

Outdoor Rated Low PIM 7/16 DIN Male to 7/16 DIN Female Cable SPO-250 Coax Using Times Microwave Parts

The 7/16 DIN male to 7/16 DIN female 100 cm cable using SPO-250 coax, part number FMCA2565-100CM, 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 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 FMCA2565-100CM 7/16 DIN male to 7/16 DIN female cable assembly operates to 5.8 GHz.

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		83		%
Passive Intermodulation			-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	0.25	0.5	1	2.5	5.8	GHz
Insertion Loss (Typ.)	0.2	0.29	0.41	0.66	1.03	dB

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of $0.1 * \text{SQRT}(F\text{GHz})$ dB per connector.

Mechanical Specifications

Cable Assembly

Length*	39.37 in [100 cm]
Weight	0.393 lbs [178.26 g]

Cable

Cable Type	SPO-250
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper Clad Aluminum
Dielectric Type	Foam PE
Number of Shields	1



Configuration:

- 7/16 DIN Male
- 7/16 DIN Female
- SPO-250

Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- PE Jacket
- 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
- Outdoor Rated Applications
- Distributed Antenna Systems (DAS)
- Multi-Carrier Communication Systems
- PIM Testing

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Outer Conductor Material and Plating	Copper
Jacket Material	PE, 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]

Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	7/16 DIN Female
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Spec.	196 μ in	196 μ in
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating		Brass, Tri-Metal
Outer Cond Plating Spec.		118 μ in
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	118 μ in	118 μ in
Coupling Nut Material & Plating	Brass, Nickel	
Coupling Nut Plating Spec.	118 μ in	

Environmental Specifications
Temperature

Operating Range -40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2565 - xx uu

 cm = Centimeters
 <blank> = Inches

Length

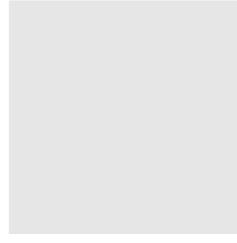
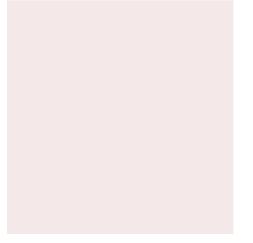
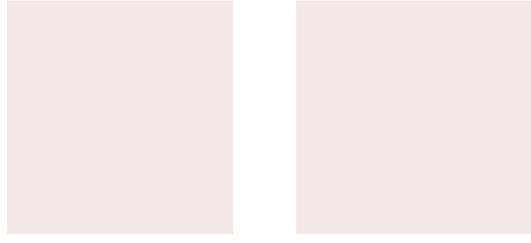
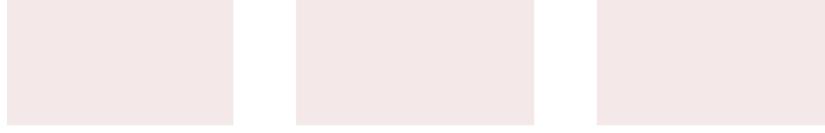
 Example: FMCA2565-12 = 12 inches long cable
 FMCA2565-100cm = 100 cm long cable

Outdoor Rated Low PIM 7/16 DIN Male to 7/16 DIN Female Cable SPO-250 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.

