

1671A

Part Number: 1671A

50 Ohm Microwave Cable



Product Description

RG-405/U type, 24 AWG solid .020" silver-plated copper-covered steel 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 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

General Electrical Parameters

Other Electrical Characteristic 1:	Shield effectiveness values are typical/nominal values.
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North American Standard

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

Safety

Other Flammability:	Horizontal Wire
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Temperature Range

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

Use

Max Recommended Pulling Tension:	26 lbs
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Impedance:

Nominal Characteristic Impedance
50 Ohm

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

64.2 Ohm/1000ft

Nominal Outer Shield DCR

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**

1.46 ns/ft

Nominal Velocity of Propagation (VP)

69.5 %

Voltage:**Non-UL Voltage Rating**

1500V RMS

UL Voltage Rating

30V RMS (UL AWM Style 10245)

Screening:**Frequency**

9000 MHz

Shield Effectiveness

120 dB

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	SPCCS - Silver Plated Copper Covered Steel	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
1671A TIN1000	TIN	Reel	1000 ft
1671A TIN100	TIN	Reel	100 ft
1671A TIN500	TIN	Reel	500 ft
1671A TIN50	TIN	Reel	50 ft

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