

SMA Male Right Angle to SMA Male Using Flexible RG174 Coax Cable



RF Cable Assemblies Technical Data Sheet

MTCA00114

Configuration

• Connector 1: SMA Male

• Connector 2: SMA Male Right Angle

• Cable Type: RG174

Features

Max Frequency 1 GHz

66% Phase Velocity

PVC Jacket

Applications

General Purpose

Laboratory Use

Description

MilesTek's MTCA00114 coaxial cable assembly is a SMA male right angle to SMA male using flexible RG174 coax cable. MilesTek cables are built using high quality materials and are tested to insure these assemblies meet all performance specifications. Coaxial cable assemblies are stocked in standard lengths and will ship same day. Custom lengths of this cable assembly are also available upon request. These assemblies are part of MilesTek's extensive portfolio of products that are in stock and ship same day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC	0	1,000	MHz
VSWR		2	1.4:1	
Velocity of Propagation		66		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	100	400	1,000			MHz
Insertion Loss (Typ.)	0.084	0.19	0.32			dB/ft
	0.28	0.62	1.05			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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle to SMA Male Using Flexible RG174 Coax Cable MTCA00114



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Mechanical Specifications

Cable Assembly

Diameter 0.315 in [8 mm]
Weight 0.028 lbs [12.7 g]

Cable

Cable Type RG174
Impedance 50 Ohms
Inner Conductor Type Stranded
Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type
Number of Shields
Shield Layer 1

Shield Layer 1 Tinned Copper Braid
Jacket Material PVC, Black
Jacket Diameter 0.1 in [2.54 mm]

Connectors

Description	Connector 1	Connector 2
Туре	SMA Male	SMA Male Right Angle
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	30μ in. Minimum	50μ in. minimum
Dielectric Type	PTFE	Teflon
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100µ in. Minimum	100μ in. minimum
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100μ in. Minimum	
Hex Size	5/16 in	5/16 in
Torque	5 in-lbs [0.57 Nm]	5 in-lbs [0.57 Nm]

PE (LD)

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

· Values at 25°C, sea level.

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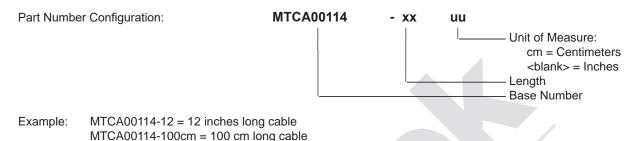
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How to Order



Our offering, used primarily in military, R&D and production applications, consists of a comprehensive line of MIL-STD-1553B data bus couplers, harnesses and cable assemblies, connectors and connector termination systems. MilesTek also offers expertise in manufacturing custom cable assemblies and harnesses.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Male Right Angle to SMA Male Using Flexible RG174 Coax Cable MTCA00114

URL: https://www.milestek.com/SMA-Male-SMA-Male-MTRG174AU-MTCA00114-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. MilesTek reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. MilesTek does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and MilesTek does not assume any liability arising out of the use of any part or documentation.

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