



CONDUCTOR

FMCA10073

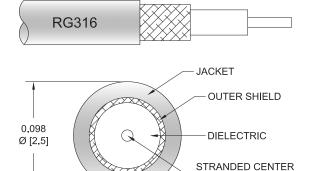
Configuration

Connector 1: SMA MaleConnector 2: TNC FemaleCable Type: RG-316

· Coax Flex Type: Flexible

Features

- Max Frequency 3 GHz
- 69% Phase Velocity
- · FEP Jacket



Applications

· General Purpose

· Laboratory Use

Description

The SMA male to TNC female cable using RG-316 coax, part number FMCA10073, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC cable assembly has a male to female gender configuration with 50 ohm flexible RG-316 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA10073 SMA male to TNC female cable assembly operates to 3 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		3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.41 [27.59]		Ohms/1000ft [Ohms/Km]
Jacket Spark			2,000	Vrms

Specifications by Frequency





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Part Number Ler	Longth	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
	Length	Frequency	100	250	500	1000	3000	MHz	
FMCA10073	Custom Lengths	Insertion Loss (Typ.)	0.11	0.16	0.24	0.38	0.58	dB/ft	
TWCA10073	Available	ilisei tioli Loss (Typ.)	0.37	0.53	0.79	1.25	1.91	dB/m	
FMCA10073-12	12 Inch	Insertion Loss (Typ.)	0.46	0.51	0.59	0.73	0.93	dB	0.03
FMCA10073-24	24 Inch	Insertion Loss (Typ.)	0.57	0.67	0.83	1.11	1.51	dB	0.04
FMCA10073-36	36 Inch	Insertion Loss (Typ.)	0.68	0.83	1.07	1.49	2.09	dB	0.05
FMCA10073-48	48 Inch	Insertion Loss (Typ.)	0.79	0.99	1.31	1.87	2.67	dB	0.06
FMCA10073-72	72 Inch	Insertion Loss (Typ.)	1.01	1.31	1.78	2.63	3.83	dB	0.08

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: 0.25 dB

Loss due to Connector 2: 0.1 dB

Base Weight: 0.03 pounds

Additional Weight per Inch: 0.32917 pounds

Mechanical Specifications

Cable Assembly

 Width/Diameter
 0.5 in [12.7 mm]

 Weight
 0.03 lbs [13.61 g]

Cable

Cable TypeRG-316Impedance50 OhmsInner Conductor TypeStranded

Inner Conductor Material and Plating Copper Clad Steel, Silver Dielectric Type PTFE

Dielectric Type PT
Number of Shields 1

Shield Layer 1 Silver Plated Copper Braid

Jacket Material FEP, Tan

Jacket Diameter 0.102 in [2.59 mm]





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Connectors

Description	Connector 1	Connector 2
Туре	SMA Male	TNC Female
Specification		MIL-STD-348
Impedance	50 Ohms	50 Ohms
Configuration	Straight	Straight
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	15 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Outer Conductor Material and Plating		Brass, Nickel
Outer Conductor Plating Specification		100 μin minimum
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	200 μin minimum	100 μin minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	200 μin minimum	

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

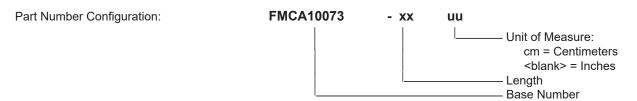




FMCA10073

Typical Performance Data

How to Order



Example: FMCA10073-12 = 12 inches long cable

FMCA10073-100cm = 100 cm long cable

SMA Male to TNC Female Cable RG-316 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: SMA Male to TNC Female Cable RG-316 Coax FMCA10073

URL: https://www.fairviewmicrowave.com/sma-male-to-tnc-female-cable-rg-316-coax-fmca10073-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.

