



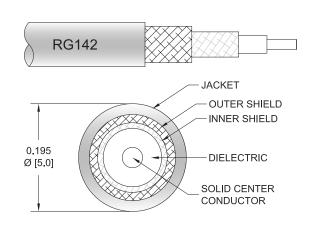
FMC00212

Configuration

Connector 1: TNC MaleConnector 2: BNC MaleCable Type: RG142Coax Flex Type: Flexible

Features

- Max Frequency 4 GHz
- 70% Phase Velocity
- · Double Shielded
- · FEP Jacket



Applications

· General Purpose

· Laboratory Use

Description

The TNC male to BNC male cable using RG-142 coax, part number FMC00212, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to BNC 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 FMC00212 TNC male to BNC male 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.4:1	
Velocity of Propagation		%		
Capacitance		29.39 [96.42]		pF/ft [pF/m]

Specifications by Frequency





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Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	100	250	500	1000	4000	MHz	weight (ms)
FMC00212	Custom Lengths	Insertion Loss (Typ.)	0.04	0.06	0.087	0.129	0.28	dB/ft	
FIVICOUZIZ	Available		0.13	0.2	0.29	0.43	0.92	dB/m	
FMC00212-12	12 inch	Insertion Loss (Typ.)	0.24	0.26	0.29	0.33	0.48	dB	0.106
FMC00212-24	24 inch	Insertion Loss (Typ.)	0.28	0.32	0.38	0.46	0.76	dB	0.149
FMC00212-36	36 inch	Insertion Loss (Typ.)	0.32	0.38	0.47	0.59	1.04	dB	0.192
FMC00212-48	48 inch	Insertion Loss (Typ.)	0.36	0.44	0.55	0.72	1.32	dB	0.234
FMC00212-60	60 inch	Insertion Loss (Typ.)	0.4	0.5	0.64	0.85	1.6	dB	0.277

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1: 0.1 dB Loss due to Connector 2: 0.1 dB Base Weight: 0.106 pounds 0.00355 pounds Additional Weight per Inch:

Mechanical Specifications

Cable Assembly

Weight 0.106 lbs [48.08 g]

Cable

Cable Type RG142 Impedance 50 Ohms Inner Conductor Type

Copper Clad Steel, Silver Inner Conductor Material and Plating

Dielectric Type **PTFE** Number of Shields 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] Repeated Minimum Bend Radius 1 in [25.4 mm]





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Connectors

Description	Connector 1	Connector 2
Туре	TNC Male	BNC Male
Specification	MIL-STD-348	
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	MIL-G-45204	30 μin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	QQ-N-290	100 μin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	QQ-N-290 100 µin minimum	

Environmental Specifications

Operating Range Temperature

-55 to +155 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

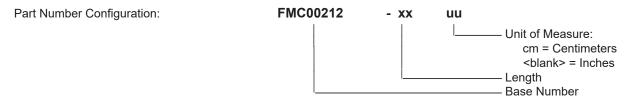




FMC00212

Typical Performance Data

How to Order



Example: FMC00212-12 = 12 inches long cable

FMC00212-100cm = 100 cm long cable

TNC Male to BNC Male Cable RG-142 Coax from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: TNC Male to BNC Male Cable RG-142 Coax FMC00212

URL: https://www.fairviewmicrowave.com/tnc-male-to-bnc-male-cable-rg-142-coax-fmc00212-p.aspx

The information contained within 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 impliment 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 liability arising out of the use of any part or document.

