

RA 4.1/9.5 Mini DIN Male to 4.1/9.5 Mini DIN Female Bulkhead Cable 1/4 inch Superflexible Coax in 100 Cm

The RA 4.1/9.5 Mini DIN male to 4.1/9.5 Mini DIN female bulkhead 100 cm cable using 1/4 inch superflexible coax, part number FMCA2236-100CM, from Fairview Microwave is in-stock and ships same day. This Fairview 4.1/9.5 Mini DIN to 4.1/9.5 Mini DIN cable assembly has a male to female gender configuration with 50 ohm corrugated 1/4" superflexible coax. Fairview Microwave's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. The FMCA2236-100CM 4.1/9.5 Mini DIN male to 4.1/9.5 Mini DIN female cable assembly operates to 6 GHz. The right angle 4.1/9.5 Mini DIN interface on the 1/4" Superflexible cable allows for easier connections in tight spaces. Our RF cable assembly with 4.1/9.5 Mini DIN bulkhead interface allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

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 | | 6 | GHz |
| VSWR | | | 1.5:1 | |
| Velocity of Propagation | | 82 | | % |
| RF Shielding | 120 | | | dB |
| Passive Intermodulation | | | -150 | dBc |
| Capacitance | | 24.4 [80.05] | | pF/ft [pF/m] |
| Inductance | | 0.059 [0.19] | | uH/ft [uH/m] |
| DC Resistance Inner Conductor | | 3.2 [10.5] | | Ω /1000ft [Ω /Km] |
| DC Resistance Outer Conductor | | 2.53 [8.3] | | Ω /1000ft [Ω /Km] |
| Jacket Spark | | | 2,000 | Vrms |

Performance by Frequency

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-----|------|------|------|-----|-------|
| Frequency | 0.1 | 0.25 | 0.5 | 1 | 3 | GHz |
| Insertion Loss (Typ.) | 0.3 | 0.33 | 0.37 | 0.43 | 0.6 | 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 0.15 dB for the right angle connector and 0.1 dB for the straight connector.



Configuration:

- 4.1/9.5 Mini DIN Male Right Angle
- 4.1/9.5 Mini DIN Female Bulkhead
- 1/4" Superflexible

Features:

- Max Frequency 6 GHz
- Low PIM: -150 dBc Max
- Shielding Effectivity > 120 dB
- 82% Phase Velocity
- PE Jacket
- Low PIM and Low Loss
- 100% Tested with PIM Test Results Marked on Cable

Applications:

- General Purpose
- Laboratory Use
- Distributed Antenna Systems (DAS)
- Low PIM Applications and PIM Testing

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Mechanical Specifications
Cable Assembly

Length* 39.37 in [100 cm]
Diameter 1.06 in [26.92 mm]

Cable

Cable Type 1/4" Superflexible
Impedance 50 Ohms
Inner Conductor Type Solid
Inner Conductor Material and Plating Copper Clad Aluminum
Dielectric Type PE (F)
Number of Shields 1
Shield Layer 1 Helicly Corrugated Copper Tube
Jacket Material PE, Black
Jacket Diameter 0.303 in [7.7 mm]

One Time Minimum Bend Radius 0.5 in [12.7 mm]
Repeated Minimum Bend Radius 1 in [25.4 mm]
Typical Flex Cycles 20
Tensile Strength 79 lbs [35.83 Kg]

Connectors

| Description | Connector 1 | Connector 2 |
|---------------------------------|-----------------------|-------------------------|
| Type | 4.1/9.5 Mini DIN Male | 4.1/9.5 Mini DIN Female |
| Mount Method | | Bulkhead |
| Specification | IEC 61169-11 | IEC 61169-11 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Silver | Brass, Silver |
| Dielectric Type | PTFE | PTFE |
| Body Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Material & Plating | Brass, Tri-Metal | |

Environmental Specifications
Temperature

Operating Range -40 to +85 deg C

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

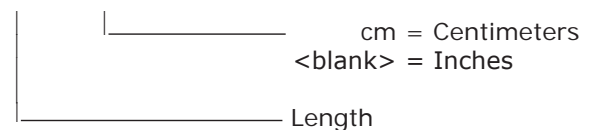
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2236 - xx uu



Example: FMCA2236-12 = 12 inches long cable
FMCA2236-100cm = 100 cm long cable

RA 4.1/9.5 Mini DIN Male to 4.1/9.5 Mini DIN Female Bulkhead Cable 1/4 inch Superflexible Coax in 100 Cm from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [RA 4.1/9.5 Mini DIN Male to 4.1/9.5 Mini DIN Female Bulkhead Cable 1/4 inch Superflexible Coax in 100 Cm FMCA2236-100CM](https://www.fairviewmicrowave.com/4.1-9.5-male-4.1-9.5-female-pe-1-4-sfhc-cable-assembly-FMCA2236-p.aspx)

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