

## 1674B Coax - 50 Ohm Microwave Cable

For more Information  
please call

1-800-Belden1



### Description:

M17/151 type, 29 AWG solid .011" 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	29	Solid	SPC - Silver Plated Copper	.011

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.034

#### 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: 0.047 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:	3.750 lbs/1000 ft.
Max. Recommended Pulling Tension:	20 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
MII Order #39 (China RoHS):	Yes
RG Type:	M17/151

### 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)

81.2

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

8

### Maximum VSWR:

Freq. (MHz)	Max. VSWR
500	1.16:1
1000	1.17:1
3000	1.20:1
5000	1.24:1
10000	1.33:1
15000	1.41:1
18000	1.50:1
20000	1.50:1

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
500	25.0
1000	36.7
2000	53.8
3000	67.3
5000	89.2

7000	107.5
10000	130.9
15000	163.8
18000	181.1
20000	192.0

### Max. Power Rating:

Freq. (MHz)	Rating (W)
500	45
1000	31
2000	22
3000	18
5000	13
7000	11
10000	9.3
15000	7.6
18000	6.9
20000	6.5

### Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 10245)

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

Voltage
1000 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
1674B TIN500	500 FT	2.000 LB	TIN - COLOR	E	#29 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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