

TNC Male to SMA Male Cable RG-174 Coax



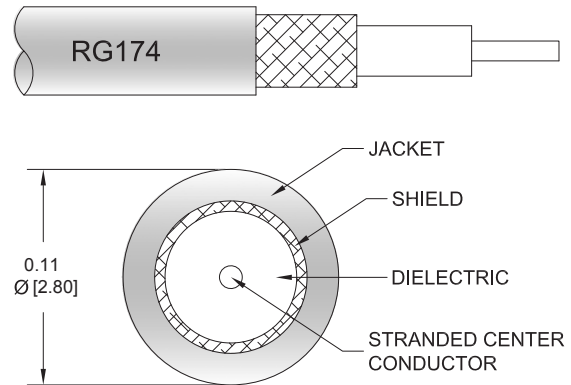
FMCA10065

Configuration

- Connector 1: TNC Male
- Connector 2: SMA Male
- Cable Type: RG-174
- Coax Flex Type: Flexible

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket



Applications

- General Purpose
- Laboratory Use

Description

The TNC male to SMA male cable using RG174 coax, part number FMCA10065, from Fairview Microwave is in-stock and ships same day. This Fairview TNC to SMA cable assembly has a male to male gender configuration with 50 ohm flexible RG-174 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA10065 TNC male to SMA male cable assembly operates to 1 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
VSWR			1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		pF/ft [pF/m]

Specifications by Frequency

TNC Male to SMA Male Cable RG-174 Coax



FMCA10065

Part Number	Length	Description	F1	F2	F3	F4	Units	Weight (lbs)
			Frequency				MHz	
FMCA10065	Custom Lengths Available	Insertion Loss (Typ.)	0.08	0.14	0.21	0.32	dB/ft	
			0.28	0.45	0.7	1.05	dB/m	
FMCA10065-12	12 Inch	Insertion Loss (Typ.)	0.37	0.44	0.54	0.67	dB	0.062
FMCA10065-24	24 Inch	Insertion Loss (Typ.)	0.45	0.58	0.75	0.99	dB	0.071
FMCA10065-36	36 Inch	Insertion Loss (Typ.)	0.54	0.72	0.96	1.31	dB	0.08
FMCA10065-48	48 Inch	Insertion Loss (Typ.)	0.62	0.85	1.17	1.63	dB	0.089
FMCA10065-72	72 Inch	Insertion Loss (Typ.)	0.79	1.13	1.59	2.27	dB	0.112

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*SQRT(FGHz) dB
 Loss due to Connector 2: 0.25 dB
 Base Weight: 0.062 pounds
 Additional Weight per Inch: 0.07833 pounds

Mechanical Specifications

Cable Assembly

Width/Diameter 0.5 in [12.7 mm]
 Weight 0.062 lbs [28.12 g]

Cable

Cable Type RG-174
 Impedance 50 Ohms
 Inner Conductor Type Stranded
 Inner Conductor Material and Plating Copper Clad Steel
 Dielectric Type PE
 Number of Shields 1
 Shield Layer 1 Tinned Copper Braid
 Jacket Material PVC, Black
 Jacket Diameter 0.11 in [2.79 mm]

TNC Male to SMA Male Cable RG-174 Coax

FMCA10065



Connectors

Description	Connector 1	Connector 2
Type	TNC Male	SMA Male
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Beryllium Copper, Gold	Brass, Gold
Contact Plating Specification	15 µin minimum	15 µin minimum
Dielectric Type	Teflon	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	200 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	200 µin minimum

Environmental Specifications

Operating Range Temperature -40 to +80 deg C

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

Plotted and Other Data

Notes:

TNC Male to SMA Male Cable RG-174 Coax



FMCA10065

Typical Performance Data

How to Order

Part Number Configuration:

FMCA10065

- xx

uu

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: FMCA10065-12 = 12 inches long cable
FMCA10065-100cm = 100 cm long cable

TNC Male to SMA Male Cable RG-174 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.

