MilesTek
an INFINITE brand

BNC Female to BNC Female Using Flexible RG58 Coax Cable

RF Cable Assemblies Technical Data Sheet MTCA00007

Configuration

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

Features

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

Applications

- General Purpose
- Laboratory Use

Description

MilesTek's MTCA00007 coaxial cable assembly is a BNC female 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 0.2 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 Female to BNC Female Using Flexible RG58 Coax Cable MTCA00007

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Mechanical Specifications

Cable Assembly

Diameter	0.57 in [14.48 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 Female	BNC Female
Specification	MIL-STD-348A	MIL-STD-348A
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	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

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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How to Order

Part Number Configuration: **MTCA00007 - xx uu**

- uu — Unit of Measure: cm = Centimeters, <blank> = Inches
- xx — Length
- MTCA00007 — Base Number

Example: MTCA00007-12 = 12 inches long cable
MTCA00007-100cm = 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.

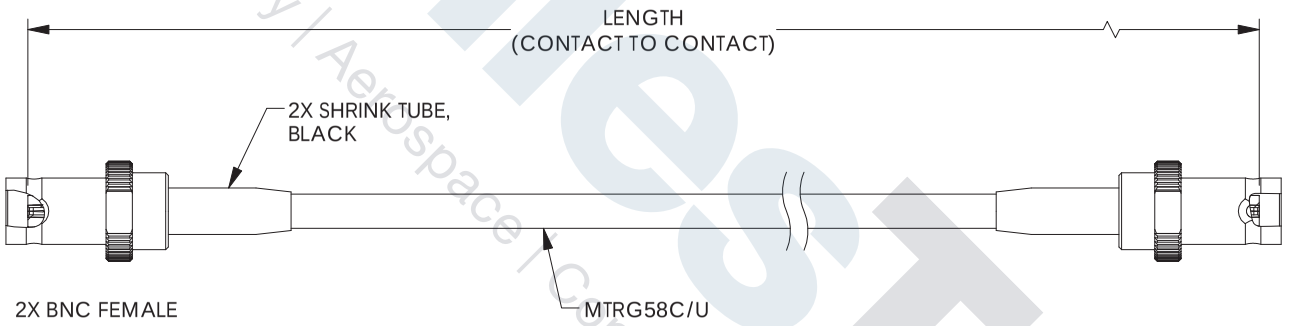
Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: BNC Female to BNC Female Using Flexible RG58 Coax Cable MTCA00007

URL: https://www.milestek.com/BNC-Female-BNC-Female-MTRG58CU-MTCA00007-p.aspx

MTCA00007 CAD Drawing

BNC Female to BNC Female Using Flexible RG58 Coax Cable

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	09/16/2019	SELLIS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS
.XX = ±.02 [.51]	± 1/32
.XXX = ±.005 [.13]	ANGLES ± 1°

OVERALL CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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THIRD-ANGLE PROJECTION

SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	PART NUMBER	REV
A	4Z977	DFRISIELLO	MTCA00007	A

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