

N Female to BNC Female Cable in 48 Inch Length Using RG223 Coax

The type N female to BNC female cable using RG223 coax, part number FMCA2707-48, from Fairview Microwave is in-stock and ships same day. This Fairview type N to BNC cable assembly has a female to female gender configuration with 50 ohm flexible RG223 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA2707-48 type N female to BNC female cable assembly operates to 4 GHz. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness.

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		4	GHz
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	4	GHz
Insertion Loss (Typ.)	0.36	0.45	0.56	0.74	1.37	dB/ft
	1.18	1.48	1.84	2.43	4.49	dB/m

Electrical Specification Notes:

The Insertion Loss data above is based on the performance specifications of the coax and connectors used in this assembly. The Insertion Loss includes an estimated insertion loss of 0.1 dB per connector.

Mechanical Specifications

Cable Assembly

Length* 48 in [121.92 cm]
 Weight 0.214 lbs [97.07 g]

Cable

Cable Type RG223
 Impedance 50 Ohms
 Inner Conductor Type Solid
 Inner Conductor Material and Plating Copper, Silver
 Dielectric Type PE
 Number of Shields 2
 Shield Layer 1 Silver Plated Copper Braid
 Shield Layer 2 Silver Plated Copper Braid
 Jacket Material PVC, Black



Configuration:

- N Female
- BNC Female
- RG223

Features:

- Max Frequency 4 GHz
- 66% Phase Velocity
- Double Shielded
- PVC Jacket

Applications:

- General Purpose
- Laboratory Use

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Jacket Diameter 0.21 in [5.33 mm]
 One Time Minimum Bend Radius 1 in [25.4 mm]

Connectors

Description	Connector 1	Connector 2
Type	N Female	BNC Female
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	
Contact Plating Spec.	30µ in. minimum	
Dielectric Type	Teflon	
Body Material & Plating	Brass, Nickel	Brass, Nickel
Body Plating Spec.	100µ in. minimum	

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

Plotted and Other Data

- Notes:
- Values at 25°C, sea level.

How to Order

Part Number Configuration:

FMCA2707 - xx uu

cm = Centimeters
 <blank> = Inches

Length

Example: FMCA2707-12 = 12 inches long cable
 FMCA2707-100cm = 100 cm long cable

N Female to BNC Female Cable in 48 Inch Length Using RG223 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 Female to BNC Female Cable in 48 Inch Length Using RG223 Coax FMCA2707-48](#)

URL: <https://www.fairviewmicrowave.com/n-female-to-bnc-female-cable-rg223-coax-in-48-inch-and-rohs-fmca2707-48-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
A	INITIAL RELEASE	2/21/2022
		APPROVED AGANIVANI

