

## NEX10 Male to NEX10 Male Cable SPF-250 Coax in 24 Inch

The NEX10 male to NEX10 male 24 inch cable using SPF-250 coax, part number FMC00348-24, 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 SPF-250 coax. Fairview Microwave's corrugated RF cable assemblies are ideal for applications where durability and high power are needed. The FMC00348-24 NEX10 male to NEX10 male 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 | 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 (Max.) | 0.25 | 0.26 | 0.29 | 0.36 | 0.53 | dB    |

#### Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax used in this assembly. Insertion Loss is estimated as 0.1 dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length\* 24 in [609.6 mm]  
Diameter 0.473 in [12.01 mm]

#### Cable

Cable Type SPF-250  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Aluminum  
Dielectric Type Foam PE  
Number of Shields 1  
Outer Conductor Material and Plating Copper



### Configuration:

- NEX10 Male
- NEX10 Male
- SPF-250

### Features:

- Max Frequency 5.8 GHz
- Low PIM: -160 dBc Max
- 83% Phase Velocity
- FRPE Jacket
- 500 Mating Cycles

### Applications:

- General Purpose
- Laboratory Use

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|                              |                       |
|------------------------------|-----------------------|
| Jacket Material              | FRPE, 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                            | NEX10 Male       | NEX10 Male       |
| Impedance                       | 50 Ohms          | 50 Ohms          |
| Mating Cycles                   | 500              | 500              |
| Contact Material & Plating      | Brass, Silver    | Brass, Silver    |
| Contact Plating Spec.           | 100 μin          | 100 μin          |
| Dielectric Type                 | PTFE             | PTFE             |
| Body Material & Plating         | Brass, Tri-Metal | Brass, Tri-Metal |
| Body Plating Spec.              | 100 μin          | 100 μin          |
| Coupling Nut Material & Plating | Brass, Tri-Metal | Brass, Tri-Metal |
| Coupling Nut Plating Spec.      | 100 μin          | 100 μin          |

## Environmental Specifications

### Temperature

Operating Range -40 to +85 deg C

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

## Plotted and Other Data

Notes:

- Values at 25°C, sea level.

## How to Order

Part Number Configuration:

**FMC00348 - xx uu**

cm = Centimeters  
<blank> = Inches

Length

Example: FMC00348-12 = 12 inches long cable  
FMC00348-100cm = 100 cm long cable

NEX10 Male to NEX10 Male Cable SPF-250 Coax in 24 Inch 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.

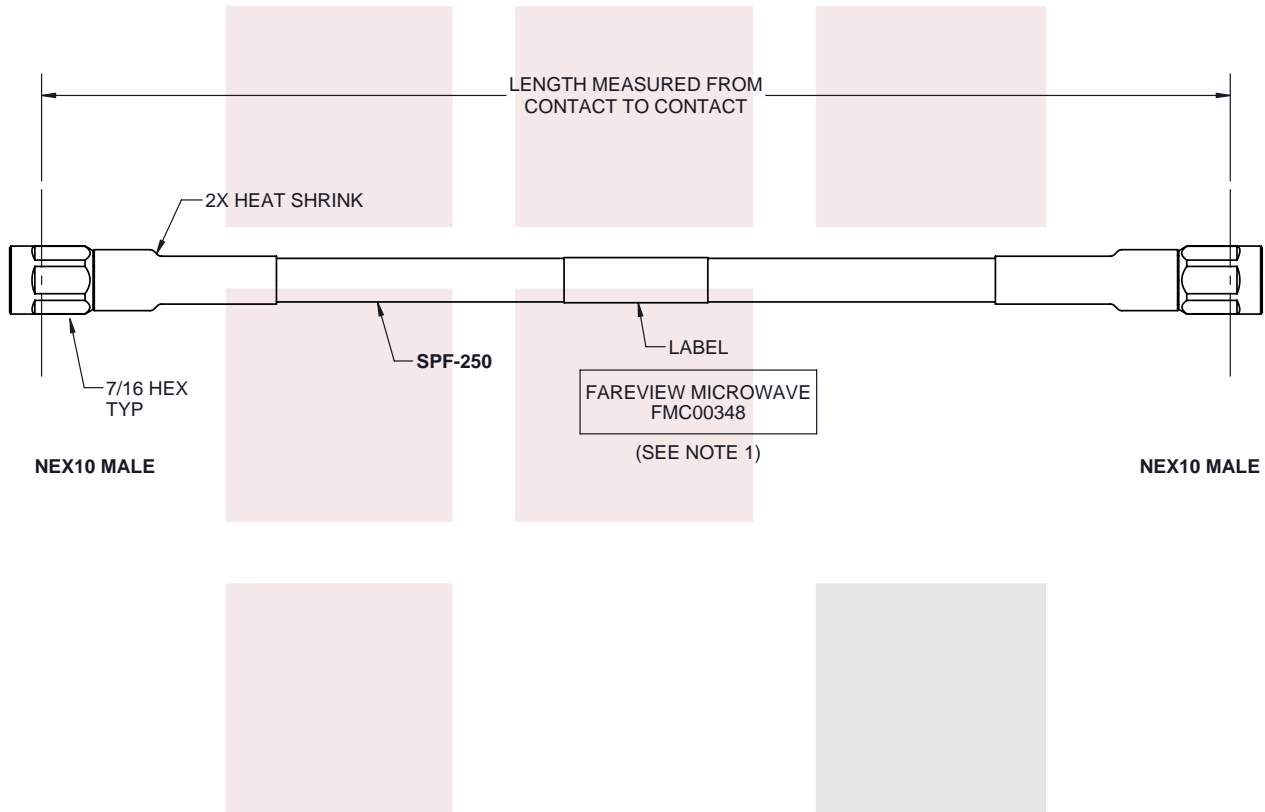
Click the following link to obtain additional part information: [NEX10 Male to NEX10 Male Cable SPF-250 Coax in 24 Inch FMC00348-24](#)

URL: <https://www.fairviewmicrowave.com/nex10-male-nex10-male-cable-spf250-coax-fmc00348-24-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 | 09/15/20 | SELLIS   |



**NOTES:**

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.  
CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END 6.0" FROM THE END OF THE CONNECTOR.

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|   |   |   |                              |   |  |
|---|---|---|------------------------------|---|--|
| <p><b>Fairview Microwave</b><br/>an INFINIT<sup>®</sup> brand</p>                             | UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |   | THIRD-ANGLE PROJECTION<br>   |   |  |
|   | TOLERANCES:   |   | CABLE LENGTH (L) TOLERANCES: |   |  |
| .X = ±.2 [5.08] FRACTIONS ± 1/32<br>.XX = ±.02 [.51] ± 1/32<br>.XXX = ±.005 [.13] ANGLES ± 1° |   | L ≤ 12 [305] = +1 [25] / -0<br>12 [305] < L ≤ 60 [1524] = +2 [51] / -0<br>60 [1524] < L ≤ 120 [3048] = +4 [102] / -0<br>120 [3048] < L ≤ 300 [7620] = +6 [152] / -0<br>300 [7620] < L = +5%L / -0 |                              | THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. |  |
| TITLE<br>NEX10 Male to NEX10 Male Cable SPF-250 Coax in 24 Inch                               |   |   | SHEET 1 OF 1                 |   |  |
| ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.  |   |   | SCALE<br>N/A                 |   |  |
| SIZE<br>A   | CAGE CODE<br>3FKR5  | DRAWN BY<br>BPUCHASKI   | ITEM NO.<br>FMC00348         | REV<br>A  |  |

T-Rev.D