

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

The RA 7/16 DIN male to type N male 50 cm cable using SPO-250 coax, part number FMCA2558-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N 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 FMCA2558-50CM 7/16 DIN male to type N male cable assembly operates to 5.8 GHz. The right angle 7/16 DIN interface on the SPO-250 cable allows for easier connections in tight spaces.

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.)	0.15	0.22	0.31	0.49	0.76	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*SQRT(FGHz) dB per connector.

Mechanical Specifications

Cable Assembly

Length* 19.68 in [499.87 mm]

Cable

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



Configuration:

- 7/16 DIN Male Right Angle
- N Male
- 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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Number of Shields	1
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	N Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Phosphor Bronze, Silver
Contact Plating Spec.	196 µin	196 µin
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Nickel	Brass, Tri-Metal
Body Plating Spec.	118 µin	118 µin
Coupling Nut Material & Plating	Brass, Nickel	Brass, Tri-Metal
Coupling Nut Plating Spec.	118 µin	118 µin
Torque		7.08 in-lbs 0.8 Nm

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:

FMCA2558 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

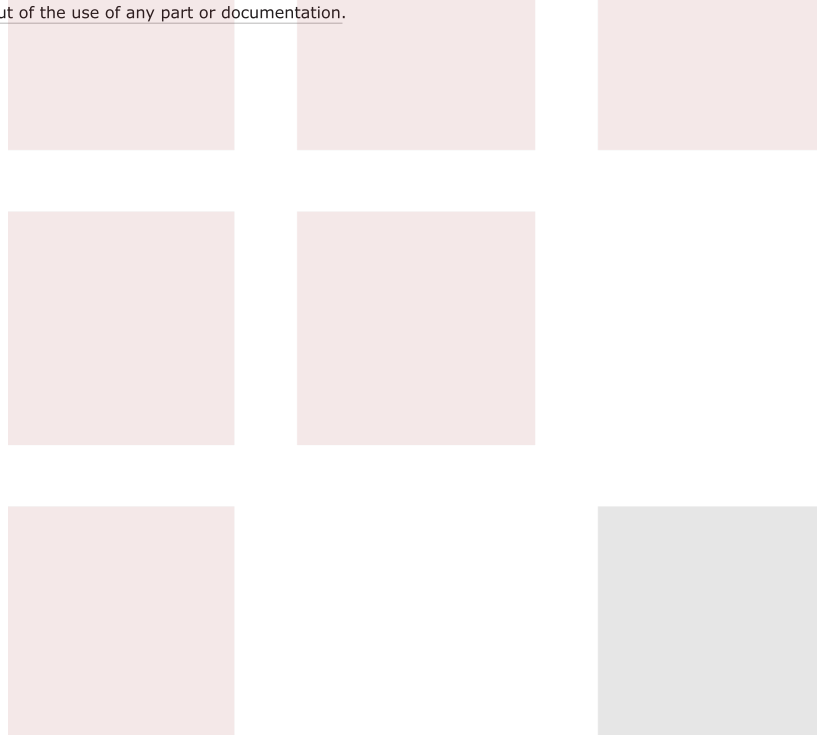
Example: FMCA2558-12 = 12 inches long cable
 FMCA2558-100cm = 100 cm long cable

Outdoor Rated Low PIM RA 7/16 DIN Male to N Male 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.

