

## 1671A Coax - 50 Ohm Microwave Cable

For more Information  
please call

1-800-Belden1



### 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. (in.)
1	24	Solid	SPCCS - Silver Plated Copper Covered Steel	.020

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.062

#### 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: 0.085 in.

### 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:	11.900 lbs/1000 ft.
Max. Recommended Pulling Tension:	26 lbs.
Min. Bend Radius (Install)/Minor Axis:	0.120 in.
Min. Bend Radius (Continuous Flexing):	0.370 in.

### 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
MIL 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 ( $\mu$ H/ft)

.07

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

29.5

### Nominal Velocity of Propagation:

VP (%)

69.5

### Nominal Delay:

Delay (ns/ft)

1.46

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

64.2

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.2

### Maximum VSWR:

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

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
500	15.0
1000	22.2
2000	32.8
3000	41.2
5000	54.9
7000	66.4
10000	81.2
15000	102
18000	113
20000	120

### 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:** US Patents 4, 694, 122 & 5, 293, 001. Patent held in the U.S., Singapore, Australia, Germany, France, and England. Patent pending in Japan. Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1671A TIN100	100 FT	1.900 LB	TIN - COLOR		#24 TFE BRD TINNED COAX
1671A TIN1000	1,000 FT	12.000 LB	TIN - COLOR	V	#24 TFE BRD TINNED COAX
1671A TIN50	50 FT	1.100 LB	TIN - COLOR		#24 TFE BRD TINNED COAX
1671A TIN500	500 FT	6.500 LB	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'

Revision Number: 4    Revision Date: 11-16-2010

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