



SMA Female to SMA Female Using Flexible RG174 Coax Cable

RF Cable Assemblies Technical Data Sheet

MTCA00119

Configuration

Connector 1: SMA FemaleConnector 2: SMA FemaleCable Type: RG174

Features

- Max Frequency 1 GHz
- 66% Phase Velocity
- PVC Jacket
- 100 Mating Cycles

Applications

General Purpose

Laboratory Use

Description

MilesTek's MTCA00119 coaxial cable assembly is a SMA female to SMA female 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		1,000	MHz
VSWR		3/	1.4:1	
Velocity of Propagation		66		%
Capacitance		31.08 [101.97]		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 per connector.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: SMA Female to SMA Female Using Flexible RG174 Coax Cable MTCA00119





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Mechanical Specifications

Cable Assembly

Diameter 0.312 in [7.92 mm]

Cable

Cable TypeRG174Impedance50 OhmsInner Conductor TypeStranded

Inner Conductor Material and Plating Copper Clad Steel

Dielectric Type Number of Shields

Shield Layer 1 Tinned Copper Braid Jacket Material PVC, Black

Jacket Diameter

Connectors

Description	Connector 1	Connector 2	
Туре	SMA Female	SMA Female	
Specification	MIL-STD-348	MIL-STD-348	
Impedance	50 Ohms	50 Ohms	
Mating Cycles	100	100	
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold	
Dielectric Type	PTFE	PTFE	
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel	
Body Material and Plating	Brass, Nickel	Brass, Nickel	

PΕ

0.11 in [2.79 mm]

Environmental Specifications

Temperature

Operating Range -40 to +80 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Values at 25°C, sea level.

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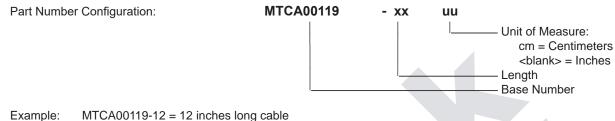


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How to Order



MTCA00119-100cm = 100 cm long cable

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.

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URL: https://www.milestek.com/SMA-Female-SMA-Female-MTRG174AU-MTCA00119-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.

