

N Male to N Male Cable RG-142 Coax

The type N male to type N male cable using RG-142 coax, part number SCA81142, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible RG-142 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The SCA81142 type N male to type N male cable assembly operates to 6 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 85 dB. The type N male to type N male cable using RG-142 coax, part number SCA81142, from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N cable assembly has a male to male gender configuration with 50 ohm flexible RG142 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The SCA81142 type N male to type N male cable assembly operates to 6 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 85 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.

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Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Velocity of Propagation		69		%
RF Shielding	85			dB
Group Delay		1.45 [4.76]		ns/ft [ns/m]
Capacitance		29 [95.14]		pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	1	2	3	6	GHz
Insertion Loss (Typ.)	0.04	0.13	0.19	0.24	0.35	dB/ft
	0.13	0.43	0.62	0.79	1.15	dB/m

Electrical Specification Notes:

Insertion loss does not include the loss of the connectors.

Insertion loss is estimated as $0.05 \times \sqrt{f(\text{GHz})}$ dB per connector.



Configuration:

- N Male
- N Male
- RG-142

Features:

- Max Frequency 6 GHz
- Shielding Effectivity > 85 dB
- 69% Phase Velocity
- Double Shielded
- FEP Jacket
- Max Frequency 6 GHz
- Shielding Effectivity > 85 dB
- 69% Phase Velocity
- Double Shielded
- FEP Jacket

Applications:

- General Purpose
- Laboratory Use
- General Purpose
- Laboratory Use

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Mechanical Specifications

Cable Assembly

Length* 0 in [0 mm]

Cable

Cable Type RG-142
 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 Braid
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material FEP, Tan
 Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 1.18 in [29.97 mm]
 Repeated Minimum Bend Radius 1.97 in [50.04 mm]

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Male
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Dielectric Type	PTFE	PTFE
Body Material & Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material & Plating	Brass, Nickel	Brass, Nickel

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

Plotted and Other Data

Notes:

How to Order

Part Number Configuration:

SCA81142 - xx uu

cm = Centimeters
 <blank> = Inches
 Length

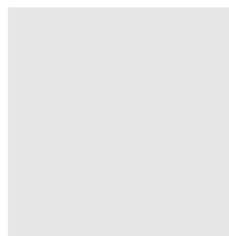
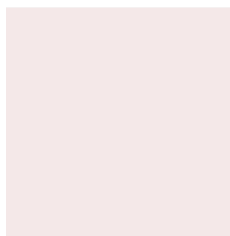
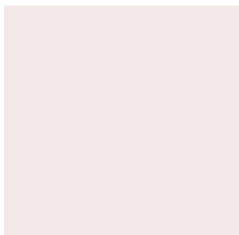
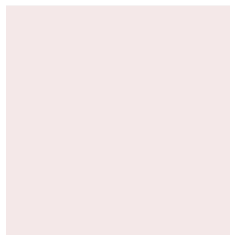
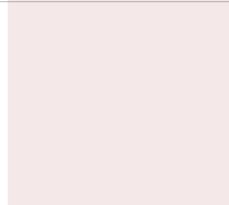
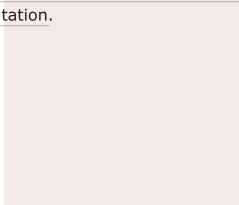
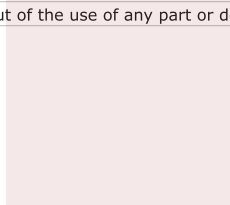
Example: SCA81142-12 = 12 inches long cable
 SCA81142-100cm = 100 cm long cable

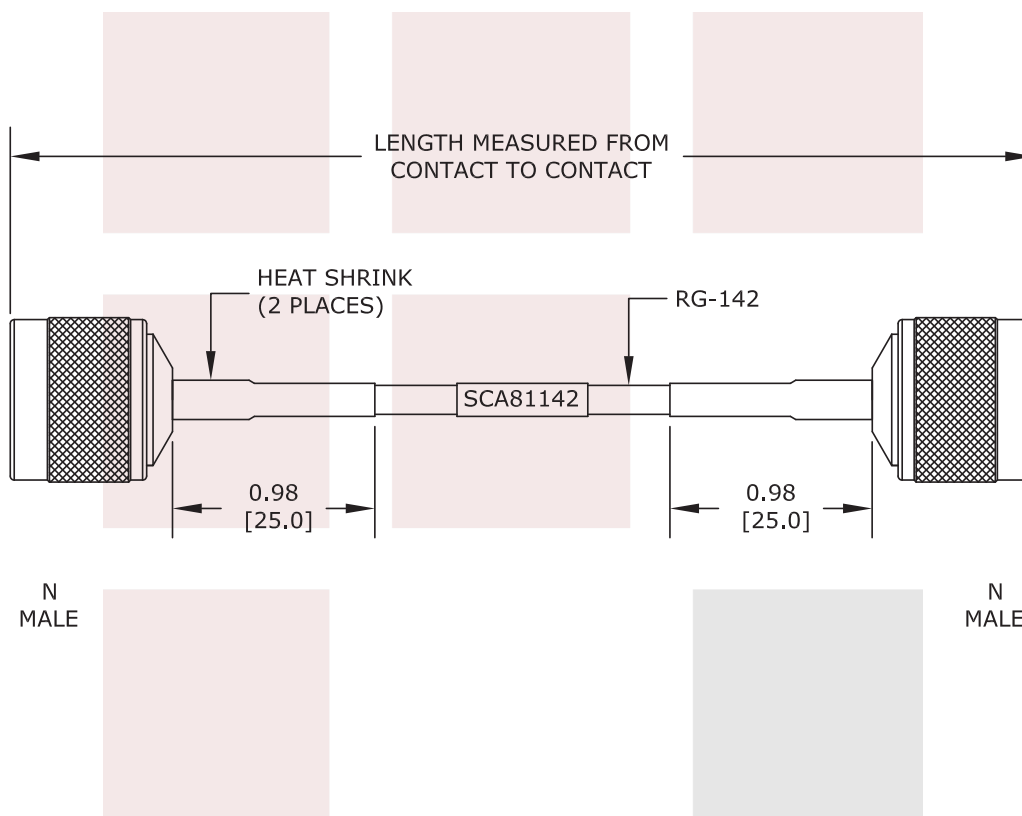
N Male to N Male Cable RG-142 Coax from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [N Male to N Male Cable RG-142 Coax SCA81142](#)

URL: <https://www.fairviewmicrowave.com/n-male-n-male-cable-rg-142-coax-sca81142-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.





STANDARD TOLERANCES

.X ±0.2
.XX ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE N Male to N Male Cable RG-142 Coax	DWG NO SCA81142		CAGE CODE 3FKR5		
	CAD FILE 111616	SHEET	SCALE N/A	SIZE A	41742