



## N Male Right Angle to N Male Right Angle Using Flexible RG316 Coax Cable

### RF Cable Assemblies Technical Data Sheet

MTCA00043

#### Configuration

- Connector 1: N Male Right Angle
- Connector 2: N Male Right Angle
- Cable Type: RG316

#### Features

- Max Frequency 2.5 GHz
- FEP Jacket
- 500 Mating Cycles

#### Applications

- General Purpose
- Laboratory Use

#### Description

MilesTek's MTCA00043 coaxial cable assembly is a N male right angle to N male right angle 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

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.5	GHz
VSWR			1.4:1	
Capacitance		32 [104.99]		pF/ft [pF/m]

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency	0.05	0.1	0.4	1	2.5	GHz
Insertion Loss (Typ.)	0.075	0.11	0.21	0.38	0.53	dB/ft
	0.25	0.36	0.69	1.25	1.74	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.

#### Mechanical Specifications

##### Cable Assembly

Diameter 0.8 in [20.32 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to N Male Right Angle Using Flexible RG316 Coax Cable MTCA00043](#)



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Weight 0.223 lbs [101.15 g]

#### Cable

Cable Type	RG316
Impedance	50 Ohms
Inner Conductor Type	Stranded
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	0.098 in [2.49 mm]

#### Connectors

Description	Connector 1	Connector 2
Type	N Male Right Angle	N Male Right Angle
Impedance	50 Ohms	50 Ohms
Mating Cycles	500	500
Contact Material and Plating	Brass, Gold	Brass, Gold
Dielectric Type	Teflon	Teflon
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Coupling Nut Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

**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:

**MTCA00043**

- **xx uu**

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

Example: MTCA00043-12 = 12 inches long cable  
MTCA00043-100cm = 100 cm long cable

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [N Male Right Angle to N Male Right Angle Using Flexible RG316 Coax Cable MTCA00043](#)



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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: [N Male Right Angle to N Male Right Angle Using Flexible RG316 Coax Cable MTCA00043](https://www.milestek.com/N-Male-N-Male-MTRG316U-MTCA00043-p.aspx)

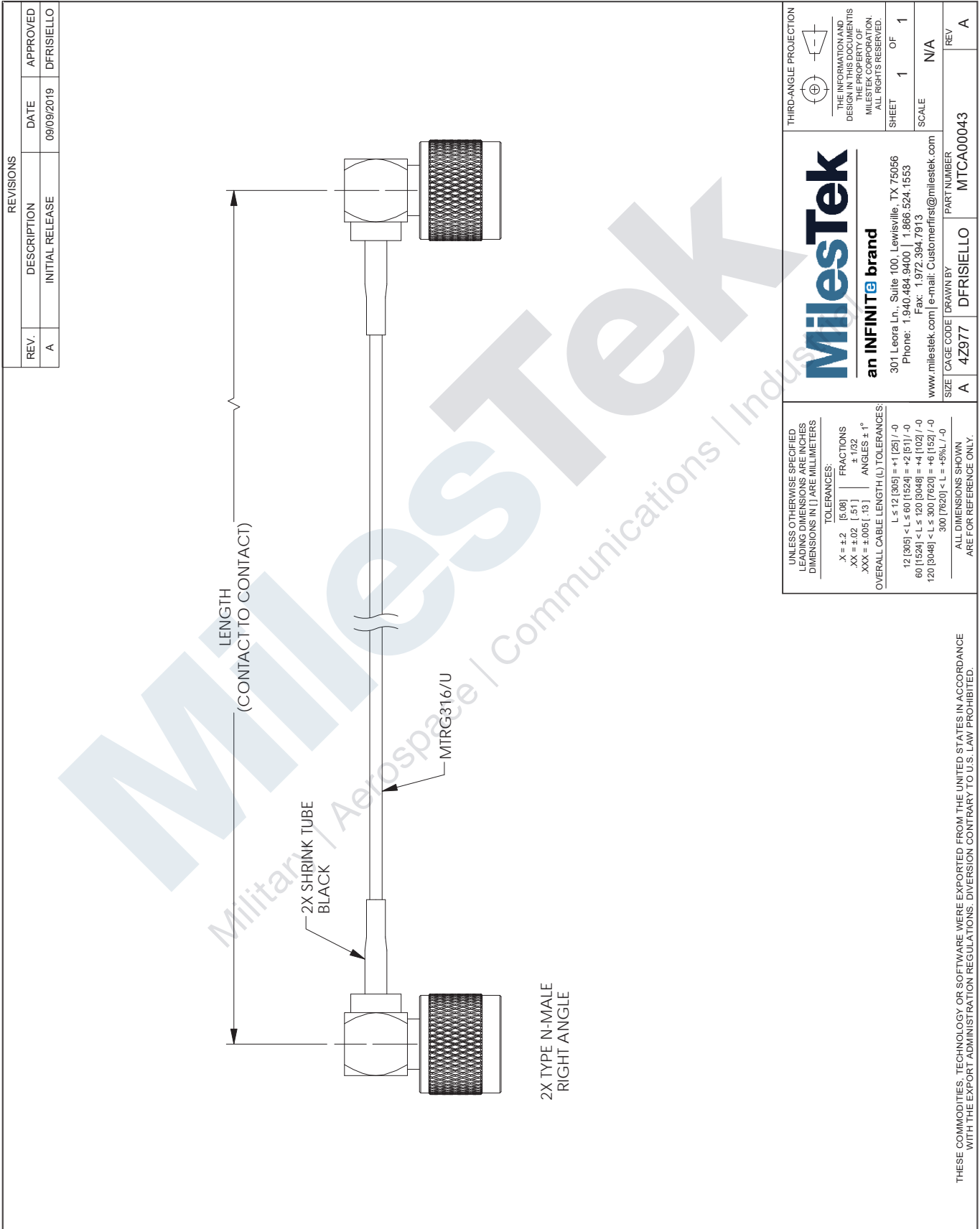
URL: <https://www.milestek.com/N-Male-N-Male-MTRG316U-MTCA00043-p.aspx>

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.



# MTCA00043 CAD Drawing

N Male Right Angle to N Male Right Angle Using Flexible RG316 Coax Cable



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

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>X = ±.2 [5.08] FRACTIONS ± 1/32                  XX = ±.02 [.51] ANGLES ± 1°                  XXX = ±.005 [.13]</p> <p>OVERALL CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = +1 [25] / -0                  12 [305] &lt; L ≤ 60 [1524] = +2 [51] / -0                  60 [1524] &lt; L ≤ 120 [3048] = +4 [102] / -0                  120 [3048] &lt; L ≤ 300 [7620] = +6 [152] / -0                  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>
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<p>SIZE A</p> <p>CAGE CODE 4Z977</p> <p>DRAWN BY DFRISIELLO</p> <p>PART NUMBER MTC00043</p>	<p>REV A</p>

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