**WWW.FAIRVIEWMICROWAVE.COM
FAIRVIEW MICROWAVE P/N
(SEE NOTE 1)**

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

Fairview Microwave
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TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
X ± 0.2	[6.98]	L ≤ 12 [305]	± 1 [25] / -0
XX ± 0.02	[.51]	12 [305] < L ≤ 60 [1524]	± 2 [51] / -0
XXX ± 0.005	[.13]	60 [1524] < L ≤ 120 [3048]	± 4 [102] / -0
		120 [3048] < L ≤ 300 [7620]	± 6 [152] / -0
		300 [7620] < L ≤ 450 [11430]	± 8 [203] / -0
		450 [11430] < L ≤ 600 [15240]	± 10 [254] / -0
		600 [15240] < L ≤ 900 [22860]	± 15 [381] / -0
		900 [22860] < L ≤ 1200 [30480]	± 20 [508] / -0
		1200 [30480] < L ≤ 1500 [38100]	± 25 [635] / -0
		1500 [38100] < L ≤ 1800 [45720]	± 30 [762] / -0
		1800 [45720] < L ≤ 2100 [53340]	± 35 [889] / -0
		2100 [53340] < L ≤ 2400 [60960]	± 40 [1016] / -0
		2400 [60960] < L ≤ 2700 [68580]	± 45 [1143] / -0
		2700 [68580] < L ≤ 3000 [76200]	± 50 [1270] / -0
		3000 [76200] < L ≤ 3300 [83820]	± 55 [1397] / -0
		3300 [83820] < L ≤ 3600 [91440]	± 60 [1524] / -0
		3600 [91440] < L ≤ 3900 [99060]	± 65 [1651] / -0
		3900 [99060] < L ≤ 4200 [106680]	± 70 [1778] / -0
		4200 [106680] < L ≤ 4500 [114300]	± 75 [1905] / -0
		4500 [114300] < L ≤ 4800 [121920]	± 80 [2032] / -0
		4800 [121920] < L ≤ 5100 [129540]	± 85 [2159] / -0
		5100 [129540] < L ≤ 5400 [137160]	± 90 [2286] / -0
		5400 [137160] < L ≤ 5700 [144780]	± 95 [2413] / -0
		5700 [144780] < L ≤ 6000 [152400]	± 100 [2540] / -0
		6000 [152400] < L ≤ 6300 [160020]	± 105 [2667] / -0
		6300 [160020] < L ≤ 6600 [167640]	± 110 [2794] / -0
		6600 [167640] < L ≤ 6900 [175260]	± 115 [2921] / -0
		6900 [175260] < L ≤ 7200 [182880]	± 120 [3048] / -0
		7200 [182880] < L ≤ 7500 [190500]	± 125 [3175] / -0
		7500 [190500] < L ≤ 7800 [198120]	± 130 [3302] / -0
		7800 [198120] < L ≤ 8100 [205740]	± 135 [3429] / -0
		8100 [205740] < L ≤ 8400 [213360]	± 140 [3556] / -0
		8400 [213360] < L ≤ 8700 [220980]	± 145 [3683] / -0
		8700 [220980] < L ≤ 9000 [228600]	± 150 [3810] / -0
		9000 [228600] < L ≤ 9300 [236220]	± 155 [3937] / -0
		9300 [236220] < L ≤ 9600 [243840]	± 160 [4064] / -0
		9600 [243840] < L ≤ 9900 [251460]	± 165 [4191] / -0
		9900 [251460] < L ≤ 10200 [259080]	± 170 [4318] / -0
		10200 [259080] < L ≤ 10500 [266700]	± 175 [4445] / -0
		10500 [266700] < L ≤ 10800 [274320]	± 180 [4572] / -0
		10800 [274320] < L ≤ 11100 [281940]	± 185 [4699] / -0
		11100 [281940] < L ≤ 11400 [289560]	± 190 [4826] / -0
		11400 [289560] < L ≤ 11700 [297180]	± 195 [4953] / -0
		11700 [297180] < L ≤ 12000 [304800]	± 200 [5080] / -0
		12000 [304800] < L ≤ 12300 [312420]	± 205 [5207] / -0
		12300 [312420] < L ≤ 12600 [320040]	± 210 [5334] / -0
		12600 [320040] < L ≤ 12900 [327660]	± 215 [5461] / -0
		12900 [327660] < L ≤ 13200 [335280]	± 220 [5588] / -0
		13200 [335280] < L ≤ 13500 [342900]	± 225 [5715] / -0
		13500 [342900] < L ≤ 13800 [350520]	± 230 [5842] / -0
		13800 [350520] < L ≤ 14100 [358140]	± 235 [5969] / -0
		14100 [358140] < L ≤ 14400 [365760]	± 240 [6096] / -0
		14400 [365760] < L ≤ 14700 [373380]	± 245 [6223] / -0
		14700 [373380] < L ≤ 15000 [381000]	± 250 [6350] / -0
		15000 [381000] < L ≤ 15300 [388620]	± 255 [6477] / -0
		15300 [388620] < L ≤ 15600 [396240]	± 260 [6604] / -0
		15600 [396240] < L ≤ 15900 [403860]	± 265 [6731] / -0
		15900 [403860] < L ≤ 16200 [411480]	± 270 [6858] / -0
		16200 [411480] < L ≤ 16500 [419100]	± 275 [6985] / -0
		16500 [419100] < L ≤ 16800 [426720]	± 280 [7112] / -0
		16800 [426720] < L ≤ 17100 [434340]	± 285 [7239] / -0
		17100 [434340] < L ≤ 17400 [441960]	± 290 [7366] / -0
		17400 [441960] < L ≤ 17700 [449580]	± 295 [7493] / -0
		17700 [449580] < L ≤ 18000 [457200]	± 300 [7620] / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE: N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	3FKRS	MVEERAPPAN	FMCA2707
TITLE			REV
			A

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