



## BNC Male Right Angle to BNC Male Right Angle Using Flexible RG58 Coax Cable

### RF Cable Assemblies Technical Data Sheet

MTCA00004

#### Configuration

- Connector 1: BNC Male Right Angle
- Connector 2: BNC Male Right Angle
- Cable Type: RG58

#### Features

- Max Frequency 3 GHz
- 65.9% Phase Velocity
- PVC (NC) Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

MilesTek's MTCA00004 coaxial cable assembly is a BNC male right angle to BNC male right angle using flexible RG58 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		3	GHz
VSWR			1.4:1	
Velocity of Propagation		65.9		%
Capacitance		30.8 [101.05]		pF/ft [pF/m]
Operating Voltage (AC)			500	Vrms

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.01	0.1	1	3		GHz
Insertion Loss (Typ.)	0.014	0.049	0.2	0.4		dB/ft
	0.05	0.16	0.66	1.31		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: [BNC Male Right Angle to BNC Male Right Angle Using Flexible RG58 Coax Cable MTCA00004](#)



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#### Mechanical Specifications

##### Cable Assembly

Diameter 0.571 in [14.5 mm]

##### Cable

Cable Type RG58  
 Impedance 50 Ohms  
 Inner Conductor Type Stranded  
 Inner Conductor Material and Plating Copper, Tin  
 Dielectric Type PE  
 Number of Shields 1  
 Shield Layer 1 Tinned Copper Braid  
 Jacket Material PVC (NC), Black  
 Jacket Diameter 0.195 in [4.95 mm]

One Time Minimum Bend Radius 0.98 in [24.89 mm]

Repeated Minimum Bend Radius 1.96 in [49.78 mm]

##### Connectors

Description	Connector 1	Connector 2
Type	BNC Male Right Angle	BNC 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	30 µin minimum	30 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Nickel	Brass, Nickel
Body Plating Specification	100 µin minimum	100 µin minimum
Coupling Nut Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Plating Specification	100 µin minimum	100 µin minimum

#### 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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## BNC Male Right Angle to BNC Male Right Angle Using Flexible RG58 Coax Cable

### RF Cable Assemblies Technical Data Sheet

MTCA00004

#### How to Order

Part Number Configuration:

**MTCA00004**

- **xx**

**uu**

Unit of Measure:

cm = Centimeters

<blank> = Inches

Length

Base Number

Example: MTCA00004-12 = 12 inches long cable  
MTCA00004-100cm = 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male Right Angle to BNC Male Right Angle Using Flexible RG58 Coax Cable MTCA00004](#)

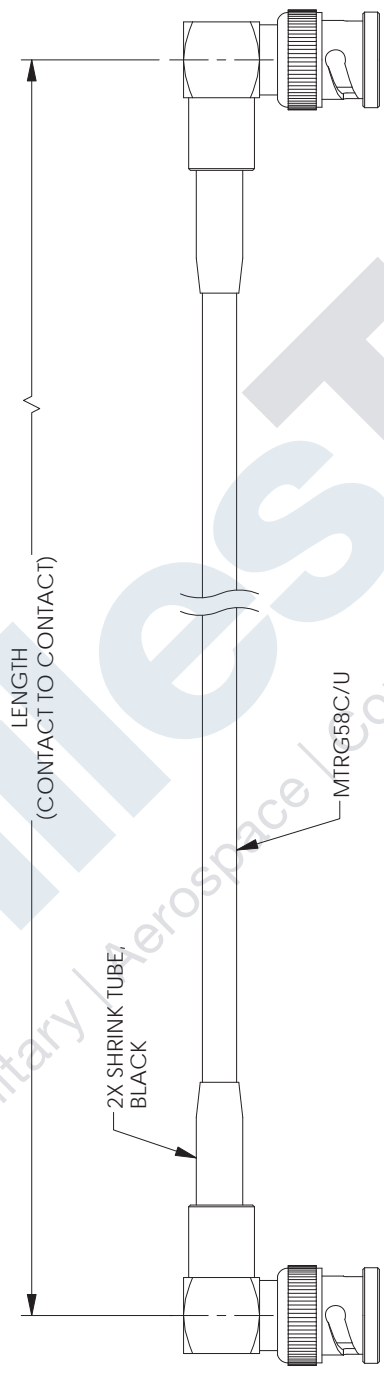
URL: <https://www.milestek.com/BNC-Male-BNC-Male-MTRG58CU-MTCA00004-p.aspx>

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.

# MTCA00004 CAD Drawing

BNC Male Right Angle to BNC Male Right Angle Using Flexible RG58 Coax Cable

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	09/11/2019	SELLIS



2X BNC MALE  
RIGHT ANGLE

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>X = ±.2 [5.08] FRACTIONS ± 1/32</p> <p>XX = ±.02 [.51] ANGLES ± 1°</p> <p>XXX = ±.005 [.13]</p> <p>OVERALL CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +.1 [25] / -0</p> <p>12 [305] &lt; L ≤ 60 [1524] = +.2 [51] / -0</p> <p>60 [1524] &lt; L ≤ 120 [3048] = +.4 [102] / -0</p> <p>120 [3048] &lt; L ≤ 300 [7620] = +.6 [152] / -0</p> <p>300 [7620] &lt; L = +.9% L / -0</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF MILESTEK CORPORATION. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
	<p>Milestek 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</p> <p>CAGE CODE 4Z977</p> <p>DRAWN BY DFRISIELLO</p> <p>PART NUMBER MTC A00004</p>	<p>REV A</p>

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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