

Low PIM RA NEX10 Male to NEX10 Female Bulkhead Cable 1/4 inch Superflexible Coax in 50 Cm

The RA NEX10 male to NEX10 female bulkhead 50 cm cable using 1/4 inch superflexible coax, part number FMCA2266-50CM, from Fairview Microwave is in-stock and ships same day. This Fairview NEX10 to NEX10 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. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -150 dBc. The FMCA2266-50CM NEX10 male to NEX10 female cable assembly operates to 6 GHz. The right angle NEX10 interface on the 1/4" Superflexible cable allows for easier connections in tight spaces. Our RF cable assembly with NEX10 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.) | 0.27 | 0.29 | 0.31 | 0.34 | 0.42 | 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:

- NEX10 Male Right Angle
- NEX10 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
- Low PIM Applications
- Distributed Antenna Systems (DAS)
- Low PIM Applications and PIM Testing

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Mechanical Specifications
Cable Assembly

Length* 19.68 in [499.87 mm]
 Diameter 0.62 in [15.75 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 | NEX10 Male | NEX10 Female |
| Mount Method | | Bulkhead |
| Specification | NEX10 | NEX10 |
| Impedance | 50 Ohms | 50 Ohms |
| Contact Material & Plating | Brass, Silver | |
| Dielectric Type | PTFE | PTFE |
| Outer Cond Material & Plating | | Bronze, Silver |
| Body Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |

Environmental Specifications
Temperature

Operating Range -40 to +85 deg C

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

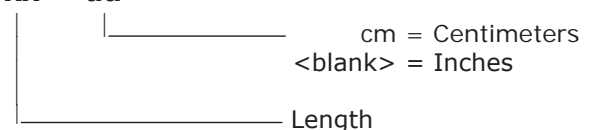
Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA2266 - xx uu



Example: FMCA2266-12 = 12 inches long cable
 FMCA2266-100cm = 100 cm long cable

Low PIM RA NEX10 Male to NEX10 Female Bulkhead Cable 1/4 inch Superflexible Coax in 50 Cm 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.

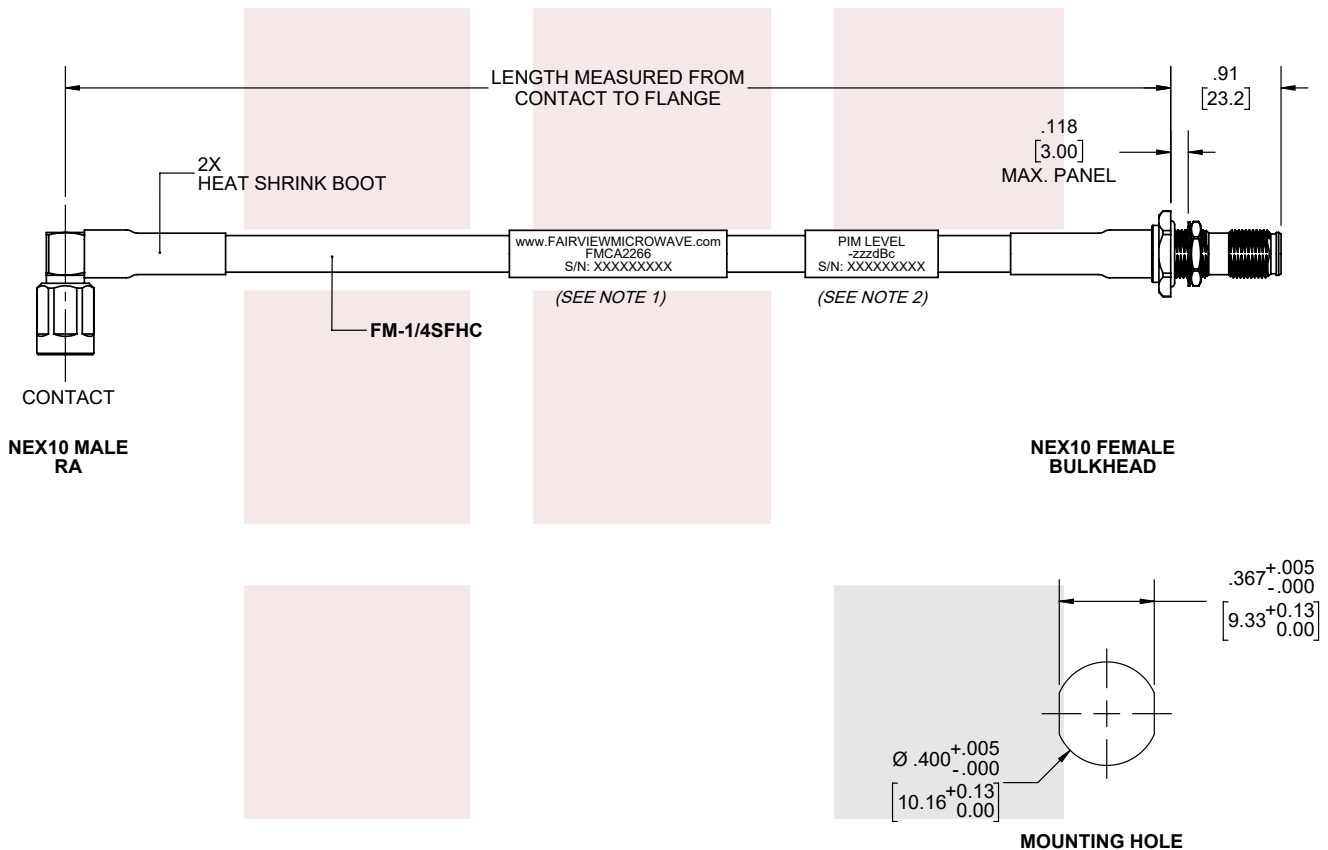
Click the following link to obtain additional part information: [Low PIM RA NEX10 Male to NEX10 Female Bulkhead Cable 1/4 inch Superflexible Coax in 50 Cm FMCA2266-50CM](#)

URL: <https://www.fairviewmicrowave.com/low-pim-ra-nex10-male-nex10-female-cable-fm-1-4-sfhc-coax-fmca2266-50cm-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.



| REVISIONS | | | |
|-----------|-----------------|-----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 1/22/2021 | S.ELLIS |



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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| <p>Fairview Microwave an INFINIT[®] brand</p> | UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS | | THIRD-ANGLE PROJECTION | |
| | TOLERANCES: | | CABLE LENGTH (L) TOLERANCES: | |
| TITLE Low PIM RA NEX10 Male to NEX10 Female Bulkhead Cable 1/4 inch Superflexible Coax in 50 Cm | .X = ±.2 [5.08] FRACTIONS ± 1/32 .XX = ±.02 [.51] ANGLES ± 1° .XXX = ±.005 [.13] | L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5%L / -0 | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. | |
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| SIZE A | CAGE CODE 3FKR5 | DRAWN BY K.DANG | ITEM NO. FMCA2266 | REV A |

T-Rev.D