



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

### RF Cable Assemblies Technical Data Sheet

MTCA00095

#### Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Female Bulkhead
- Cable Type: RG316-DS

#### Features

- 70% Phase Velocity
- Double Shielded
- FEP Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

MilesTek's MTCA00095 coaxial cable assembly is a SMA male right angle to SMA female bulkhead mount 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

Description	Minimum	Typical	Maximum	Units
VSWR			1.4:1	
Velocity of Propagation		70		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]

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.

#### Mechanical Specifications

##### Cable Assembly

Weight 0.038 lbs [17.24 g]

##### Cable

Cable Type RG316-DS  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper Clad Steel, Silver  
 Dielectric Type PTFE  
 Number of Shields 2

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 Female Bulkhead Mount Using Flexible RG316-DS Coax Cable MTCA00095](#)



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

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Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Silver Plated Copper Braid
Jacket Material	FEP, Tan
Jacket Diameter	0.114 in [2.9 mm]
One Time Minimum Bend Radius	0.59 in [14.99 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Female Bulkhead
Specification	MIL-STD-348A	
Impedance	50 Ohms	50 Ohms
Contact Material and Plating	Brass, Gold	
Contact Plating Specification	50µ in. minimum	
Dielectric Type	Teflon	
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100µ in. minimum	
Coupling Nut Material and Plating	Brass, Nickel	
Coupling Nut Plating Specification	100µ in. minimum	
Hex Size	5/16 in	
Torque	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.

#### How to Order

Part Number Configuration:

MTCA00095

- xx uu

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: MTCA00095-12 = 12 inches long cable  
MTCA00095-100cm = 100 cm long cable

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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 Female Bulkhead Mount Using Flexible RG316-DS Coax Cable MTCA00095](https://www.milestek.com/SMA-Male-SMA-Female-MTRG316DS-MTCA00095-p.aspx)

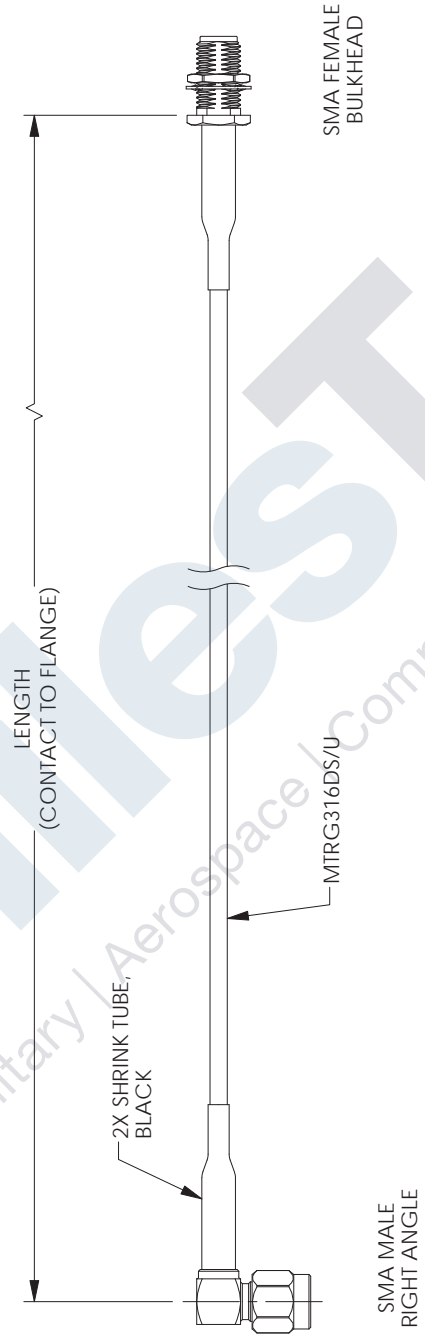
URL: <https://www.milestek.com/SMA-Male-SMA-Female-MTRG316DS-MTCA00095-p.aspx>

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.

# MTCA00095 CAD Drawing

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

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	09/25/2019	SELLIS



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	<p><b>Milestek</b> an INFINITE brand</p> <p>301 Leora Ln., Suite 100, Lewisville, TX 75056                  Phone: 1.940.484.9400   1.866.524.1553                  Fax: 1.972.394.7913                  www.milestek.com   e-mail: Customerfirst@milestek.com</p> <p>SIZE A CAGE CODE 4Z977 DRAWN BY DFRISIELLO PART NUMBER MTC000095</p>

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