

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

Total Number of Conductors: 1

**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:	12 lbs/1000 ft.
Max. Recommended Pulling Tension:	26 lbs.
Min. Bend Radius/Minor Axis:	0.120 in.
Min. Bend Radius (Continuous Flexing):	0.370 in.
Min. Bend Radius (Overall):	1 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

AWM Specification:	UL Style 10245 (30 V 105°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes

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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	405/U
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**Flame Test**

Other Flame Test:	Horizontal Wire
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**Suitability**

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
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50
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**Nom. Inductance:**

Inductance (µH/ft)
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.07
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**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/ft)
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29.5
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**Nominal Velocity of Propagation:**

VP (%)
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69.5
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**Nominal Delay:**

Delay (ns/ft)
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1.46
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**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
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64.2
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**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)
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10.2
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**Maximum VSWR:**

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

Freq. (MHz)	Attenuation (dB/100 ft.)
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500	15.0
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1000	22.2
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2000	32.8
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3000	41.2
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5000	54.9
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7000	66.4
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10000	81.2
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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:** 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	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'

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