

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1673B 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 conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), unjacketed.

Physical Characteristics (Overall)

Conductor

AWG:

#	Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1		19	Solid	SPC - Silver Plated Copper	.036

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.116

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: 0.138 in.

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: 20 lbs/1000 ft.

Max. Recommended Pulling Tension: 70 lbs.

Min. Bend Radius/Minor Axis: 0.250 in.

Min. Bend Radius (Continuous Flexing): 0.750 in.

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

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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:	402/U

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 (μ H/ft)
0.070

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)
7.9

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.5

Maximum VSWR:

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

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
500	8.0
1000	12.0
2000	18.1
3000	22.9
5000	31.0
7000	37.8
10000	46.6
15000	59.1
18000	65.8
20000	70.0

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Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
500	9.5
1000	14.5
3000	26.5
5000	36.0
10000	54.0
20000	84.0

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
1673B TIN100	100 FT	3.100 LB	TIN - COLOR	E	#19 TFE CU FS BRD TINNED COAX
1673B TIN250	250 FT	8.000 LB	TIN - COLOR	E	#19 TFE CU FS BRD TINNED COAX
1673B TIN500	500 FT	14.000 LB	TIN - COLOR	E	#19 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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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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Mouser Electronics

Authorized Distributor

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