

## Low PIM N Male to N Male LSZH Jacketed Cable 0.141 Formable Low PIM Coax and RoHS Compliant

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.

### Electrical Specifications

|                         |             |
|-------------------------|-------------|
| Frequency Range         | DC to 6 GHz |
| Impedance               | 50 Ohms     |
| Max VSWR                | 1.25:1      |
| Max Return Loss         | 19.08 dB    |
| RF Shielding            | -100 dB     |
| Max Input Power         | 440 Watts   |
| Passive Intermodulation | -160 dBc    |

### Performance by Frequency

| Description            | F1      | F2       | F3      | F4    | F5 |
|------------------------|---------|----------|---------|-------|----|
| Frequency              | 500 MHz | 1000 MHz | 2.5 GHz | 6 GHz |    |
| Insertion Loss (dB/ft) | 0.083   | 0.125    | 0.21    | 0.36  |    |
| (dB/m)                 | 0.27    | 0.41     | 0.69    | 1.18  |    |
| Power Handling         | 440 W   | 300 W    | 190 W   | 110 W |    |

### Mechanical Specifications

#### Temperature

Temperature Operating Range -55 to +125 deg C

#### Size

One Time Minimum Bend Radius 1.5 in [38.1 mm]

#### Cable

| Description           | Cable                  |
|-----------------------|------------------------|
| Cable Type            | 0.141 Formable Low PIM |
| Cable Inner Conductor | Copper, Silver         |
| Cable Outer Conductor | Copper, Tin            |
| Dielectric Type       | PTFE                   |
| Jacket Material       | PVC LSZH               |
| Jacket Diameter       | 0.163 in [4.14 mm]     |



### Configuration:

- N Male
- N Male
- 0.141 Formable Low PIM

### Features:

- 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:

- Communications Connectivity requirements
- Low PIM applications
- Test equipment and rack systems
- Low PIM Lab Testing

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## Connectors

| Description                        | Connector 1      | Connector 2      |
|------------------------------------|------------------|------------------|
| Type                               | N Male           | N Male           |
| Configuration                      | Straight         | Straight         |
| Inner Conductor Material & Plating | Brass, Silver    | Brass, Silver    |
| Coupling Nut Material & Plating    | Brass, Tri-Metal | Brass, Tri-Metal |
| Hex Size                           | 3/4 inch         | 3/4 inch         |
| Body Material & Plating            | Brass, Silver    | Brass, Silver    |
| Dielectric Type                    | PTFE             | PTFE             |

## Compliance Certifications (visit [www.FairviewMicrowave.com](http://www.FairviewMicrowave.com) for current document)

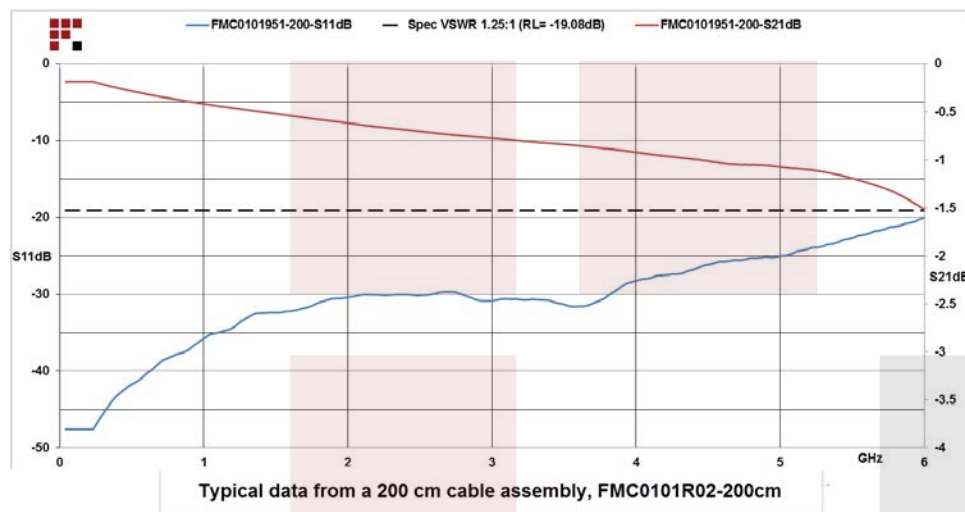
RoHS Compliant

Yes

Notes:

