

# SMA Male Right Angle to SMA Male Right Angle Using Flexible RG316-DS Coax Cable



## RF Cable Assemblies Technical Data Sheet

MTCA00093

# Configuration

Connector 1: SMA Male Right AngleConnector 2: SMA Male Right Angle

• Cable Type: RG316-DS

#### **Features**

- Max Frequency 3 GHz
- 70% Phase Velocity
- · Double Shielded
- FEP Jacket

## **Applications**

General Purpose

Laboratory Use

### Description

MilesTek's MTCA00093 coaxial cable assembly is a SMA male right angle to SMA male right angle using flexible RG316-DS 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**

Minimum	Typical	Maximum	Units
DC		3	GHz
	37	1.4:1	
	70		%
	29.4 [96.46]		pF/ft [pF/m]
		335	Vrms
		DC 70	DC 3 1.4:1 70 29.4 [96.46]

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.1	0.4	1	3		GHz
Insertion Loss (Typ.)	0.115	0.172	0.3	0.545		dB/ft
	0.38	0.56	0.98	1.79		dB/m

**Electrical Specification Notes:** 

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.2 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 Male Right Angle to SMA Male Right Angle Using Flexible RG316-DS Coax Cable MTCA00093



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### **Mechanical Specifications**

**Cable Assembly** 

Diameter 0.313 in [7.95 mm]
Weight 0.044 lbs [19.96 g]

Cable

Cable TypeRG316-DescriptionImpedance50 OhmsInner Conductor TypeStranded

Inner Conductor Material and Plating Copper Clad Steel, Silv

Dielectric Type
Number of Shields
Shield Layer 1
Shield Layer 2
Jacket Material

Jacket Diameter

One Time Minimum Bend Radius

RG316-DS 50 Ohms Stranded Copper Clad Steel, Silver PTFE 2 Silver Plated Copper Braid Silver Plated Copper Braid

0.59 in [14.99 mm]

0.114 in [2.9 mm]

FEP, Tan

#### **Connectors**

Description	Connector 1	Connector 2  SMA Male Right Angle	
Туре	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	50μ in. minimum	50μ in. minimum	
Dielectric Type	Teflon	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	Brass, Nickel	
Coupling Nut Plating Specification	100μ in. minimum	100μ in. minimum	
Hex Size	5/16 in	5/16 in	
Torque	5 in-lbs [0.57 Nm]	5 in-lbs [0.57 Nm]	

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

· Values at 25°C, sea level.

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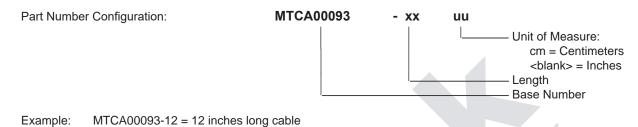
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#### **How to Order**



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

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URL: https://www.milestek.com/SMA-Male-SMA-Male-MTRG316DS-MTCA00093-p.aspx

MTCA00093-100cm = 100 cm long cable

offers expertise in manufacturing custom cable assemblies and harnesses.

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.

# MTCA00093 CAD Drawing SMA Male Right Angle to SMA Male Right Angle Using Flexible RG316-DS Coax Cable

