

Precision SMA Female to N Male Cable FM-F141 Coax with LF Solder

The SMA female to type N male cable using FM-F141 coax, part number FMCA1230, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to type N cable assembly has a female to male gender configuration with 50 ohm flexible FM-F141 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA1230 SMA female to type N male cable assembly operates to 18 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 110 dB.

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		18	GHz
VSWR			1.4:1	
Velocity of Propagation		70		%
RF Shielding	110			dB
Capacitance		29.4 [96.46]		pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	1	2	4.5	9	18	GHz
Insertion Loss (Max.)	0.13	0.18	0.27	0.42	0.64	dB/ft
	0.43	0.59	0.89	1.38	2.1	dB/m
VSWR (Max.)	1.4:1	1.4:1	1.4:1	1.4:1	1.4:1	

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as .05dB x SQRT(Frequency GHz) per connector.

Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable Type FM-F141
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper Clad Steel, Silver
 Dielectric Type PTFE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Tape
 Shield Layer 2 Silver Plated Copper Braid



Configuration:

- SMA Female
- N Male
- FM-F141

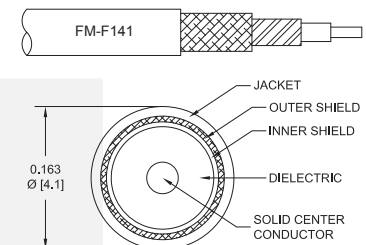
Features:

- Max Frequency 18 GHz
- Shielding Effectivity > 110 dB
- 70% Phase Velocity
- Double Shielded
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use

Cable Diagram:



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Jacket Material FEP
 Jacket Diameter 0.163 in [4.14 mm]
 One Time Minimum Bend Radius 0.8 in [20.32 mm]

Connectors

Description	Connector 1	Connector 2
Type	SMA Female	N Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating	Passivated Stainless Steel	
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material & Plating		Passivated Stainless Steel

Environmental Specifications
Temperature

Operating Range -55 to +125 deg C

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

FMCA1230 - xx uu

Example: FMCA1230-12 = 12 inches long cable
 FMCA1230-100cm = 100 cm long cable

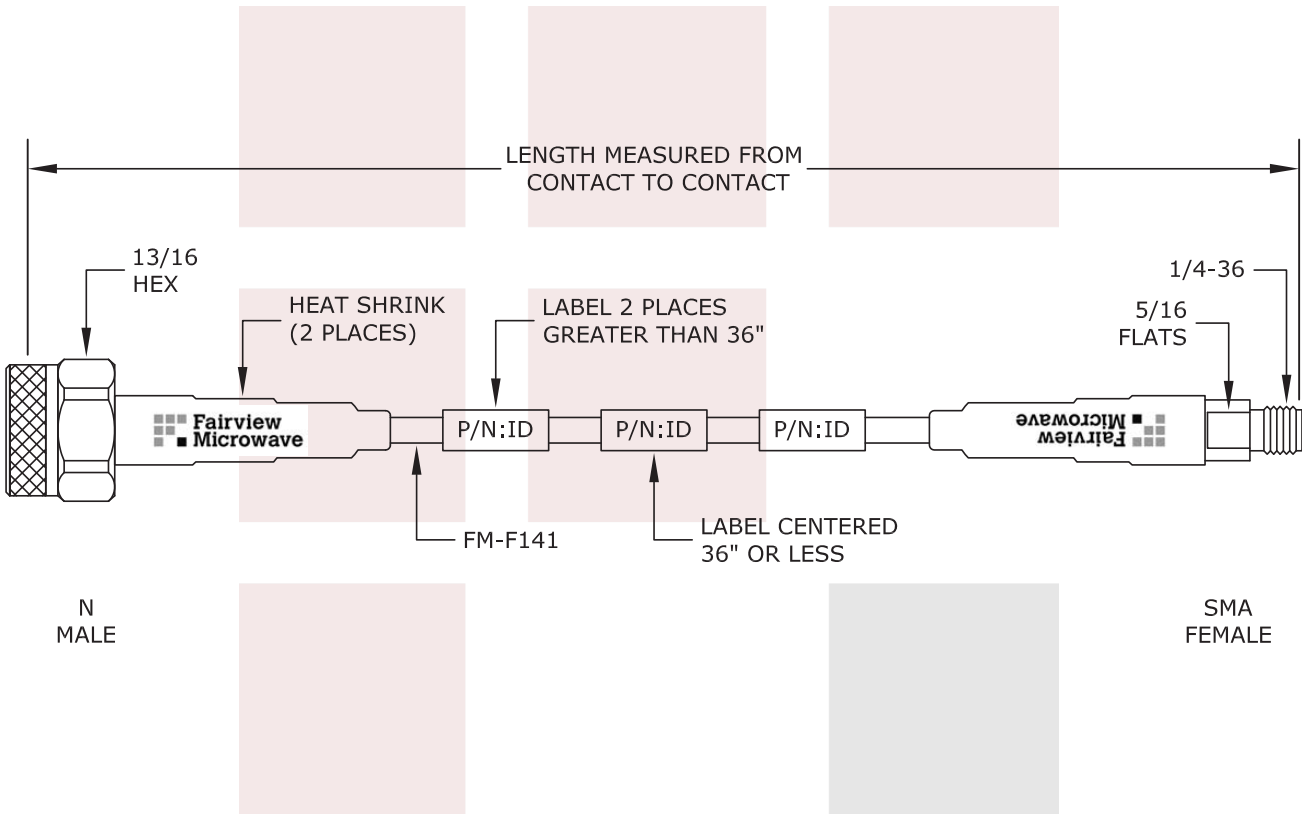
cm = Centimeters
 <blank> = Inches
 Length

Precision SMA Female to N Male Cable FM-F141 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: [Precision SMA Female to N Male Cable FM-F141 Coax with LF Solder FMCA1230](#)

URL: <https://www.fairviewmicrowave.com/precision-sma-female-n-male-cable-fm-f141-coax-fmca1230-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 Precision SMA Female to N Male Cable FM-F141 Coax with LF Solder		DWG NO FMCA1230		CAGE CODE 3FKR5	
CAD FILE	062716	SHEET	SCALE	N/A	SIZE A 2233