- Values at +25 °C, sea level

## Typical Performance Data

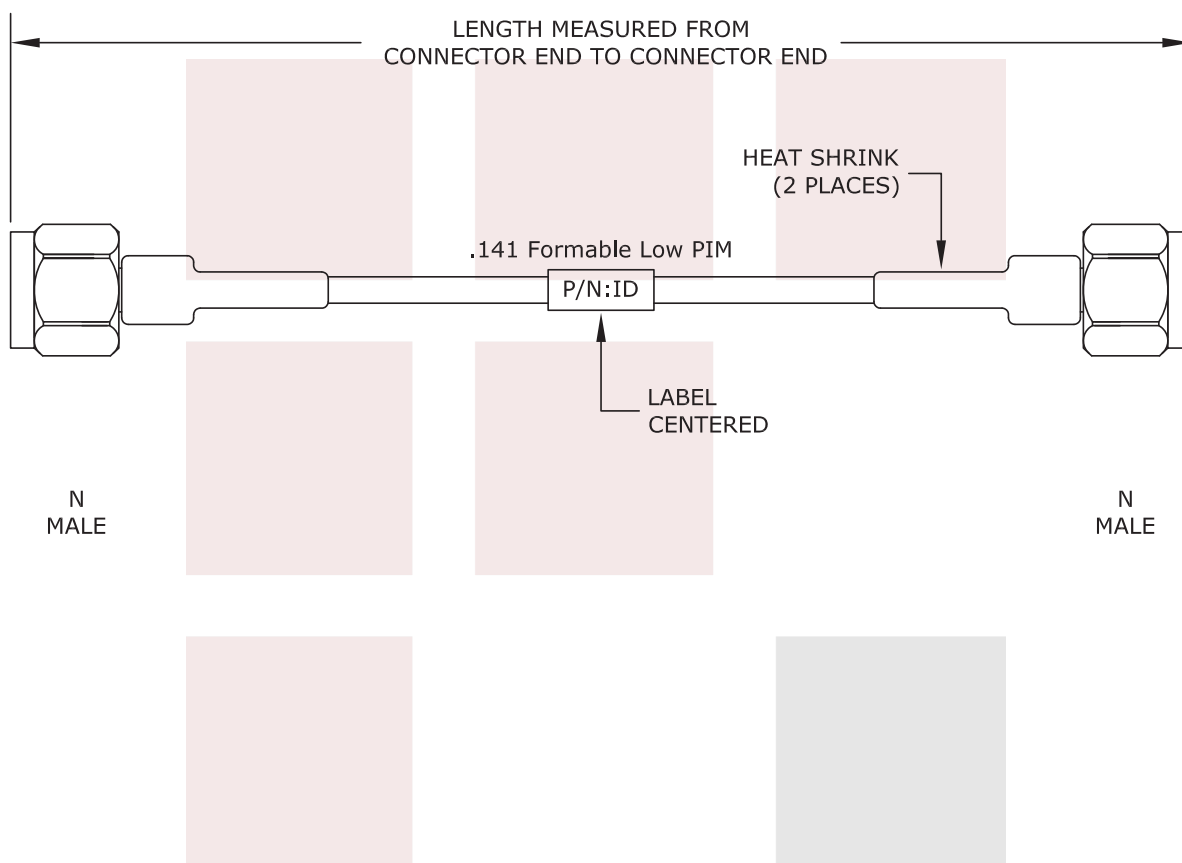


Low PIM N Male to N Male LSZH Jacketed Cable 0.141 Formable Low PIM Coax and RoHS Compliant from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low PIM N Male to N Male LSZH Jacketed Cable 0.141 Formable Low PIM Coax and RoHS Compliant FMC0101951-XX](http://www.fairviewmicrowave.com/n-male-n-male-cable-0.141-formable-low-pim-coax-fmc0101951-xx-p.aspx)

URL: <http://www.fairviewmicrowave.com/n-male-n-male-cable-0.141-formable-low-pim-coax-fmc0101951-xx-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.



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|---------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------|-------------|
| <b>FAIRVIEW MICROWAVE INC.</b><br>ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM                             |        | NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm]. |       |                           |             |
| TITLE<br>Low PIM N Male to N Male LSZH Jacketed Cable 0.141<br>Formable Low PIM Coax and RoHS Compliant |        | DWG NO<br><b>FMC0101951</b>                                                                                                                                                         |       | CAGE CODE<br><b>3FKR5</b> |             |
| CAD FILE                                                                                                | 120314 | SHEET                                                                                                                                                                               | SCALE | N/A                       | SIZE A 2233 |