

## 1675A Coax - 50 Ohm Microwave Cable

For more Information  
please call

1-800-Belden1



### Description:

RG-401/U type, 14 AWG solid .065" 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	14	Solid	SPC - Silver Plated Copper	.065

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.210

#### 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: 0.246 in.

### 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: 81 lbs/1000 ft.

Max. Recommended Pulling Tension: 122 lbs.

Min. Bend Radius (Install)/Minor Axis: 0.370 in.

Min. Bend Radius (Continuous Flexing): 1.120 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

AWM Specification: UL Style 10245

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:	401/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)

0.070

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

29.6

### Nominal Velocity of Propagation:

VP (%)

69.5

### Nominal Delay:

Delay (ns/ft)

1.46

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.5

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

8

### Maximum VSWR:

Description	Freq. (MHz)	Max. VSWR
Ramp Function, End Points	400	1.1
	1800	1.38

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
400	3.8
500	4.4
1000	6.8
2000	10.4
3000	13.4
5000	18.5
7000	22.8
10000	28.4
15000	36.6
18000	41.0

### Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
400	5.0
500	5.7
1000	8.8
3000	17.3
5000	23.8
10000	36.6
18000	52.8

**Nom. Power Rating:**

Freq. (MHz)	Rating (W)
400	1900
500	1665
1000	1105
2000	733
3000	577
5000	427
7000	350
10000	283
15000	223
18000	200

**Max. Operating Voltage - UL:**

Voltage
30 V RMS

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

Voltage
2900 V RMS

**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
1675A TIN100	100 FT	8.100 LB	TIN - COLOR	E	#14 TFE CU FS BRD TINNED COAX
1675A TIN500	500 FT	40.500 LB	TIN - COLOR	C E	#14 TFE CU FS BRD TINNED COAX

**Notes:**

C = CRATE REEL PUT-UP.

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

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.