

1675A

Part Number: 1675A

50 Ohm Microwave Cable



Product Description

RG-401/U type, 14 AWG solid .065" 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):	2.5 in
Min Bend Radius/Installation:	0.375 in
Min Flexing Radius:	1.125 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:	401/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

Suitability - Outdoor:	Yes
Max Recommended Pulling Tension:	122 lbs

Impedance:

Nominal Characteristic Impedance
50 Ohm

Inductance:

Nominal Inductance0.07 μ H/ft**Conductor DCR:****Nominal Conductor DCR**

2.5 Ohm/1000ft

Nominal Outer Shield DCR

8 Ohm/1000ft

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

400 MHz

1,900 W

500 MHz

1,665 W

1,000 MHz

1,105 W

2,000 MHz

733 W

3,000 MHz

577 W

5,000 MHz

427 W

7,000 MHz

350 W

10,000 MHz

283 W

15,000 MHz

223 W

18,000 MHz

200 W

Delay:**Nominal Delay**

1.46 ns/ft

Nominal Velocity of Propagation (VP)

69.5 %

Voltage:**Non-UL Voltage Rating**

2900V RMS

UL Voltage Rating

30V RMS

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

400 MHz

5 db/100ft

500 MHz

5.7 db/100ft

1000 MHz

8.8 db/100ft

3000 MHz	17.3 db/100ft
5000 MHz	23.8 db/100ft
10000 MHz	36.6 db/100ft
18000 MHz	52.8 db/100ft

VSWR:

Element	Frequency [MHz]	Max. VSWR
Ramp Function, End Points	400 MHz	1.1
	1800 MHz	1.38

Capacitance:

Nominal Capacitance Conductor to Shield
29.6 pF/ft

High Frequency (Nominal/Typical):

Frequency (MHz)	Nom. Insertion Loss
400 MHz	3.8 db/100ft
500 MHz	4.4 db/100ft
1000 MHz	6.8 db/100ft
2000 MHz	10.4 db/100ft
3000 MHz	13.4 db/100ft
5000 MHz	18.5 db/100ft
7000 MHz	22.8 db/100ft
10000 MHz	28.4 db/100ft
15000 MHz	36.6 db/100ft
18000 MHz	41 db/100ft

Insulation:

Material	Material Trade Name	Nominal Diameter
TFE - Tetrafluoroethylene	Teflon®	0.21 in

Outerjacket 1:

Material	Nominal Diameter
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Unjacketed	0.246 in
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Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
14	Solid	SPC - Silver Plated Copper	0.065 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
1675A TIN100	TIN	Reel	100 ft
1675A TIN500	TIN	Reel	500 ft

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