# **Detailed Specifications & Technical Data**

**METRIC MEASUREMENT VERSION** 



### 1674A 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-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), unjacketed.

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## **Physical Characteristics (Overall)**

### Conductor

AWG:

#	Coax	AWG	_	Conductor Material	Dia. (mm)
1		29	Solid	SPCCS - Silver Plated Copper Covered Steel	0.2794

Total Number of Conductors:

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	TFE - Tetrafluoroethylene	0.8636

#### **Outer Shield**

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Таре	Copper Foil	100
2	Braid	Tin-Filled Composite	100

### **Outer Jacket**

### Outer Jacket Material:

Outer Jacket Material Unjacketed

### **Overall Cable**

Overall Nominal Diameter: 1.194 mm

### **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:	4.465 Kg/Km
Max. Recommended Pulling Tension:	88.964 N
Min. Bend/Installation:	3.175 mm
Min. Flexing Radius:	0.953 cm

### **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:	No
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

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Fla	Flame Test		
	Other Flame Test:	Horizontal Wire	
	itability		
	Suitability - Indoor:	Yes	
	Suitability - Outdoor:	Yes	
Ple	Plenum/Non-Plenum		
	Plenum (Y/N):	No	

### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)	
50	l

Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:

DCR @ 20°C	(Ohm/km)
672.605	

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
26.248

### 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/100m)
500	82.025
1000	120.413
2000	176.518
3000	220.811
5000	292.665
7000	352.708
10000	429.483
15000	537.428
18000	594.189
20000	629.952

## 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

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18000	6.9
20000	6.5

Max. Operating Voltage - UL:

30 V RMS (UL AWM Style 10245)

Max. Operating Voltage - Non-UL:

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
1674A TIN100	100 FT	0.200 LB	TIN - COLOR		#29 TFE BRD TINNED COAX
1674A TIN1000	1,000 FT	4.000 LB	TIN - COLOR		#29 TFE BRD TINNED COAX
1674A TIN50	50 FT	0.100 LB	TIN - COLOR		#29 TFE BRD TINNED COAX
1674A TIN500	500 FT	2.000 LB	TIN - COLOR		#29 TFE BRD TINNED COAX

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