



## 1673J

Part Number: 1673J

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), PVC jacket.

### 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:	-40°C To +105°C
Suitability - Indoor:	Yes

## EU Directive

EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

## North American Standard

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

## Safety

Other Flammability:	Horizontal Wire
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## Temperature Range

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

## Use

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

## Impedance:

Nominal Characteristic Impedance
50 Ohm

## Inductance:

**Nominal Inductance**0.07  $\mu$ 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)**

9.5 db/100ft

14.5 db/100ft

26.5 db/100ft

	36 db/100ft
	54 db/100ft
	84 db/100ft
500 MHz	
1000 MHz	
3000 MHz	
5000 MHz	
10000 MHz	
20000 MHz	

**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
PVC - Polyvinyl Chloride	0.178 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
1673J 010100	BLACK	Reel	100 ft
1673J 010500	BLACK	Reel	500 ft

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