

1673A

Part Number: 1673A

50 Ohm Microwave Cable



Product Description

RG-402/U type, 19 AWG solid .036" 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):	1.5 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

Max Recommended Pulling Tension:	70 lbs
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Impedance:

Nominal Characteristic Impedance

50 Ohm

Inductance:

Nominal Inductance

0.07 μ H/ft

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
20.5 Ohm/1000ft	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	Nominal Velocity of Propagation (VP)
1.46 ns/ft	69.5 %

Voltage:

Non-UL Voltage Rating	UL Voltage Rating
1900V RMS	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
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20000 MHz	84 db/100ft
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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:

Nominal Diameter
0.138 in

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Coax
19	Solid	SPCCS - Silver Plated Copper Covered Steel	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
1673A TIN100	TIN	Reel	100 ft
1673A TIN250	TIN	Reel	250 ft
1673A TIN500	TIN	Reel	500 ft
1673A TIN50	TIN	Reel	50 ft

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