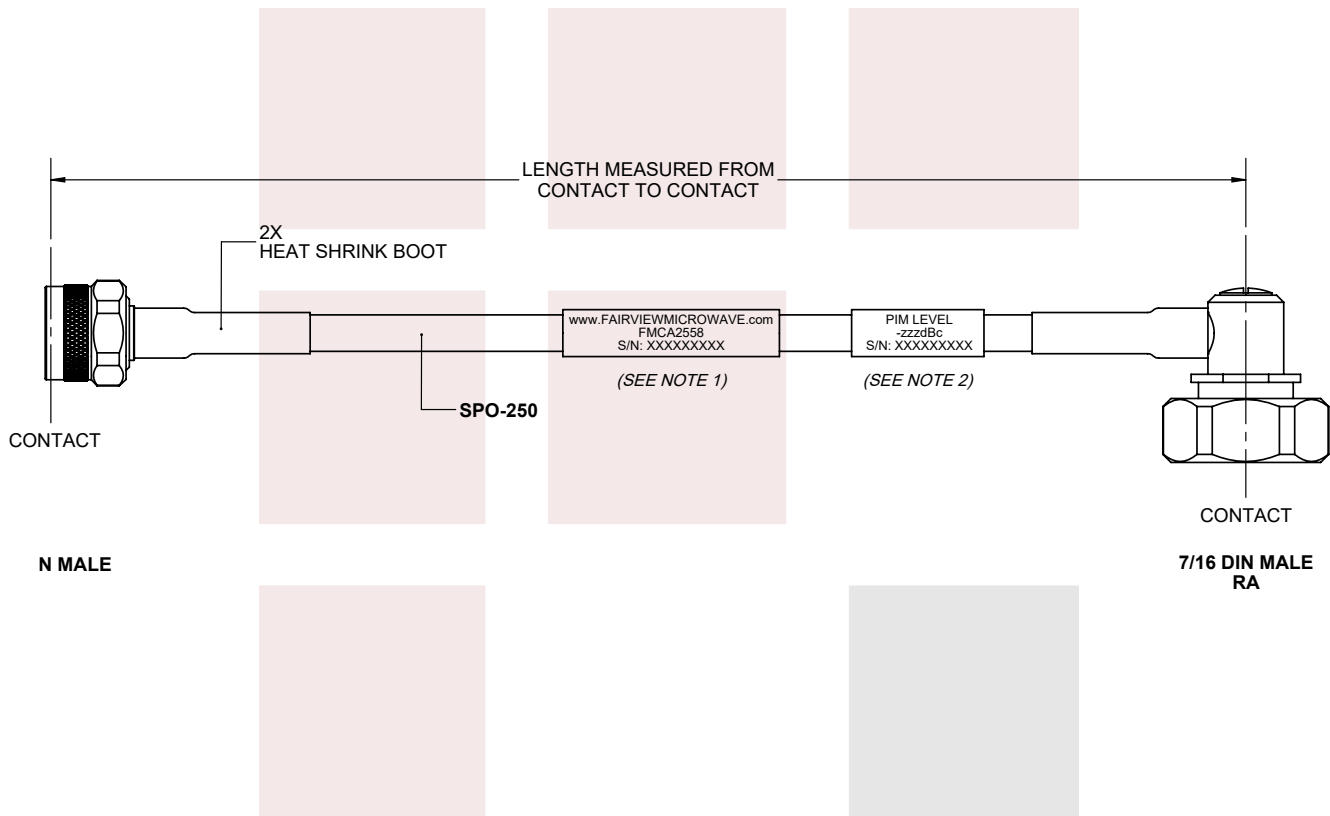
Click the following link to obtain additional part information: [Outdoor Rated Low PIM RA 7/16 DIN Male to N Male Cable SPO-250 Coax Using Times Microwave Parts FMCA2558-50CM](https://www.fairviewmicrowave.com/outdoor-rated-low-pim-ra-7-16-din-male-to-n-male-cable-spo-250-coax-using-times-microwave-parts-fmca2558-50cm-p.aspx)

URL: <https://www.fairviewmicrowave.com/outdoor-rated-low-pim-ra-7-16-din-male-to-n-male-cable-spo-250-coax-using-times-microwave-parts-fmca2558-50cm-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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Outdoor Rated Low PIM RA 7/16 DIN Male to N Male Cable SPO-250 Coax Using Times Microwave Parts		CABLE LENGTH (L) TOLERANCES:		SHEET 1 OF 1	
SIZE A		CAGE CODE 3FKR5		SCALE N/A	
DRAWN BY K.DANG		ITEM NO. FMCA2558		REV A	

T-Rev.D