

## NEX10 Male to NEX10 Male Cable SPF-250 Coax in 36 Inch

The NEX10 male to NEX10 male 36 inch cable using SPF-250 coax, part number FMC00348-36, 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 FMC00348-36 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.)	0.28	0.29	0.33	0.45	0.7	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*	36 in [914.4 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 $\mu$ in	100 $\mu$ in
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Spec.	100 $\mu$ in	100 $\mu$ in
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Plating Spec.	100 $\mu$ in	100 $\mu$ in

**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

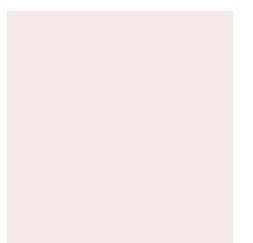
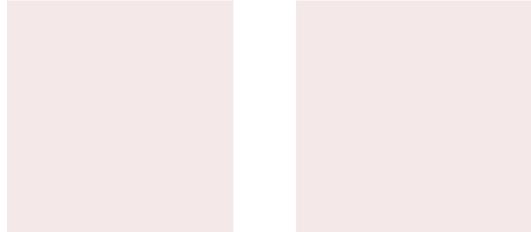
 Example: FMC00348-12 = 12 inches long cable  
 FMC00348-100cm = 100 cm long cable

NEX10 Male to NEX10 Male Cable SPF-250 Coax in 36 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.

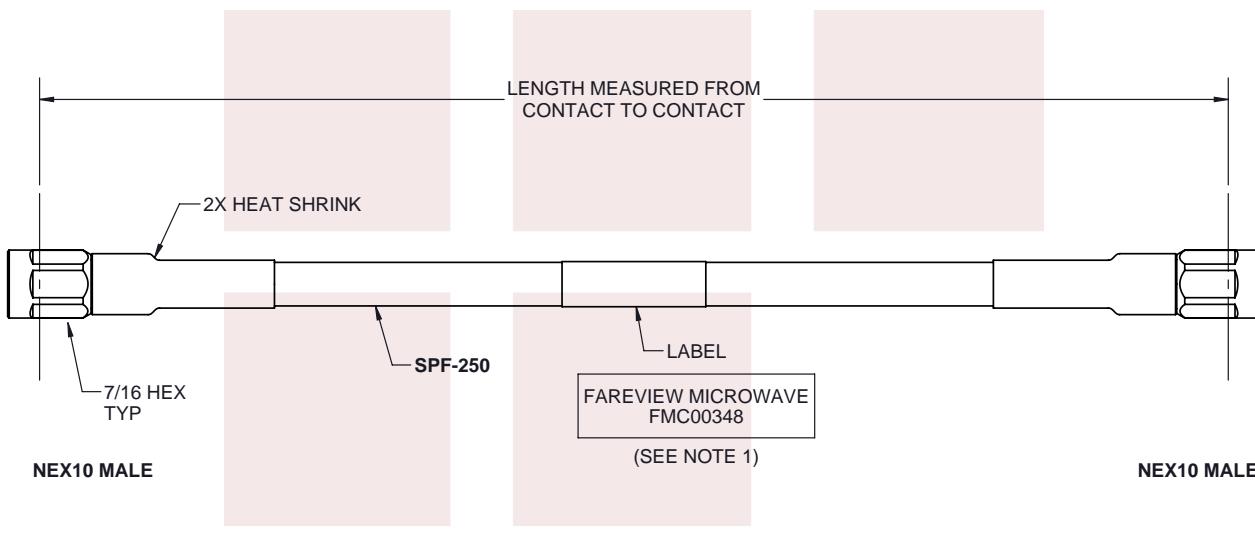
Click the following link to obtain additional part information: [NEX10 Male to NEX10 Male Cable SPF-250 Coax in 36 Inch FMC00348-36](#)

URL: <https://www.fairviewmicrowave.com/nex10-male-nex10-male-cable-spf250-coax-fmc00348-36-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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	TOLERANCES:	CABLE LENGTH (L) TOLERANCES:	
	.X = ± 2 [5.08] .XX = ± .02 [.51] .XXX = ± .005 [.13]	FRACTIONS ± 1/32 ANGLES ± 1°	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
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			SCALE N/A
SIZE A	CAGE CODE 3FKR5	DRAWN BY BPUCHASKI	ITEM NO. FMC00348
			REV A

T-Rev.D