

1673A Coax - 50 Ohm Microwave Cable

For more Information
please call

1-800-Belden1

**Description:**

RG-402/U type, 19 AWG solid .036" 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. (mm)
1	19	Solid	SPCCS - Silver Plated Copper Covered Steel	0.9144

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	TFE - Tetrafluoroethylene	2.9464

Outer Shield

Outer Shield Material:

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

Overall Cabling

Overall Nominal Diameter: 3.505 mm

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: 29.764 Kg/Km

Max. Recommended Pulling Tension: 311.374 N

Min. Bend Radius (Install)/Minor Axis: 6.350 mm

Min. Bend Radius (Continuous Flexing): 19.050 mm

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

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MII Order #39 (China RoHS):	Yes
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RG Type:	402/U
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Flame Test

Other Flame Test:	Horizontal Wire
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Suitability

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)

50

Nom. Inductance:

Inductance (µH/m)

0.22967

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

96.7895

Nominal Velocity of Propagation:

VP (%)

69.5

Nominal Delay:

Delay (ns/m)

4.79026

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

67.2605

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

14.7645

Maximum VSWR:

Description	Freq. (MHz)	Max. VSWR
Ramp Function, End Points	500	1.1
	20000	1.3

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
500	26.248
1000	39.372
2000	59.3861
3000	75.1349
5000	101.711
7000	124.022
10000	152.895
15000	193.907
18000	215.89
20000	229.67

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
500	31.1695
1000	47.5745
3000	86.9465

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5000	118.116
10000	177.174
20000	275.604

Nom. Power Rating:

Freq. (MHz)	Rating (W)
500	600
1000	401
2000	268
3000	211
5000	157
7000	129
10000	105
15000	83
18000	74
20000	70

Max. Operating Voltage - UL:

Voltage
30 V RMS

Max. Operating Voltage - Non-UL:

Voltage
1900 V RMS

Misc. Information (Overall)**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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1673A TIN100	30 MT	1.406 KG	TIN - COLOR	C	#19 TFE BRD TINNED COAX
1673A TIN250	76 MT	3.289 KG	TIN - COLOR	C V	#19 TFE BRD TINNED COAX
1673A TIN50	15 MT	0.816 KG	TIN - COLOR		#19 TFE BRD TINNED COAX
1673A TIN500	152 MT	6.350 KG	TIN - COLOR		#19 TFE BRD TINNED COAX

Notes:

C = CRATE REEL PUT-UP.

V = 250' PUT-UP EXACT LENGTH MAXIMUM OF 3 PIECES MINIMUM LENGTH 50' 500' PUT-UP EXACT LENGTH MAXIMUM OF 5 PIECES MINIMUM LENGTH 50'

Revision Number: 2 Revision Date: 09-30-2009

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