# **Detailed Specifications & Technical Data**

# **ENGLISH MEASUREMENT VERSION**



# 1673A Coax - 50 Ohm Microwave Cable

For more Information please call

1-800-Belden1



# **General 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

Total Number of Conductors:

#### 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 Cable**

Overall Nominal Diameter: 0.138 in.

<b>Mechanical Characteris</b>	tics (Overall)
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Operating Temperature Range:	-70°C To +200°C
UL Temperature Rating:	105°C
Non-UL Temperature Rating:	200°C
Bulk Cable Weight:	26 lbs/1000 ft.
Max. Recommended Pulling Tension:	70 lbs.
Min. Bend/Installation:	0.250 in.
Min. Flexing Radius:	0.750 in.

# **Applicable Specifications and Agency Compliance (Overall)**

# Applicable Standards & Environmental Programs

Flame Test	
RG Type:	402/U
MII Order #39 (China RoHS):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2002/96/EC (WEEE):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
EU Directive 2002/95/EC (RoHS):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU CE Mark:	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
AWM Specification:	UL Style 10245

Flame Les

Other Flame Test: Horizontal Wire

Suitability

Page 1 of 3 01-05-2017

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Suitability - Indoor:	Yes	
Plenum/Non-Plenum		
Plenum (Y/N):	No	
Floatrical Characteristics (Ov		

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:

Inductance (µH/ft) 0.070

Nom. Capacitance Conductor to Shield:



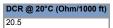
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)	l
4.5	ı

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
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:

Page 2 of 3 01-05-2017

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Voltage 30 V RMS

Max. Operating Voltage - Non-UL:

Voltage 1900 V RMS

## Misc. Information (Overall)

#### 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
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: 4 Revision Date: 01-15-2014

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product.

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Page 3 of 3