SMA Male Right Angle to TNC Male Right Angle Cable Using RG223 Coax

The RA SMA male to RA TNC male cable using RG223 coax, part number FMCA2738, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC cable assembly has a male to male 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 FMCA2738 SMA male to TNC male cable assembly operates to 3 GHz. The right angle SMA and right angle TNC interfaces on the RG223 cable allow for easier connections in tight spaces. 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.

Configuration:
• SMA Male Right Angle
• TNC Male Right Angle
• RG223

Features:
• Max Frequency 3 GHz
• 66% Phase Velocity
• Double Shielded
• PVC Jacket

Applications:
• General Purpose
• Laboratory Use

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.25	0.5	1	3	GHz
Insertion Loss (Typ.)	0.04	0.061	0.09	0.134	0.248	dB/ft
	0.13	0.2	0.3	0.44	0.81	dB/m

Electrical Specification Notes:
Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 dB for the straight connector and 0.2 dB for the right angle connector.

Mechanical Specifications

Cable Assembly
Weight	0.121 lbs [54.88 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

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Jacket Material	PVC, Black
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	SMA Male	TNC Male
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material & Plating	Brass, Gold	Brass, Gold
Contact Plating Spec.	50µ in. minimum	30µ in. minimum
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Nickel	Brass, Nickel
Body Plating Spec.	100µ in. minimum	100µ in. minimum
Coupling Nut Material & Plating		Brass, Nickel
Coupling Nut Plating Spec.		100µ in. minimum
Hex Size	5/16 in	
Torque	5 in-lbs 0.57 Nm	

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: **FMCA2738 - xx   uu**

cm = Centimeters
<blank> = Inches

Length

Example: FMCA2738-12 = 12 inches long cable
FMCA2738-100cm = 100 cm long cable

SMA Male Right Angle to TNC Male Right Angle Cable 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.
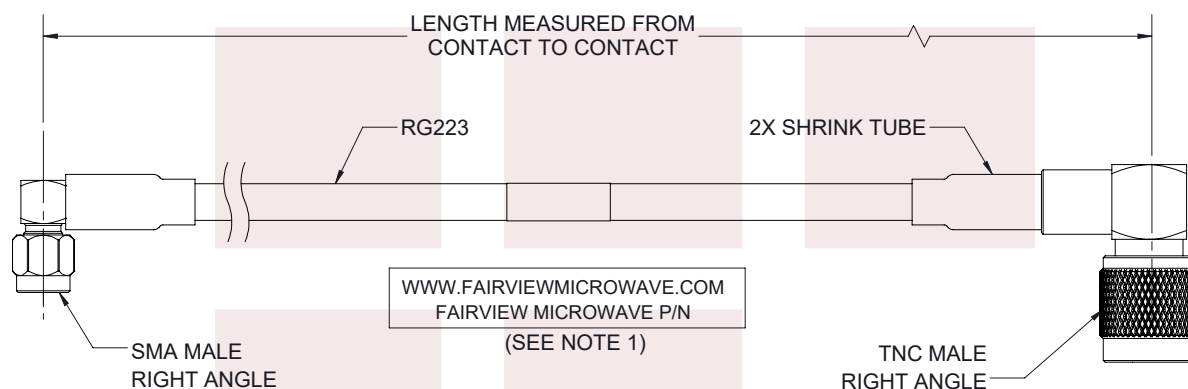
Click the following link to obtain additional part information: SMA Male Right Angle to TNC Male Right Angle Cable Using RG223 Coax FMCA2738

URL: https://www.fairviewmicrowave.com/ra-sma-male-to-ra-tnc-male-cable-rg223-coax-and-rohs-fmca2738-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	2/21/2022	AGANWANI

LENGTH MEASURED FROM
CONTACT TO CONTACT

RG223

2X SHRINK TUBE

SMA MALE
RIGHT ANGLE

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

TNC MALE
RIGHT ANGLE

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.

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TITLE

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Using RG223 Coax

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

TOLERANCES:

CABLE LENGTH (L) TOLERANCES:

.X = ±.2   [5.08]   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

SHEET	OF
1	1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE
N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.		REV
A	3FKR5	MVEERAPPAN		FMCA2738	A

T-Rev.D