

## 1671B

Part Number: 1671B

50 Ohm Microwave Cables



### Product Description

RG-405/U type, 24 AWG solid .020" 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

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

Min Bend Radius (Overall):	1 in
Min Bend Radius/Installation:	0.125 in
Min Flexing Radius:	0.375 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
Suitability - Indoor:	Yes

## EU Directive

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

## North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
RG Type:	405/U
UL AWM Style:	UL Style 10245 (30 V 105°C)

## Safety

Other Flammability:	Horizontal Wire
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## Temperature Range

Non-UL Temp Rating:	200°C
UL Temp Rating:	105°C (UL AWM Style 10245)

## Use

Suitability - Outdoor:	Yes
Max Recommended Pulling Tension:	26 lbs

## Impedance:

Nominal Characteristic Impedance
50 Ohm

## Inductance:

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

25.7 Ohm/1000ft

10.2 Ohm/1000ft

**Power Rating:****Frequency [MHz]****Max. Power Rating [W]**

500 MHz

180 W

1,000 MHz

119 W

2,000 MHz

79 W

3,000 MHz

62 W

5,000 MHz

46 W

7,000 MHz

37 W

10,000 MHz

30 W

15,000 MHz

24 W

18,000 MHz

21 W

20,000 MHz

20 W

**Delay:****Nominal Delay****Nominal Velocity of Propagation (VP)**

1.46 ns/ft

69.5 %

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

1500V RMS

30V RMS (UL AWM Style 10245)

**VSWR:****Frequency [MHz]****Max. VSWR**

500 MHz

1.1:1

20000 MHz

1.3:1

**Capacitance:**

**Nominal Capacitance Conductor to Shield**

29.5 pF/ft

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

Frequency (MHz)	Nom. Insertion Loss
500 MHz	15 db/100ft
1000 MHz	22.2 db/100ft
2000 MHz	32.8 db/100ft
3000 MHz	41.2 db/100ft
5000 MHz	54.9 db/100ft
7000 MHz	66.4 db/100ft
10000 MHz	81.2 db/100ft
15000 MHz	102 db/100ft
18000 MHz	113 db/100ft
20000 MHz	120 db/100ft

**Insulation:**

Material	Material Trade Name	Nominal Diameter
TFE - Tetrafluoroethylene	Teflon®	0.062 in

**Outerjacket 1:**

Material	Nominal Diameter
Unjacketed	0.085 in

**Conductor:**

AWG	Stranding	Material	Nominal Diameter	No. of Coax
24	Solid	SPC - Silver Plated Copper	0.02 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
1671B TIN500	TIN	Reel	500 ft

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