# **Detailed Specifications & Technical Data**

**ENGLISH MEASUREMENT VERSION** 



## 1674B Coax - 50 Ohm Microwave Cable

For more Information please call

1-800-Belden1



# **General 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

Total Number of Conductors:

1

#### 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:**



#### **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/Minor Axis:	0.120 in.
Min. Bend Radius (Continuous Flexing):	0.370 in.

# **Applicable Specifications and Agency Compliance (Overall)**

## **Applicable Standards & Environmental Programs**

UL Style 10245 (30 V 105°C)		
Yes		
Yes		
Yes		

Page 1 of 3 02-14-2013

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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
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



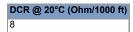
Nominal Delay:



Nom. Conductor DC Resistance:



**Nominal Outer Shield DC Resistance:** 



#### 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

Page 2 of 3 02-14-2013

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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: 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
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'

Revision Number: 2 Revision Date: 11-13-2012

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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.

Page 3 of 3 02-14-2013