

## N Male to N Female Cable RG-58 Coax with Heat Shrink

The type N male to type N female cable using RG-58 coax, part number FMC00141, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to female gender configuration with 50 ohm flexible RG58C/U coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMC00141 type N male to type N female cable assembly operates to 5 GHz.

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		5	GHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance	30.8	[101.05]		pF/ft [pF/m]

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.25	0.5	1	2.5	5	GHz
Insertion Loss (Typ.)	0.074	0.116	0.2	0.35	0.6	dB
	0.24	0.38	0.66	1.15	1.97	

#### Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as  $0.1 * \sqrt{\text{FGHz}}$  dB per connector.

### Mechanical Specifications

#### Cable Assembly

Length*	0 in [0 mm]
Weight	0.438 lbs [198.67 g]

#### Cable

Cable Type	RG58C/U
Impedance	50 Ohms
Inner Conductor Type	Stranded
Inner Conductor Material and Plating	Copper, Tin
Dielectric Type	PE
Number of Shields	1
Shield Layer 1	Tinned Copper Braid
Jacket Material	PVC, Black
Jacket Diameter	0.195 in [4.95 mm]



### Configuration:

- N Male
- N Female
- RG58C/U

### Features:

- Max Frequency 5 GHz
- 66% Phase Velocity
- PVC Jacket

### Applications:

- General Purpose
- Laboratory Use

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## Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Silver
Contact Plating Spec.	MIL-G-45204	QQ-S-365
Dielectric Type	PTFE	PTFE
Outer Cond Material & Plating		Brass, Nickel
Body Material & Plating	Brass, Nickel	Brass, Nickel
Body Plating Spec.	QQ-N-290	QQ-N-290

## Environmental Specifications

### Temperature

Operating Range -40 to +80 deg C

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

## Plotted and Other Data

Notes:

## How to Order

Part Number Configuration:

**FMC00141 - xx uu**

cm = Centimeters  
 <blank> = Inches

Length

Example: FMC00141-12 = 12 inches long cable  
 FMC00141-100cm = 100 cm long cable

N Male to N Female Cable RG-58 Coax with Heat Shrink 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: [N Male to N Female Cable RG-58 Coax with Heat Shrink FMC00141](#)

URL: <https://www.fairviewmicrowave.com/n-male-to-n-female-cable-rg-58-coax-fmc00141-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.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/11/2021	SRAUTUS

LENGTH MEASURED FROM CONTACT TO CONTACT

2X HEAT SHRINK

RG-58

FM LABEL

WWW.FAIRVIEWMICROWAVE.COM  
FAIRVIEW MICROWAVE P/N

(SEE NOTE #1)

N MALE

N FEMALE

NOTES

1. CABLES 36" AND UNDER HAVE 1 LABEL CENTERED.  
CABLES OVER 36" HAVE 2 LABELS, ONE AT EACH END  
6.0" FROM THE END OF THE CONNECTOR.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT  
ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

Fairview Microwave

an INFINITE brand

TITLE

N Male to N Female Cable RG-58 Coax with Heat Shrink

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

CABLE LENGTH (L) TOLERANCES:

.X = ±.2 [ .508 ]

FRACTIONS

.XX = ±.02 [ .51 ]

± 1/32

.XXX = ±.005 [ .13 ]

ANGLES ± 1°

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 A

CAGE CODE 3FKR5

DRAWN BY DMAY

ITEM NO. FMC00141

REV A

T-Rev.D

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