

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

hysical Characteristics (Overall)	
Conductor	
AWG:	
# Coax   AWG   Stranding   Conductor   Material   I     1   19   Solid   SPC - Silver Plated Copper   0	Dia. (mm)
Total Number of Conductors:	1
nsulation Insulation Material:	
	ı. (mm)
Teflon® TFE - Tetrafluoroethylene 2.94	464
Outer Shield Outer Shield Material:	
Layer # Type Outer Shield Material Coverage (%)	
1 Tape Copper Foil 100	
2 Braid Tin-Filled Composite 100	
Duter Jacket	
Outer Jacket Material: Outer Jacket Material	
Unjacketed	
Dverall Cable	
	3 505 mm
Overall Nominal Diameter:	3.505 mm
	3.505 mm
Overall Nominal Diameter:	3.505 mm -70°C To +200°C
Overall Nominal Diameter:	
Overall Nominal Diameter: lechanical Characteristics (Overall) Operating Temperature Range:	-70°C To +200°C
Overall Nominal Diameter: lechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating:	-70°C To +200°C 105°C
Overall Nominal Diameter: lechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Non-UL Temperature Rating:	-70°C To +200°C 105°C 200°C
Overall Nominal Diameter: lechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Non-UL Temperature Rating: Bulk Cable Weight:	-70°C To +200°C 105°C 200°C 37.205 Kg/Km
Overall Nominal Diameter: lechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Non-UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension:	-70°C To +200°C 105°C 200°C 37.205 Kg/Km 311.374 N
Overall Nominal Diameter: lechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Non-UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend/Installation:	-70°C To +200°C 105°C 200°C 37.205 Kg/Km 311.374 N 6.350 mm 1.905 cm
Overall Nominal Diameter: lechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Non-UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend/Installation: Min. Flexing Radius:	-70°C To +200°C 105°C 200°C 37.205 Kg/Km 311.374 N 6.350 mm 1.905 cm mpliance (Overall)
Overall Nominal Diameter: lechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Non-UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend/Installation: Min. Flexing Radius: pplicable Specifications and Agency Co	-70°C To +200°C 105°C 200°C 37.205 Kg/Km 311.374 N 6.350 mm 1.905 cm mpliance (Overall)
Overall Nominal Diameter:   lechanical Characteristics (Overall)   Operating Temperature Range:   UL Temperature Rating:   Non-UL Temperature Rating:   Bulk Cable Weight:   Max. Recommended Pulling Tension:   Min. Bend/Installation:   Min. Flexing Radius:   pplicable Specifications and Agency Co   Applicable Standards & Environmental Program	-70°C To +200°C 105°C 200°C 37.205 Kg/Km 311.374 N 6.350 mm 1.905 cm mpliance (Overall) rams
Overall Nominal Diameter: lechanical Characteristics (Overall) Operating Temperature Range: UL Temperature Rating: Non-UL Temperature Rating: Bulk Cable Weight: Max. Recommended Pulling Tension: Min. Bend/Installation: Min. Flexing Radius: pplicable Specifications and Agency Co Applicable Standards & Environmental Progr AWM Specification:	-70°C To +200°C 105°C 200°C 37.205 Kg/Km 311.374 N 6.350 mm 1.905 cm mpliance (Overall) rams UL Style 10245

# **Detailed Specifications & Technical Data**





## 1673B Coax - 50 Ohm Microwave Cable

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
MII Order #39 (China RoHS):	Yes
RG Type:	402/U
Flame Test	
Other Flame Test:	Horizontal Wire
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No
Plenum (Y/N): Electrical Characteristics (Overall)	No
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) 25.9199

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

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#### METRIC MEASUREMENT VERSION

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18000	215.89
20000	229.67

#### Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
500	31.1695
1000	47.5745
3000	86.9465
5000	118.116
10000	177.174
20000	275.604

#### Nom. Power Rating:

Freq. (MHz)	Rating (W)
500	600
1000	401
2000	268
3000	211

3000	211
5000	157
7000	129
10000	105
15000	83
18000	74
20000	70

#### Max. Operating Voltage - UL:



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
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'

**Revision Number: 4** Revision Date: 01-15-2014

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METRIC MEASUREMENT VERSION

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determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).