



## BNC Male to BNC Female Using Flexible RG58 Coax Cable

### RF Cable Assemblies Technical Data Sheet

MTCA00003

#### Configuration

- Connector 1: BNC Male
- Connector 2: BNC Female
- Cable Type: RG58

#### Features

- Max Frequency 4 GHz
- 65.9% Phase Velocity
- PVC (NC) Jacket

#### Applications

- General Purpose
- Laboratory Use

#### Description

MilesTek's MTCA00003 coaxial cable assembly is a BNC male to BNC female 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		4	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	4		GHz
Insertion Loss (Typ.)	0.014	0.049	0.2	0.5		dB/ft
	0.05	0.16	0.66	1.64		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 male connector and 0.2 dB for the female 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 to BNC Female Using Flexible RG58 Coax Cable MTCA00003](#)



## BNC Male to BNC Female Using Flexible RG58 Coax Cable

### RF Cable Assemblies Technical Data Sheet

MTCA00003

#### 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	BNC Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles		500
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	
Coupling Nut Plating Specification	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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Female Using Flexible RG58 Coax Cable MTCA00003](#)



## BNC Male to BNC Female Using Flexible RG58 Coax Cable

### RF Cable Assemblies Technical Data Sheet

MTCA00003

#### How to Order

Part Number Configuration:

**MTCA00003**

- **xx**

**uu**

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

Example: MTCA00003-12 = 12 inches long cable  
MTCA00003-100cm = 100 cm long cable

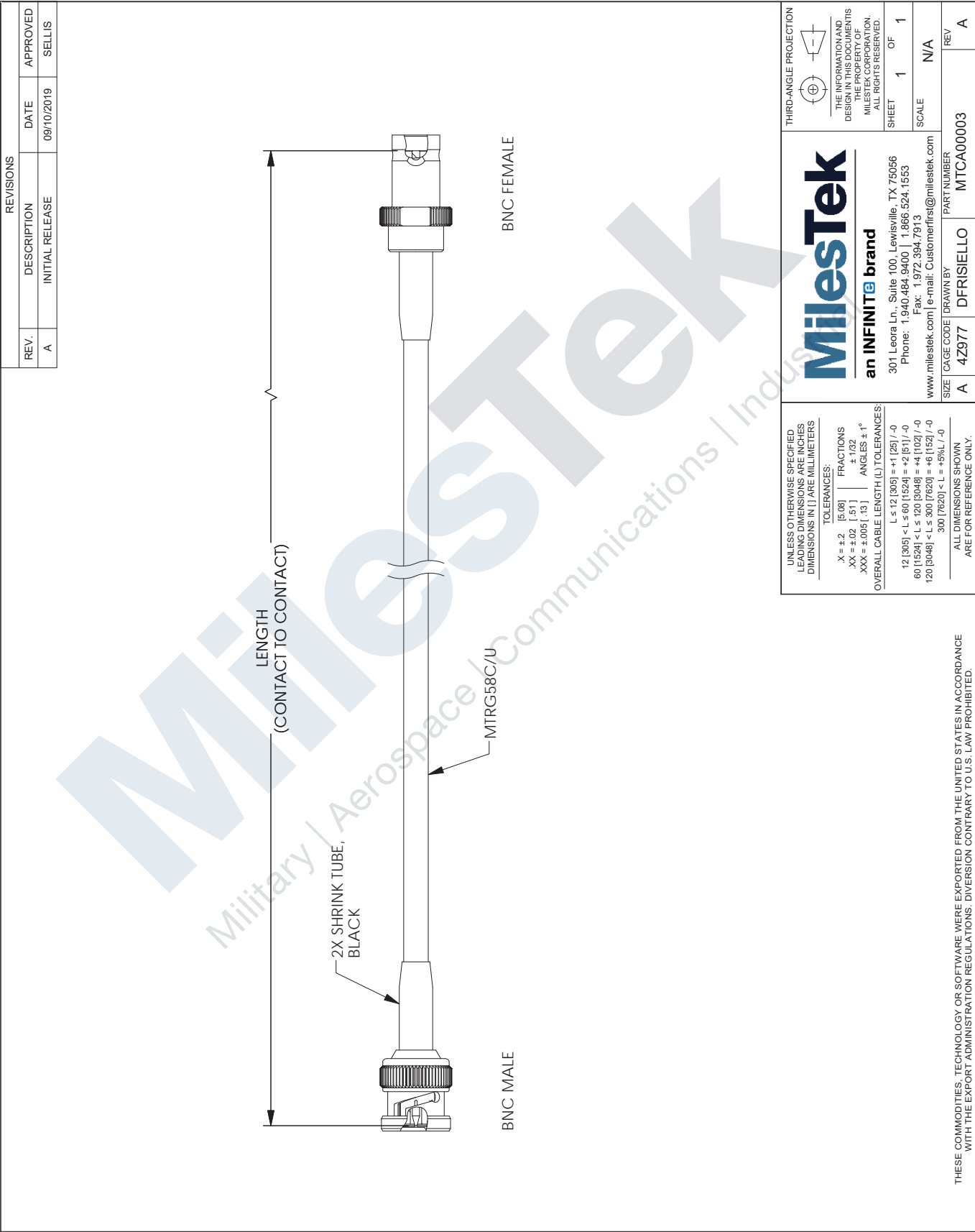
Our offering, used primarily in military, R&D and production applications, consists of a comprehensive line of MIL-STD-1553B data bus couplers, harnesses and cable assemblies, connectors and connector termination systems. MilesTek also offers expertise in manufacturing custom cable assemblies and harnesses.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BNC Male to BNC Female Using Flexible RG58 Coax Cable MTCA00003](https://www.milestek.com/BNC-Male-BNC-Female-MTRG58CU-MTCA00003-p.aspx)

URL: <https://www.milestek.com/BNC-Male-BNC-Female-MTRG58CU-MTCA00003-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.

MTCA00003 CAD Drawing  
BNC Male to BNC Female Using Flexible RG58 Coax Cable



T-Rev C