

## N Male Low PIM Connector Solder Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Cable

Type N male connector with solder/solder attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250 and SPF-250, part number FMCN1704, from Fairview Microwave is in-stock and ships same day. This type N male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.15:1. The type N male connector also has low passive intermodulation (PIM) of -160 dBc.

Fairview's type N male connector FMCN1704 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.15:1	
Passive Intermodulation			-160	dBc
DWV (AC)			750	Vrms

### Mechanical Specifications

<b>Size</b>	
Length	0.94 in [23.88 mm]
Width/Dia.	0.85 in [21.59 mm]
Weight	0.11 lbs [49.9 g]

### Material Specifications

Description	Material	Plating
Contact	Brass	Silver
Insulation	PTFE	
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal

Mechanical Specification Notes:  
Interface Conforms to IEC 61169-16

### Environmental Specifications

#### Temperature

Operating Range -40 to +155 deg C

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

### Plotted and Other Data

Notes:



### Configuration:

- N Male Connector
- 50 Ohms
- Straight Body Geometry
- FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Interface Type
- Solder/Solder Attachment
- Low PIM Design

### Features:

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.15:1
- PIM levels better than -160 dBc
- Silver Plated Brass Contact

### Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

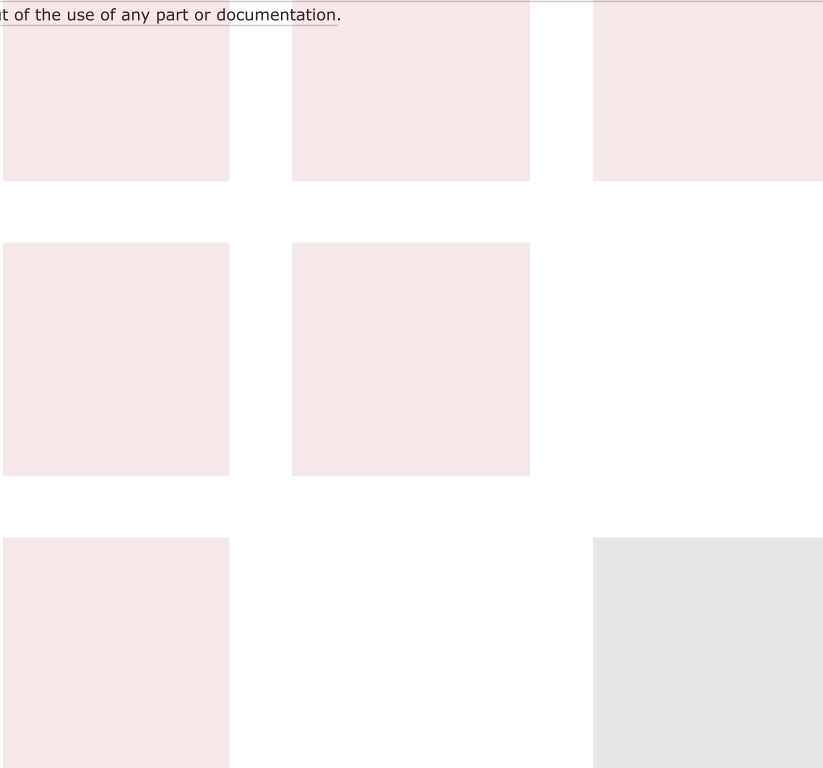
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N Male Low PIM Connector Solder Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

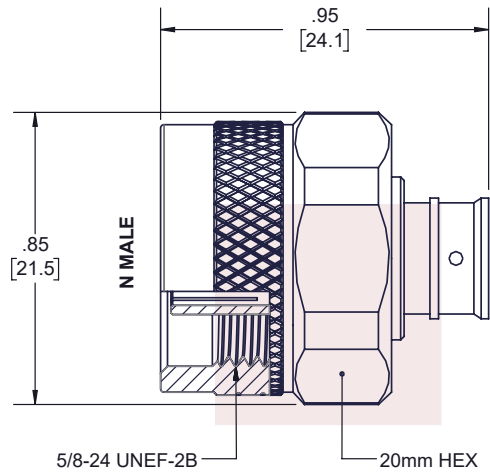
For additional information on this product, please click the following link: [N Male Low PIM Connector Solder Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Cable FMCN1704](#)

URL: <https://www.fairviewmicrowave.com/n-male-spp-250-llpl-spo-250-spf-250-connector-fmcn1704-p.aspx>

