

FMCA2556-12 DATA SHEET

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

The 7/16 DIN male to type N female 12 inch cable using SPO-250 coax, part number FMCA2556-12, from Fairview Microwave is in-stock and ships same day. This Fairview 7/16 DIN to type N 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 FMCA2556-12 7/16 DIN male to type N 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 | Т | ур | Max | U | Inits |
|-------------------------|-----|-------|--------|-------|-------|--------|
| Frequency Range | DC | | | 5.8 | | GHz |
| VSWR | | | | 1.4:1 | | |
| Velocity of Propagation | | 8 | 33 | | | % |
| Passive Intermodulation | | | | -160 | | dBc |
| Capacitance | | 24 [| 78.74] | | pF/fl | [pF/m] |
| Inductance | | 0.054 | [0.18] | | uH/fl | [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.) | 0.13 | 0.19 | 0.27 | 0.42 | 0.65 | 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*
Weight

Cable

Cable Type
Impedance
Inner Conductor Type
Inner Conductor Material and Plating
Dielectric Type
Number of Shields

12 in [304.8 mm] 0.4435 lbs [201.17 g]

SPO-250 50 Ohms Solid Copper Clad Aluminum Foam PE



Configuration:

- 7/16 DIN Male
- N 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

Jacket Material

Jacket Diameter

Copper PE, Black

0.303 in [7.7 mm]

One Time Minimum Bend Radius

Bending Moment

1.25 in [31.75 mm] 0.5 lbs-ft [0.68 N-m]

Connectors

| Description Connector 1 | | or 1 | Connector 2 | | |
|-----------------------------|-------------------|-------|--------------------|--|--|
| Туре | 7/16 DIN Male | | N Female | | |
| Impedance | 50 Ohr | ns | 50 Ohms | | |
| Mating Cycles | | | 500 | | |
| Contact Material & Plating | Brass, Si | lver | Brass, Silver | | |
| Contact Plating Spec. | 196 µi | n | 200 µin | | |
| Dielectric Type | PTFE | | PTFE | | |
| Outer Cond Material & Plati | ng | | Brass, Tri-Metal | | |
| Outer Cond Plating Spec. | | | 100 µin | | |
| Body Material & Plating | Brass, Tri- | Metal | Brass, Tri-Metal | | |
| Body Plating Spec. | 118 µi | n | 100 µin | | |
| Coupling Nut Material & Pla | ing Brass, Nickel | | | | |
| Coupling Nut Plating Spec. | 118 µi | n | | | |
| Torque | | | 9.74 in-lbs 1.1 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:

FMCA2556 - xx uu | cm = Centimeters | cblank > = Inches | Length

Example: FMCA2556-12 = 12 inches long cable

FMCA2556-100cm = 100 cm long cable



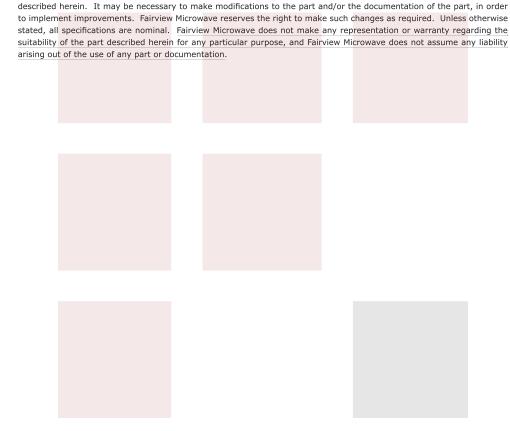


Outdoor Rated Low PIM 7/16 DIN Male to N Female Cable SPO-250 Coax Using Times Microwave Parts from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: Outdoor Rated Low PIM 7/16 DIN Male to N Female Cable SPO-250 Coax Using Times Microwave Parts FMCA2556-12

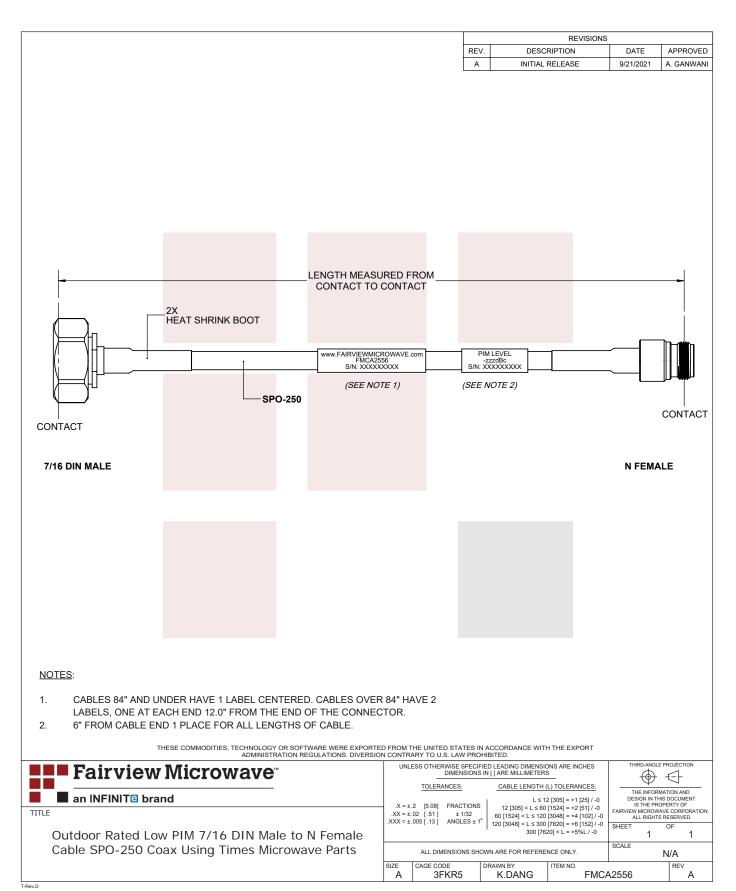
URL: https://www.fairviewmicrowave.com/outdoor-rated-low-pim-7-16-din-male-to-n-female-cable-spo-250-coax-using-times-microwave-parts-fmca2556-12-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part









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