

## Low PIM SMA Male to 7/16 DIN Male LSZH Jacketed Cable 0.141 Formable Low PIM Coax with LF Solder

The SMA male to 7/16 DIN male cable using 0.141 Formable low PIM coax, part number FMC0215951, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to 7/16 DIN cable assembly has a male to male gender configuration with 50 ohm flexible 0.141 formable low PIM coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. Our low PIM design offers excellent passive intermodulation performance with PIM levels better than -150 dBc. The FMC0215951 SMA male to 7/16 DIN male cable assembly operates to 3 GHz. Fairview's Low PIM formable cable assemblies are constructed using high quality formable 0.141" and 0.250" tin filled braid coax. These low PIM cable assemblies offer excellent Passive Intermodulation performance of -160 dBc and are 100% RF and PIM tested at the time of production. Built with a Low Smoke Zero Halogen jacket these assemblies are optimized for in building requirements. There are 26 low PIM cable assembly configurations available including 4.1/9.5 Mini DIN, 7/16 DIN, Type N and SMA series in 100cm and 200cm standard legths.

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		3	GHz
VSWR			1.15:1	
Return Loss			23.13	dB
RF Shielding	-100			dB
Passive Intermodulation			-150	dBc
Input Power (Average)			440	Watts

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	2	2.5	3	GHz
Insertion Loss (Typ.)	0.083	0.125	0.183	0.21	0.229	dB/ft
	0.27	0.41	0.6	0.69	0.75	dB/m
Power Handling (Max.)	440	300	220	190	170	W

### Mechanical Specifications

#### Cable Assembly

Length\* 0 in [0 mm]

#### Cable

Cable Type 0.141 Formable Low PIM  
Impedance 50 Ohms  
Inner Conductor Material and Plating Copper, Silver



### Configuration:

- SMA Male
- 7/16 DIN Male
- 0.141 Formable Low PIM

### Features:

- Max Frequency 3 GHz
- Low PIM: -150 dBc Max
- Shielding Effectivity > -100 dB
- PVC LSZH Jacket
- 0.141" and 0.250" Formable Cable
- LSZH (Low Smoke Zero Halogen) PVC Jacket
- -160 dBc for Type N, 4.1/9.5 DIN, 7/16 DIN versions
- -150 dBc for SMA versions
- >-100 dB RF Shielding
- DC to 3 GHz and DC to 6 GHz configurations
- 100% PIM and RF tested

### Applications:

- General Purpose
- Laboratory Use
- Low PIM Applications
- Communications Connectivity requirements
- Low PIM applications
- Test equipment and rack systems
- Low PIM Lab Testing

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Dielectric Type	PTFE
Outer Conductor Material and Plating	Copper, Tin
Jacket Material	PVC LSZH
Jacket Diameter	0.163 in [4.14 mm]

One Time Minimum Bend Radius	1.5 in [38.1 mm]
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### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	7/16 DIN Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Silver	Brass, Silver
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	5/16 inch	1 1/4 inch

### Environmental Specifications

#### Temperature

Operating Range	-55 to +125 deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

### How to Order

Part Number Configuration:

**FMC0215951 - xx uu**

cm = Centimeters  
 <blank> = Inches  
 Length

Example: FMC0215951-12 = 12 inches long cable  
 FMC0215951-100cm = 100 cm long cable

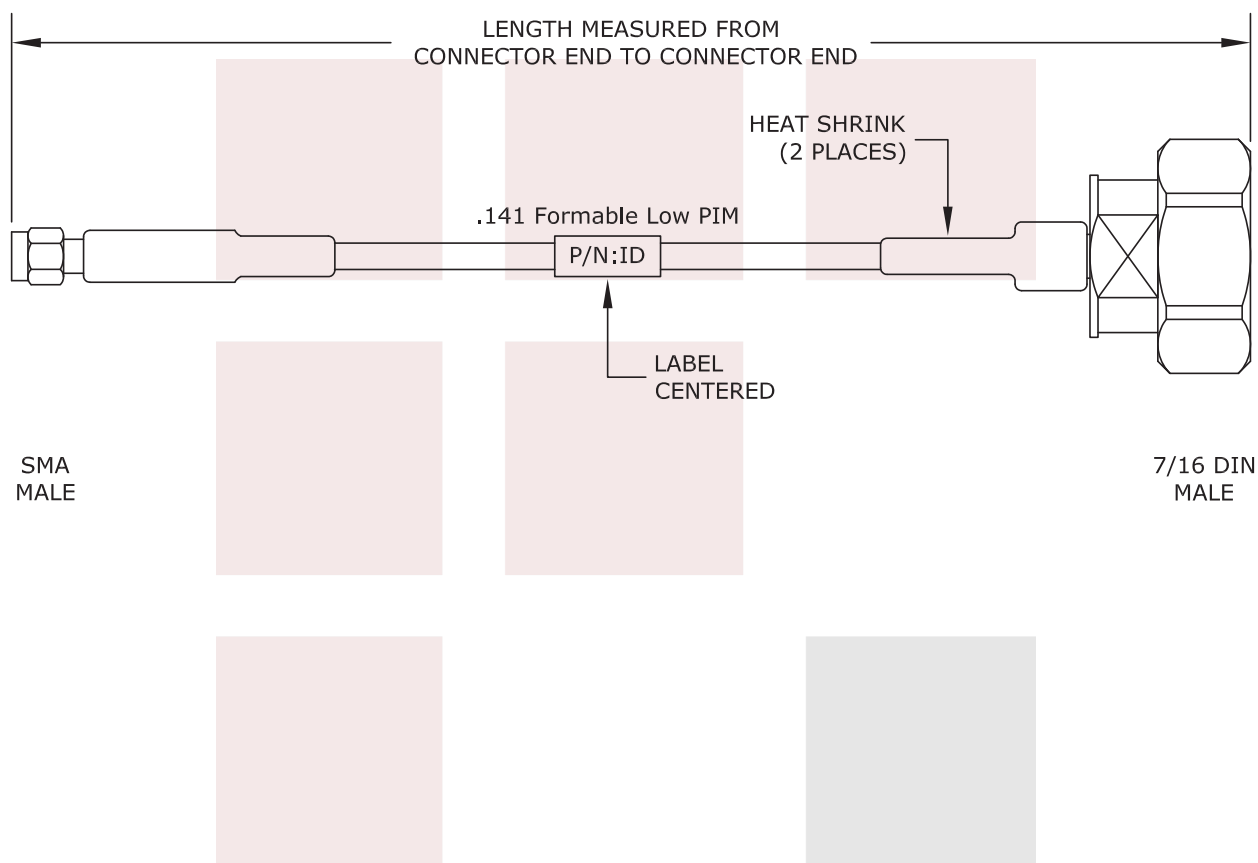
Low PIM SMA Male to 7/16 DIN Male LSZH Jacketed Cable 0.141 Formable Low PIM Coax with LF Solder from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low PIM SMA Male to 7/16 DIN Male LSZH Jacketed Cable 0.141 Formable Low PIM Coax with LF Solder FMC0215951](https://www.fairviewmicrowave.com/sma-male-7-16-male-cable-0.141-formable-low-pim-coax-fmc0215951-p.aspx)

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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.





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TITLE Low PIM SMA Male to 7/16 DIN Male LSZH Jacketed Cable 0.141 Formable Low PIM Coax with LF Solder		DWG NO <b>FMC0215951</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	120314	SHEET	SCALE	N/A	SIZE A 2233