# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



### 1671A Coax - 50 Ohm Microwave Cable

For more Information please call

1-800-Belden1



# **General Description:**

RG-405/U type, 24 AWG solid .020" silver-plated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), unjacketed.

# **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	24	Solid	SPCCS - Silver Plated Copper Covered Steel	0.508

**Total Number of Conductors:** 

#### Insulation

#### **Insulation Material:**

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	TFE - Tetrafluoroethylene	1.5748

#### **Outer Shield**

#### **Outer Shield Material:**

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Copper Foil	100
2	Braid	Tin-Filled Composite	100

# **Outer Jacket**

### **Outer Jacket Material:**



# **Overall Cable**

Overall Nominal Diameter: 2.159 mm

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-70°C To +200°C		
UL Temperature Rating:	105°C		
Non-UL Temperature Rating:	200°C		
Bulk Cable Weight:	17.858 Kg/Km		
Max. Recommended Pulling Tension:	115.653 N		
Min. Bend/Installation:	3.175 mm		
Min. Flexing Radius:	0.953 cm		

# **Applicable Specifications and Agency Compliance (Overall)**

## **Applicable Standards & Environmental Programs**

UL Style 10245
Yes
Yes
Yes

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EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	405/U
Flame Test	
Other Flame Test:	Horizontal Wire
Suitability	
Suitability - Indoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:

**VP (%)** 69.5

**Nominal Delay:** 

**Delay (ns/m)** 4.79026

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 210.64

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 33.4662

Maximum VSWR:

Freq. (MHz)	Max. VSWR
500	1.1:1
20000	1.3:1

#### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
500	49.215
1000	72.8382
2000	107.617
3000	135.177
5000	180.127
7000	217.858
10000	266.417
15000	334.662
18000	370.753
20000	393.72

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# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



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#### Max. Power Rating:

Freq. (MHz)	Rating (W)
500	180
1000	119
2000	79
3000	62
5000	46
7000	37
10000	30
15000	24
18000	21
20000	20

#### Max. Operating Voltage - UL:

Voltage 30 V RMS (UL AWM Style 10245)

#### Max. Operating Voltage - Non-UL:

Voltage 1500 V RMS

Other Electrical Characteristic 1:

Shield effectiveness values are typical/nominal values.

#### Shield Effectiveness:

Freq. (MHz)	Effectiveness (dB)
9000.000	120.000

### Misc. Information (Overall)

#### **Notes (Overall)**

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1671A TIN100	30 MT	0.862 KG	TIN - COLOR		#24 TFE BRD TINNED COAX
1671A TIN1000	305 MT	5.443 KG	TIN - COLOR	V	#24 TFE BRD TINNED COAX
1671A TIN50	15 MT	0.499 KG	TIN - COLOR		#24 TFE BRD TINNED COAX
1671A TIN500	152 MT	2.948 KG	TIN - COLOR	V	#24 TFE BRD TINNED COAX

V = 250' PUT-UP EXACT LENGTH MAXIMUM OF 3 PIECESMINIMUM LENGTH 50'500' PUT-UP EXACT LENGTH MAXIMUM OF 5 PIECESMINIMUM LENGTH 50'

Revision Date: 01-15-2014 Revision Number: 6

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