

Low PIM N Male to N Male Cable 1/2" Superflexible Coax

Fairview's corrugated cable assemblies are ideal for applications where durability and high power are needed. These high quality 50 ohm cable assemblies are constructed with a solid copper clad aluminum inner conductor, a foam dielectric, corrugated copper tube outer conductor, and a tough polyethylene jacket. The solid inner and outer conductors are design to help minimize Intermodulation Distortion (IMD) in communications applications. Injected molded boots on the connectors add durability and strain relief. Our carefully selected assemblies provide the highest quality on the market with PIM ratings of -160 dBc and 1.11 VSWR's. Available in 1/2" Flexible and 1/2" Superflexible cable types in 7/16 DIN and N Type connector configurations.

Electrical Specifications

Frequency Range	DC to 2.7 GHz
Impedance	50 Ohms
Max VSWR	1.11:1
Max Return Loss	26 dB
Velocity of Propagation	83 %
RF Shielding	120 dB
Peak Power	16 KWatts
Passive Intermodulation	-160 dBc

Performance by Frequency

Description	F1	F2	F3	F4	F5
Frequency	900 MHz	1.8 GHz	2.2 GHz	2.7 GHz	
VSWR	1.07:1	1.09:1	1.09:1	1.11:1	
Return Loss (dB)	30	28	28	26	
Insertion Loss (dB/ft)	0.03	0.05	0.05	0.06	
(dB/m)	0.1	0.16	0.16	0.2	

Mechanical Specifications

Temperature	
Temperature Operating Range	-40 to +80 deg C
Size	
Diameter	0.78 in [19.81 mm]
Cable Color	Black
One Time Minimum Bend Radius	0.6 in [15.24 mm]
Repeated Minimum Bend Radius	1.18 in [29.97 mm]



Configuration:

- N Male
- N Male
- 1/2" Superflexible

Features:

- 1/2" Flexible and 1/2" Superflexible cable options
- 100% RF and PIM tested
- Low Insertion loss
- Low VSWR up to 2.7 GHz
- -160 dBc PIM rating
- Velocity of Propagation of 88%

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Cable

Description	Cable
Cable Type	1/2" Superflexible
Inner Conductor Type	Solid
Cable Inner Conductor	Copper Clad Aluminum
No of Shields	1
Dielectric Type	PE (F)
Jacket Material	PE
Jacket Diameter	0.535 in [13.59 mm]

Connectors

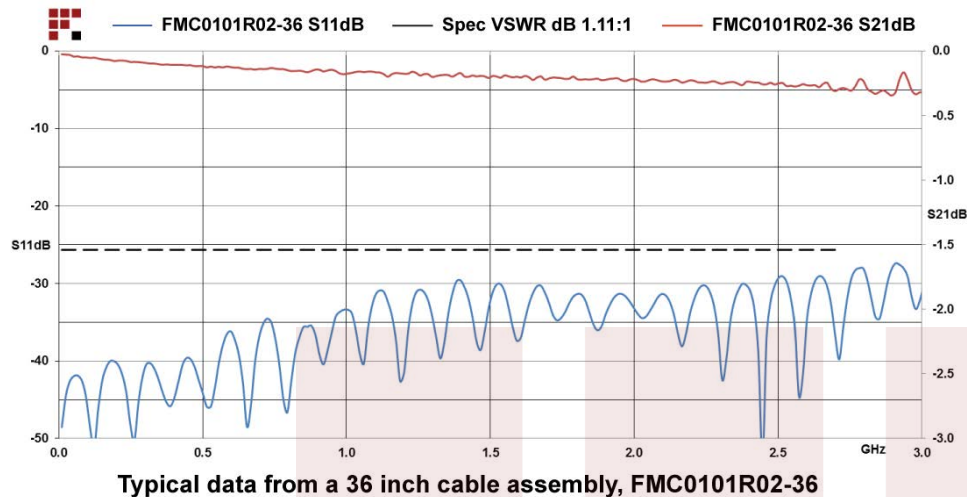
Description	Connector 1	Connector 2
Type	N Male	N Male
Configuration	Straight	Straight
Mating Cycles	500	500
Inner Conductor Material & Plating	Brass, Silver	Brass, Silver
Outer Conductor Material & Plating	Brass, Silver	Brass, Silver
Coupling Nut Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal
Hex Size	18 mm	18 mm
Torque	9.7 in-lbs [1.1 Nm]	9.7 in-lbs [1.1 Nm]
Body Material & Plating	Brass, Silver	Brass, Silver
Dielectric Type	PTFE	PTFE

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

Notes:

- Values at +25 °C, sea level

Typical Performance Data

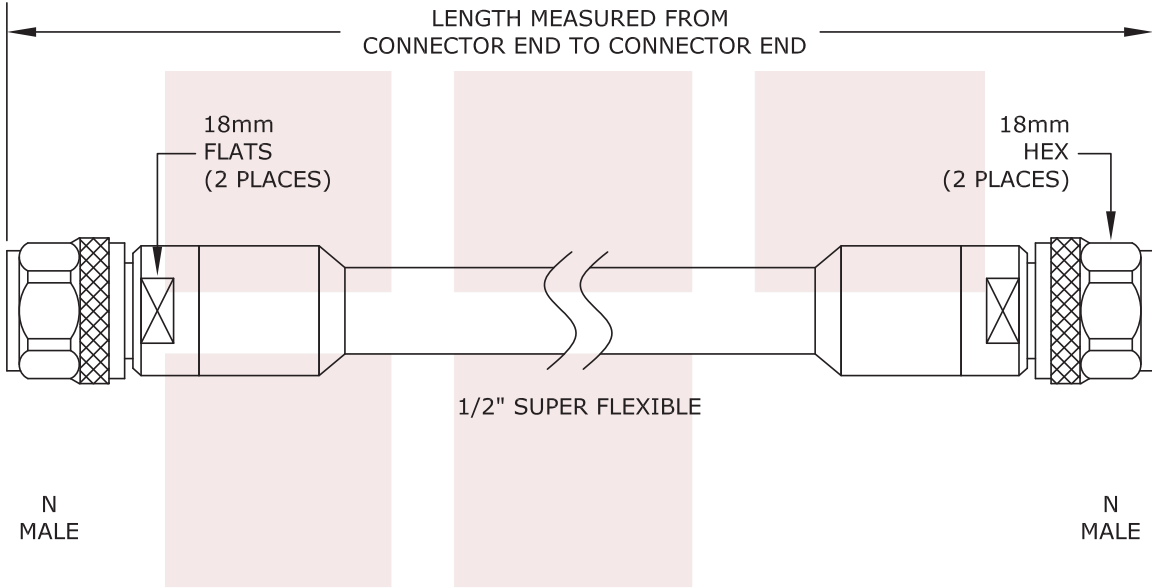


Low PIM N Male to N Male Cable 1/2" Superflexible Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Low PIM N Male to N Male Cable 1/2" Superflexible Coax FMC0101R02-XX](#)

URL: <http://www.fairviewmicrowave.com/n-male-n-male-cable-1-2-inch-superflexible-coax-fmc0101r02-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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TITLE Low PIM N Male to N Male Cable 1/2" Superflexible Coax	DWG NO FMC0101R02		CAGE CODE 3FKR5		
	CAD FILE 120314	SHEET	SCALE N/A	SIZE A	2233