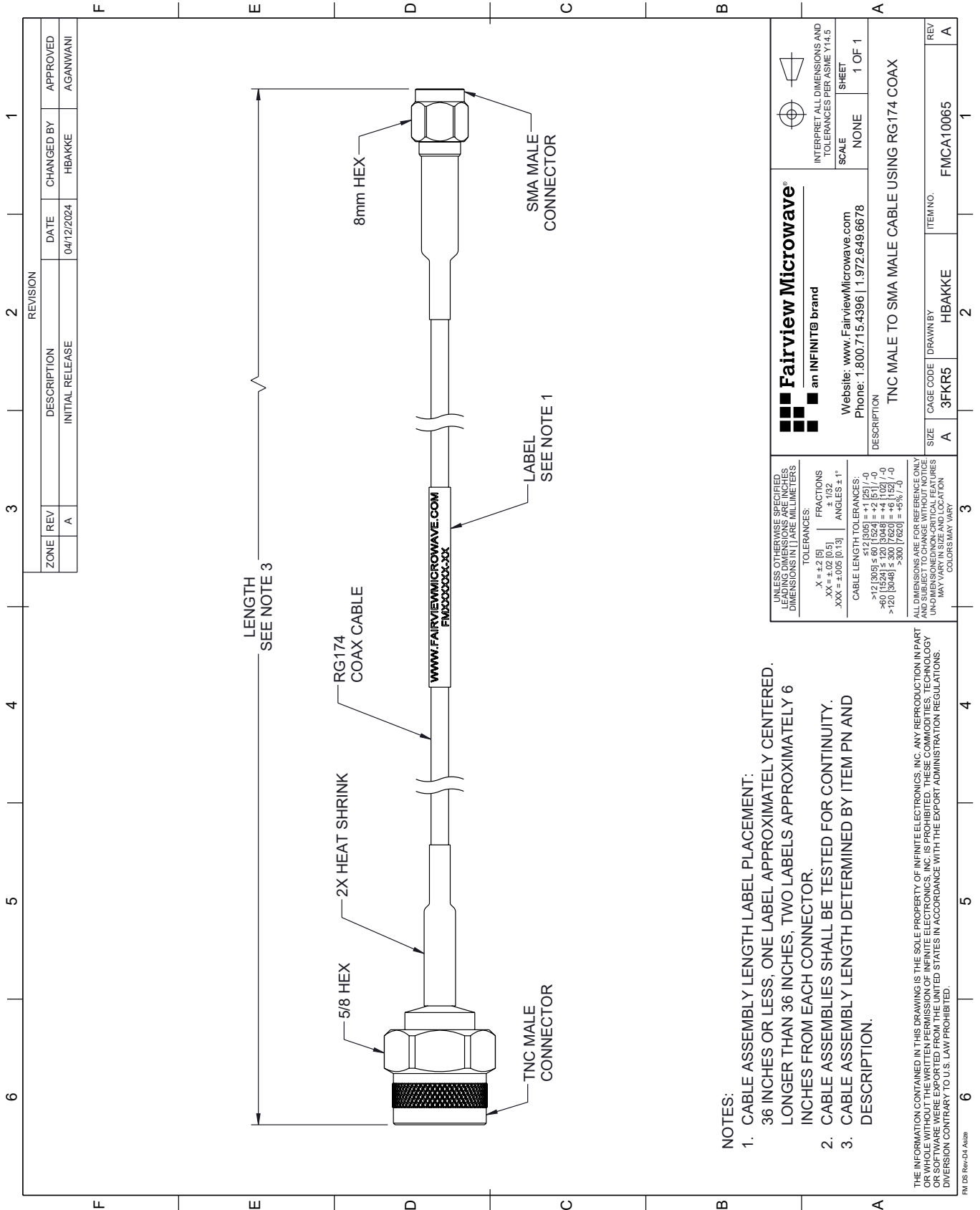
For additional information on this product, please click the following link: [TNC Male to SMA Male Cable RG-174 Coax FMCA10065](#)

URL: <https://www.fairviewmicrowave.com/tnc-male-to-sma-male-cable-rg174-coax-fmca10065-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 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 liability arising out of the use of any part or document.

FMCA10065 CAD Drawing

TNC Male to SMA Male Cable RG-174 Coax



NOTES:

1. CABLE ASSEMBLY LENGTH LABEL PLACEMENT: 36 INCHES OR LESS, ONE LABEL APPROXIMATELY CENTERED, LONGER THAN 36 INCHES, TWO LABELS APPROXIMATELY 6 INCHES FROM EACH CONNECTOR.
2. CABLE ASSEMBLIES SHALL BE TESTED FOR CONTINUITY.
3. CABLE ASSEMBLY LENGTH DETERMINED BY ITEM PN AND DESCRIPTION.