

## 1673B

Part Number: 1673B

50 Ohm Microwave Cable



### Product Description

RG-402/U type, 19 AWG solid .036" silver-plated copper conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), unjacketed.

### Product Specifications

#### Conductor

Total Number of Conductors:	1
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### Technical Specifications

#### APAC Standard

MIL Order #39 (China RoHS):	Yes
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#### Bend Radius

Min Bend Radius (Overall):	1.5 in
Min Bend Radius/Installation:	0.25 in
Min Flexing Radius:	0.75 in

#### CCB-Part Number

Notes:	Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
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#### CCB-Sub-Part Number

Plenum (Y/N):	No
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### Contact Information

PHONE_NUM:	1-800-Belden1
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## EMEA Standard

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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## Environmental Characteristics

Operating Temp Range:	-70°C To +200°C
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Suitability - Indoor:	Yes
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## EU Directive

EU CE Mark:	Yes
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EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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## North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
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RG Type:	402/U
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UL AWM Style:	UL Style 10245
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## Safety

Other Flammability:	Horizontal Wire
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## Temperature Range

Non-UL Temp Rating:	200°C
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UL Temp Rating:	105°C
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## Use

Suitability - Outdoor:	Yes
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Max Recommended Pulling Tension:	70 lbs
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## Impedance:

### Nominal Characteristic Impedance

50 Ohm
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## Inductance:

**Nominal Inductance**0.07  $\mu$ H/ft**Conductor DCR:****Nominal Conductor DCR**

7.9 Ohm/1000ft

**Nominal Outer Shield DCR**

4.5 Ohm/1000ft

**Power Rating:****Frequency [MHz]****Nominal Power Rating [W]**

500 MHz

600 W

1,000 MHz

401 W

2,000 MHz

268 W

3,000 MHz

211 W

5,000 MHz

157 W

7,000 MHz

129 W

10,000 MHz

105 W

15,000 MHz

83 W

18,000 MHz

74 W

20,000 MHz

70 W

**Delay:****Nominal Delay**

1.46 ns/ft

**Nominal Velocity of Propagation (VP)**

69.5 %

**Voltage:****Non-UL Voltage Rating**

1900V RMS

**UL Voltage Rating**

30V RMS

**High Freq:****Frequency [MHz]****Max. Insertion Loss (Attenuation)**

500 MHz

9.5 db/100ft

1000 MHz

14.5 db/100ft

3000 MHz

26.5 db/100ft

5000 MHz	36 db/100ft
10000 MHz	54 db/100ft
20000 MHz	84 db/100ft

**VSWR:**

Element	Frequency [MHz]	Max. VSWR
Ramp Function, End Points	500 MHz	1.1
	20000 MHz	1.3

**Capacitance:**

Nominal Capacitance Conductor to Shield
29.5 pF/ft

**High Frequency (Nominal/Typical):**

Frequency (MHz)	Nom. Insertion Loss
500 MHz	8 db/100ft
1000 MHz	12 db/100ft
2000 MHz	18.1 db/100ft
3000 MHz	22.9 db/100ft
5000 MHz	31 db/100ft
7000 MHz	37.8 db/100ft
10000 MHz	46.6 db/100ft
15000 MHz	59.1 db/100ft
18000 MHz	65.8 db/100ft
20000 MHz	70 db/100ft

**Insulation:**

Material	Material Trade Name	Nominal Diameter
TFE - Tetrafluoroethylene	Teflon®	0.116 in

**Outerjacket 1:**

Material	Nominal Diameter
Unjacketed	0.138 in

**Conductor:**

AWG	Stranding	Material	Nominal Diameter	No. of Coax
19	Solid	SPC - Silver Plated Copper	0.036 in	1

**Outershield 1:**

Type	Layer	Material	Coverage
Tape	1	Copper Foil	100 %
Braid	2	Tin-Filled Composite	100 %

**Product Variants**

Part Number	Color	Put-Up Type	Length
1673B TIN100	TIN	Reel	100 ft
1673B TIN250	TIN	Reel	250 ft
1673B TIN500	TIN	Reel	500 ft

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