

## 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: 1

#### 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:

Outer Jacket Material
Unjacketed

#### Overall Cable

Overall Nominal Diameter: 2.159 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
UL Temperature Rating:	105°C (UL AWM Style 10245)
Non-UL Temperature Rating:	200°C
Bulk Cable Weight:	17.858 Kg/Km
Max. Recommended Pulling Tension:	115.653 N
Min. Bend Radius/Minor Axis:	3.048 mm
Min. Bend Radius (Continuous Flexing):	9.398 mm
Min. Bend Radius (Overall):	25.400 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

AWM Specification:	UL Style 10245 (30 V 105°C)
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes

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
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
50

### Nom. Inductance:

Inductance (µH/m)
0.22967

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
96.7895

### 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

**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

**Notes:**

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

### Test Reports

**a) UL**

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

**b) CSA**

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

\* other test data may be available if requested at time of order.

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)