Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



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. (in.)
1	19	Solid	SPCCS - Silver Plated Copper Covered Steel	.036

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

Overall Cabling

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 (Install)/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
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 (Ch	ina RoHS):	Yes	
RG Type:		402/U	
Flame Test			
Other Flame Test	:	Horizontal Wire	
Suitability			
Suitability - Indoo	or:	Yes	
Suitability - Outd	oor:	Yes	
Plenum/Non-Plenu	m		
Plenum (Y/N):		No	

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 50

Nom. Inductance:

Inductance (µH/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) 20.5

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

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
500	9.5
1000	14.5
3000	26.5

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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
1673A TIN100	100 FT	3.100 LB	TIN - COLOR	С	#19 TFE BRD TINNED COAX
1673A TIN250	250 FT	7.250 LB	TIN - COLOR	CV	#19 TFE BRD TINNED COAX
1673A TIN50	50 FT	1.800 LB	TIN - COLOR		#19 TFE BRD TINNED COAX
1673A TIN500	500 FT	14.000 LB	TIN - COLOR		#19 TFE BRD TINNED COAX

Notes:

C = CRATE REEL PUT-UP.

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

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

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