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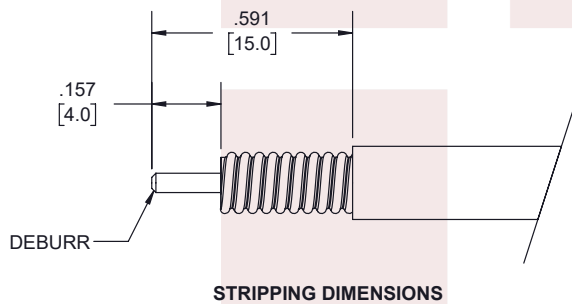
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/11/2021	S.ELLIS



PTFE  
INSULATOR

CONTACT

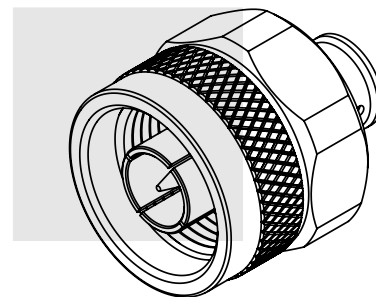
SPACER



STRIPPING DIMENSIONS

NOTES:

- CABLE ATTACHMENT:
  - OUTER: SOLDER.
  - INNER: SOLDER.



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TITLE

N Male Low PIM Connector Solder Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Cable

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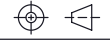
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	K.DANG	FMCN1704	A

T-Rev.D

## RA SMA Male Low PIM Connector Solder Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Cable

RA SMA male connector with solder/solder attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250 and SPF-250, part number FMCN1719, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.35:1. The SMA male connector also has low passive intermodulation (PIM) of -155 dBc. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA SMA male connector FMCN1719 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.35:1	
Passive Intermodulation			-155	dBc
DWV (AC)			750	Vrms

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 3	3 to 6				GHz
VSWR, Max	1.25:1	1.35:1				

### Mechanical Specifications

<b>Size</b>	
Length	0.77 in [19.56 mm]
Width/Dia.	0.36 in [9.14 mm]
Weight	0.02 lbs [9.07 g]

### Material Specifications

Description	Material	Plating
Contact	Brass	Silver
Insulation	PTFE	
Body	Brass	Tri-Metal
Coupling Nut	Brass	Tri-Metal
O-Ring	Silicone	



### Configuration:

- SMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Interface Type
- Solder/Solder Attachment
- Low PIM Design

### Features:

- Operating Frequency of 6 GHz Max.
- Good VSWR of 1.35:1
- PIM levels better than -155 dBc
- Silver Plated Brass Contact

### Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

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[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

## Environmental Specifications

### Temperature

Operating Range -40 to +155 deg C

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

## Plotted and Other Data

Notes:

