

## 1671B Coax - 50 Ohm Microwave Cables

For more Information  
please call

1-800-Belden1

**Description:**

RG-405/U type, 24 AWG solid .020" silver-plated copper 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	SPC - Silver Plated Copper	.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

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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/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)
25.7

## 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:

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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

**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
1671B TIN500	500 FT	6.500 LB	TIN - COLOR	E	#24 TFE CU FS BRD TINNED COAX

**Notes:**

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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