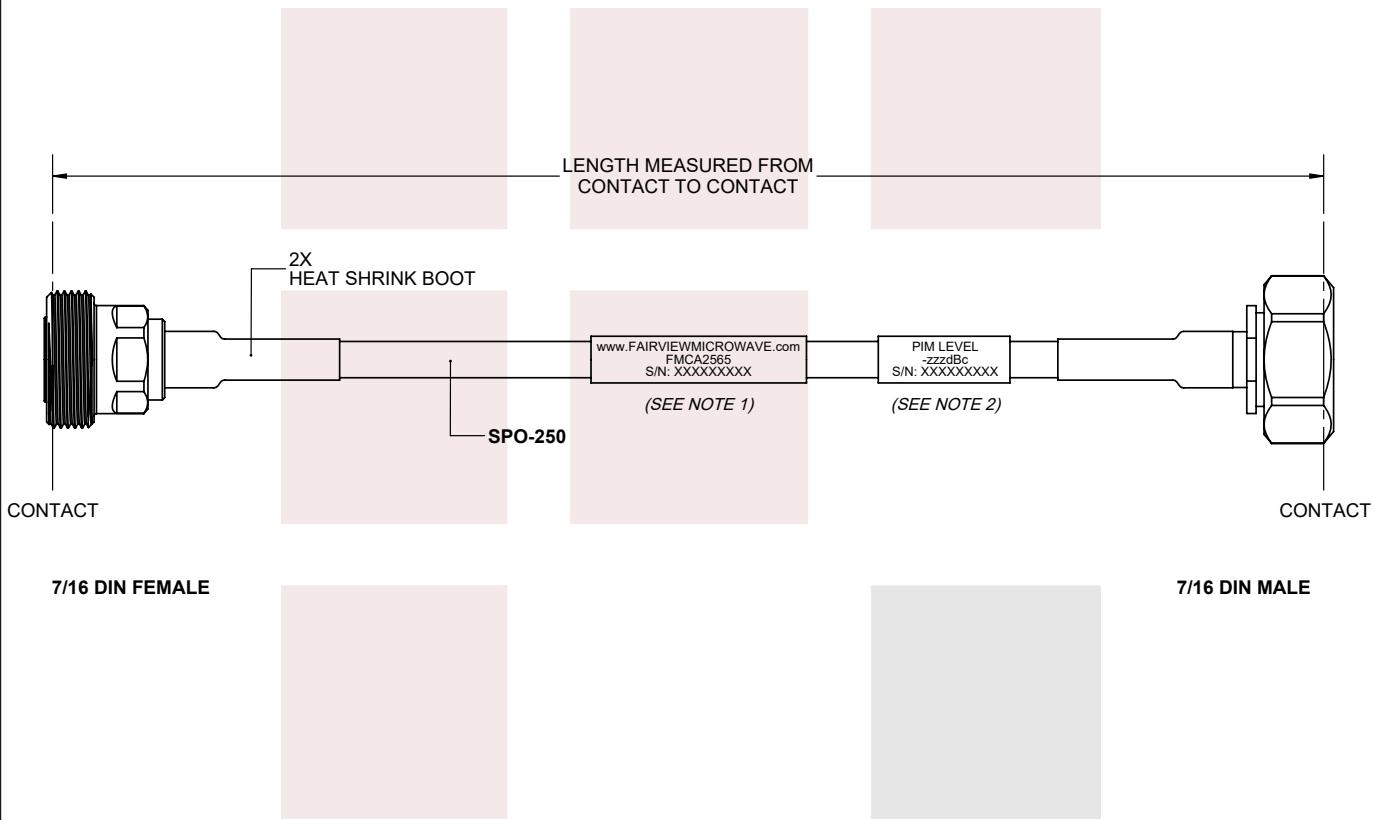
Click the following link to obtain additional part information: [Outdoor Rated Low PIM 7/16 DIN Male to 7/16 DIN Female Cable SPO-250 Coax Using Times Microwave Parts FMCA2565-100CM](https://www.fairviewmicrowave.com/outdoor-rated-low-pim-7-16-din-male-to-7-16-din-female-cable-spo-250-coax-using-times-microwave-parts-fmca2565-100cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/outdoor-rated-low-pim-7-16-din-male-to-7-16-din-female-cable-spo-250-coax-using-times-microwave-parts-fmca2565-100cm-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	9/21/2021	A. GANWANI



NOTES:

1. CABLES 84" AND UNDER HAVE 1 LABEL CENTERED. CABLES OVER 84" HAVE 2 LABELS, ONE AT EACH END 12.0" FROM THE END OF THE CONNECTOR.
2. 6" FROM CABLE END 1 PLACE FOR ALL LENGTHS OF CABLE.

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TITLE	Outdoor Rated Low PIM 7/16 DIN Male to 7/16 DIN Female Cable SPO-250 Coax Using Times Microwave Parts	TOLERANCES:	CABLE LENGTH (L) TOLERANCES:	
$X = \pm .2$ [5.08] FRACTIONS $XX = \pm .02$ [.51] $\pm 1/32$ $XXX = \pm .005$ [.13] ANGLES $\pm 1^\circ$			$L \leq 12$ [305] $= +1$ [25] / -0 60 [1524] $< L \leq 120$ [3048] $= +4$ [102] / -0 120 [3048] $< L \leq 300$ [7620] $= +6$ [152] / -0 300 [7620] $< L = +5\%L$ / -0	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			SIZE A CAGE CODE 3FKR5 DRAWN BY K.DANG ITEM NO. FMCA2565 REV A	

T-Rev.D