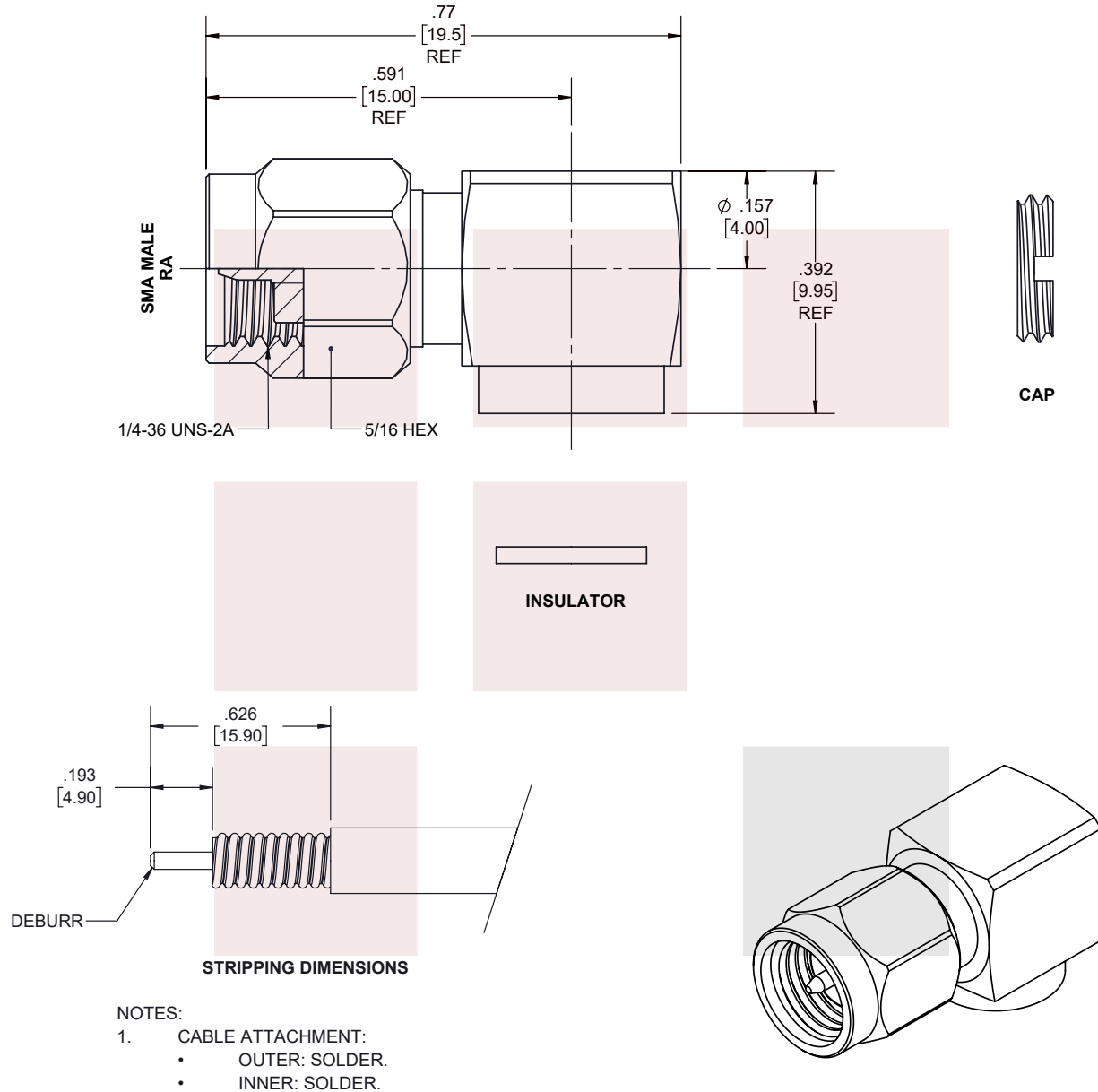
RA SMA Male Low PIM Connector Solder Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [RA SMA Male Low PIM Connector Solder Attachment for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250 Cable FMCN1719](#)

URL: <https://www.fairviewmicrowave.com/sma-male-spp-250-llpl-spo-250-spf-250-connector-fmcn1719-p.aspx>

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A	INITIAL RELEASE	1/13/2021	S.ELLIS



**NOTES:**

- CABLE ATTACHMENT:
  - OUTER: SOLDER.
  - INNER: SOLDER.

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TITLE

RA SMA Male Low PIM Connector Solder Attachment  
for FM-1/4SFHC, SPP-250-LLPL, SPO-250, SPF-250  
Cable

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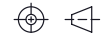
**TOLERANCES:**

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**THIRD-ANGLE PROJECTION**



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SHEET 1 OF 1

SCALE N/A

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SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	K.DANG	FMCN1719	A

T-Rev.D

## SPP-250-LLPL Low Loss Corrugated Coax Cable Blue FEP Jacket Superflexible

### Times Microwave Systems Coax Cable Specification

SPP-250-LLPL low loss plenum rated coax cable by Times Microwave is in-stock and ships same day. The SPP-250-LLPL coaxial cable features a low loss dielectric, solid copper center conductor and a helically corrugated, copper outer conductor. These features combine to make the Times Microwave SPP-250-LLPL an extremely flexible, low PIM coax cable, ideally suited for Small Cells, Distributed Antenna Systems (DAS) or other plenum installations. The tough jacket, made from an FEP fluoropolymer, provides moisture and UV protection.

A datasheet and specifications for Times Microwave SPP-250-LLPL coax cable, supplied by Fairview Microwave, are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave components allows designers to configure and customize their signal connections however they like. For providing low PIM jumper connections, low PIM feeder cables or connecting Small Cells, Fairview Microwave has the right cables for the job.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		5.8	GHz
Impedance		50		Ohms
Velocity of Propagation		76		%
Shielding Effectiveness	100			dB
Passive Intermodulation			-160	dBc
Inner Conductor DC Resist.			3	Ohms/1000ft
Nominal Capacitance		29 [95.14]		pF/ft [pF/m]
Nominal Inductance		0.067 [0.22]		uH/ft [uH/m]

### Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.45	1.9	2.3	4.9	5.8	GHz
Attenuation, Typ	3.8 12.47	8.1 26.57	9 29.53	13.5 44.29	14.8 48.56	dB/100ft dB/100m
Power In (CW), Max	1,010	470	430	280	260	Watts

