

## 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.

**Physical Characteristics (Overall)****Conductor**

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	29	Solid	SPCCS - Silver Plated Copper Covered Steel	.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:

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 lbs/1000 ft.
Max. Recommended Pulling Tension:	20 lbs.
Min. Bend/Installation:	0.125 in.
Min. Flexing Radius:	0.375 in.

**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
MIL 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)
205.0

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

1674A Coax - 50 Ohm Microwave Cable

18000	6.9
20000	6.5

Max. Operating Voltage - UL:

<b>Voltage</b>
30 V RMS (UL AWM Style 10245)

Max. Operating Voltage - Non-UL:

<b>Voltage</b>
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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