

BNC Male to BNC Female Bulkhead Mount Using Flexible RG316 Coax Cable



RF Cable Assemblies Technical Data Sheet

MTCA00030

Configuration

• Connector 1: BNC Male

• Connector 2: BNC Female Bulkhead

• Cable Type: RG316

Features

Max Frequency 3 GHz

69% Phase Velocity

FEP Jacket

Applications

General Purpose

Laboratory Use

Description

MilesTek's MTCA00030 coaxial cable assembly is a BNC male to BNC female bulkhead mount using flexible RG316 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

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Description	Minimum	Typical	Maximum	Units
Frequency Range	DC	<i>O</i> .	3	GHz
VSWR			1.4:1	
Velocity of Propagation		69		%
Capacitance		29.4 [96.46]		pF/ft [pF/m]
DC Resistance Inner Conductor		8.41 [27.59]		Ω/1000ft [Ω/Km]
Operating Voltage (AC)			335	Vrms
Jacket Spark	/ \ \		2,000	Vrms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.05	0.1	0.4	1	3	GHz
Insertion Loss (Typ.)	0.075	0.11	0.21	0.38	0.58	dB/ft
	0.25	0.36	0.69	1.25	1.9	dB/m

Electrical Specification Notes:

Insertion Loss does not include the loss of the connectors. Insertion Loss is estimated as 0.1 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 to BNC Female Bulkhead Mount Using Flexible RG316 Coax Cable MTCA00030



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Mechanical Specifications

Cable Assembly

Diameter 0.689 in [17.5 mm]

Cable

Cable TypeRG316Impedance50 OhmsInner Conductor TypeStranded

Inner Conductor Material and Plating Copper Clad Steel, Silver

Dielectric Type PTFE
Number of Shields 1

Shield Layer 1 Silver Plated Copper Braid

Jacket Material FEP, Tan

Jacket Diameter 0.102 in [2.59 mm]

Connectors

Description	Connector 1	Connector 2	
Туре	BNC Male	BNC Female Bulkhead	
Specification	MIL-STD-348A		
Impedance	50 Ohms	50 Ohms	
Contact Material and Plating	Brass, Gold	Brass, Gold	
Contact Plating Specification	50μ in. minimum	30 µin minimum	
Dielectric Type	Teflon	PTFE	
Body Material and Plating	Brass, Nickel	Brass, Nickel	
Body Plating Specification	100μ in. minimum	100 μin minimum	
Coupling Nut Material and Plating	Brass, Nickel		
Coupling Nut Plating Specification	100μ in. minimum		

Environmental Specifications

Temperature

Operating Range -55 to +165 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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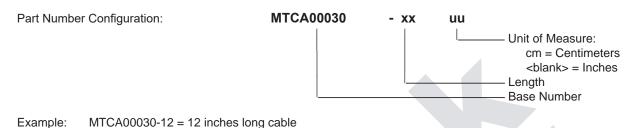
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How to Order



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 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 Bulkhead Mount Using Flexible RG316 Coax Cable MTCA00030

URL: https://www.milestek.com/BNC-Male-BNC-Female-MTRG316U-MTCA00030-p.aspx

MTCA00030-100cm = 100 cm long cable

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.

