	dBc		
Capacitance		27 [88.58]			pF/ft [pF/m]		
Inductance		0.067 [0.22]			uH/ft [uH/m]		
DC Resistance Inner Conductor		3 [9.84]			$\Omega/1000$ ft [$\Omega/$ Km]		

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	0.7	1	2.5	5.8	GHz
Insertion Loss (Max.)	0.39	0.44	0.49	0.67	0.94	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 $0.1~\mathrm{dB}$ per connector.

Mechanical Specifications

Cable Assembly

Length*

60 in [152.4 cm]

FMCA1853-60 DATA SHEET



Configuration:

- 7/16 DIN Male Right Angle
- TC-SPP250-716M-RA-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





Weight 0.73 lbs [331.12 g]

Cable

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

Number of Shields 1
Shield Layer 1 Helically Corrugated Copper Tube

Outer Conductor Material and Plating

Outer Conductor Diameter

Jacket Material

Jacket Diameter

One Time Minimum Bend Radius

Jacket Diameter

Bending Moment

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

0.25 in [6.35 mm]

0.28 in [7.11 mm]

Copper

FEP, Blue

Connectors

Description	Connector	1 Connector 2
Туре	7/16 DIN Mal	le 7/16 DIN Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Spec.	196µ in	196μ in
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plat	ing	Brass, Tri-Metal
Outer Cond Plating Spec.		118µ in
Body Material & Plating	Brass, Nickel	Brass, Tri-Metal
Body Plating Spec.	118µ in	118µ in
Coupling Nut Material & Pla	ting Brass, Nickel	
Coupling Nut Plating Spec.	118µ in	
Torque	22.127 ft-lbs 30	Nm 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:	FMCA1853	-	XX	uu	
					cm = Centimeters <blank> = Inches</blank>
					Length

Example: FMCA1853-12 = 12 inches long cable

FMCA1853-100cm = 100 cm long cable

Plenum Low PIM RA 7/16 DIN Male to 7/16 DIN Female Cable SPP-250-LLPL 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: Plenum Low PIM RA 7/16 DIN Male to 7/16 DIN Female Cable SPP-250-LLPL Coax in 60 Inch Using Times Microwave Parts FMCA1853-60

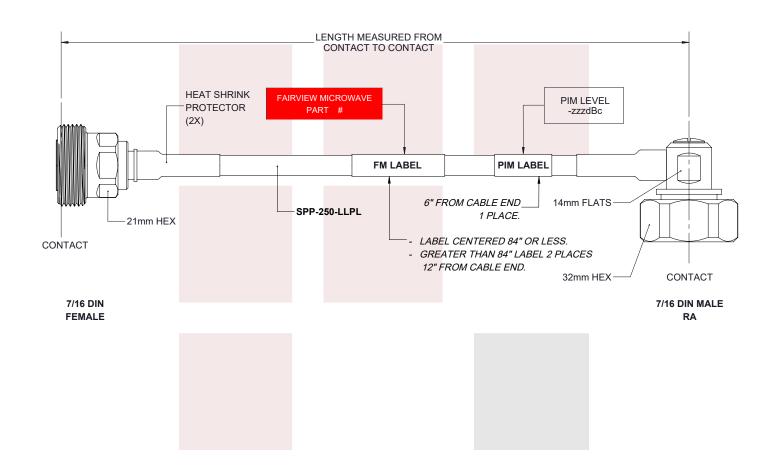
URL: https://www.fairviewmicrowave.com/low-pim-ra-7-16-male-7-16-female-cable-spp250llpl-fmca1853-60-p.aspx

The information contained in 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 any liability arising out of the use of any part or documentation.

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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].							
an INFINIT [®] brand								
Plenum Low PIM RA 7/16 DIN Male to 7/16 DIN Female Cable SPP-250-LLPL Coax in 60 Inch Using Times Microwave Parts	DWG NO FMCA	CAGE CODE 3FKR5						
	CAD FILE 06/05/19	SHEET 1 OF 1	SCAL	_E N/A	SIZE A	7361		