### Mechanical Specifications

Diameter	0.28 in [7.11 mm]
Min. Bend Radius (Installation)	1.25 in [31.75 mm]
Bending Moment	0.8 lbs-ft [1.08 N-m]

### Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper, 1 Strands	0.068 in [1.73 mm]



### Configuration:

- Low Loss, Plenum Corrugated Cable

### Features:

- UL910 Plenum Rated Cable
- PIM < -160 dBc
- Excellent Shielding >100 dB
- Lightweight and Extremely Flexible
- Low Loss
- UV Resistant Jacket

### Applications:

- Small Cells
- Distributed Antenna Systems (DAS)
- Plenum Installations
- PIM Testing
- Multi-Carrier Communication Systems

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[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

Conductor Type	Solid	
Dielectric	PTFE	0.19 in [4.83 mm]
Outer Conductor	Copper Corrugated	0.25 in [6.35 mm]
Jacket	FEP, Blue	0.28 in [7.11 mm]

## Environmental Specifications

### Temperature

Operating Range -55 to +200 deg C

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

## Plotted and Other Data

Notes:

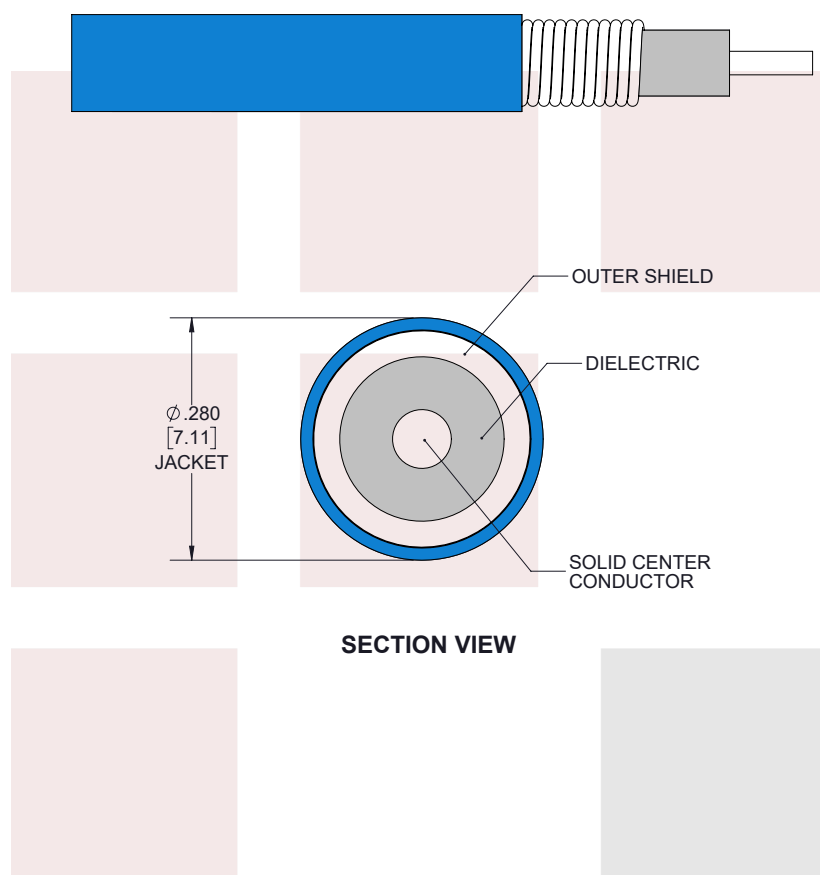
SPP-250-LLPL Low Loss Corrugated Coax Cable Blue FEP Jacket Superflexible from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [SPP-250-LLPL Low Loss Corrugated Coax Cable Blue FEP Jacket Superflexible SPP-250-LLPL](#)

URL: <https://www.fairviewmicrowave.com/spp250llpl-low-loss-corrugated-coax-cable-fep-jacket-spp-250-llpl-p.aspx>

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**STANDARD TOLERANCES**

.X	±0.2
.XX	±0.01
.XXX	±0.005

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES

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TITLE SPP-250-LLPL Low Loss Corrugated Coax Cable Blue FEP Jacket Superflexible SECTION VIEW	DWG NO SPP-250-LLPL			CAGE CODE 3FKR5		
	CAD FILE 022118	SHEET 1 OF 1	SCALE N/A	SIZE A	7361	