

## Low PIM RA NEX10 Male to RA NEX10 Male Cable 1/4 inch Superflexible Coax in 60 Inch

The RA NEX10 male to RA NEX10 male 60 inch cable using 1/4 inch superflexible coax, part number FMCA2264-60, from Fairview Microwave is in-stock and ships same day. This Fairview NEX10 to NEX10 cable assembly has a male to male 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 FMCA2264-60 NEX10 male to NEX10 male cable assembly operates to 6 GHz. The right angle NEX10 interfaces on the 1/4" Superflexible cable allow 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  |              | 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]   |       | $\Omega$ /1000ft [ $\Omega$ /Km] |
| DC Resistance Outer Conductor |     | 2.53 [8.3]   |       | $\Omega$ /1000ft [ $\Omega$ /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.) | 0.38 | 0.43 | 0.49 | 0.58 | 0.83 | 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 0.3dB of connector loss.

### Mechanical Specifications

#### Cable Assembly

|          |                    |
|----------|--------------------|
| Length*  | 60 in [152.4 cm]   |
| Diameter | 0.47 in [11.94 mm] |



### Configuration:

- NEX10 Male Right Angle
- NEX10 Male Right Angle
- 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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**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                       | Helically 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 Male       |
| Specification              | NEX10            | NEX10            |
| 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 |

**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:

**FMCA2264 - xx uu**

\_\_\_\_\_ cm = Centimeters  
 \_\_\_\_\_ <blank> = Inches  
 \_\_\_\_\_ Length

Example: FMCA2264-12 = 12 inches long cable  
 FMCA2264-100cm = 100 cm long cable

Low PIM RA NEX10 Male to RA NEX10 Male Cable 1/4 inch Superflexible Coax in 60 Inch 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.

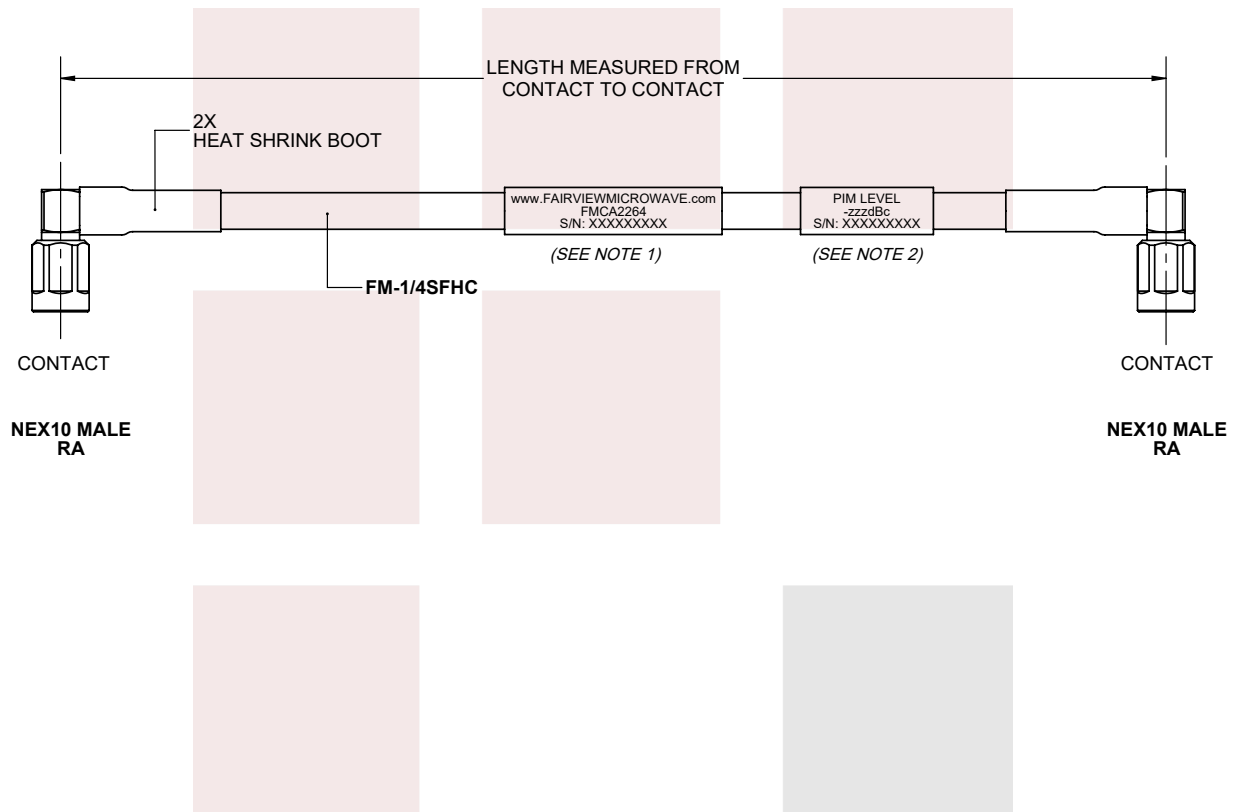
Click the following link to obtain additional part information: [Low PIM RA NEX10 Male to RA NEX10 Male Cable 1/4 inch Superflexible Coax in 60 Inch FMCA2264-60](https://www.fairviewmicrowave.com/low-pim-ra-nex10-male-ra-nex10-male-cable-fm-1-4-sfhc-coax-fmca2264-60-p.aspx)

URL: <https://www.fairviewmicrowave.com/low-pim-ra-nex10-male-ra-nex10-male-cable-fm-1-4-sfhc-coax-fmca2264-60-p.aspx>

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



**NOTES:**

- 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.
- 6" FROM CABLE END 1 PLACE FOR ALL LENGTHS OF CABLE.

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| Low PIM RA NEX10 Male to RA NEX10 Male Cable 1/4 inch Superflexible Coax in 60 Inch                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |       |     |                                                                                                                                                                                                                                                                   |  |
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| SIZE                                                                                                                                                                                            | CAGE CODE | DRAWN BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ITEM NO. |       | REV |                                                                                                                                                                                                                                                                   |  |
| A                                                                                                                                                                                               | 3FKR5     | K.DANG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | FMCA2264 |       | A   |                                                                                                                                                                                                                                                                   |  |

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