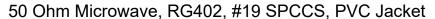


**Product:** <u>1673J</u> ☑





## **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.

## **Technical Specifications**

#### **Physical Characteristics (Overall)**

# Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coa
19	Solid	SCCS - Silvered Copper Covered Steel	0.036 in	1
Condu	uctor Count:	1		

#### Insulation

Material	Material Trade Name	Nominal Diameter
PTFE - Polytetrafluoroethylene	Teflon®	0.116 in

#### Outer Shield Material

Type	Layer	Material	Coverage [%]
Tape	1	Bare Copper (BC)	100%
Braid	2	Tinned Copper (TC + Tin Filled)	100%

## Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.178 in

### **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
20.5 Ohm/1000ft	20.5 Ohm/1000ft	4.5 Ohm/1000ft	4.5 Ohm/1000ft

### Capacitance

Nom. Capacitance Conductor to Shield 29.5 pF/ft

## Inductance

Nominal Inductance

### Impedance

Nominal Characteristic Impedance
50 Ohm

#### 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

### Delay

Nominal Delay

1.46 ns/ft

### 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
20000 MHz	84 dB/100ft

#### Power Rating

Frequency [MHz]	Max. Power Rating [W]	Nominal Power Rating [W]
500 MHz	600 W	600 W
1,000 MHz	401 W	401 W
2,000 MHz	268 W	268 W
3,000 MHz	211 W	211 W
5,000 MHz	157 W	157 W
7,000 MHz	129 W	129 W
10,000 MHz	105 W	105 W
15,000 MHz	83 W	83 W
18,000 MHz	74 W	74 W
20,000 MHz	70 W	70 W

### Voltage

Non-UL Voltage Rating	UL Voltage Rating
1900 V RMS	30 V RMS

#### VSWR

Element	Frequency [MHz]	Max. VSWR
Ramp Function, End Points	500 MHz	1.1
	20000 MHz	1.3

## **Temperature Range**

Non-UL Temp Rating:	105°C
UL Temp Rating:	105°C
Operating Temp Range:	-40°C To +105°C

## **Mechanical Characteristics**

Bulk Cable Weight:	32 lbs/1000ft
Max. Pull Tension:	70 lbs
Min Bend Radius (Overall):	1.5 in
Min Bend Radius During Installation:	0.25 in
Min Flexing Radius:	0.75 in

## **Standards**

UL AWM Style Compliance:	UL Style 10245
RG Type:	402

#### **Applicable Environmental and Other Programs**

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Flammability, LS0H, Toxicity Testing

Color Putup Type Length

UL Flammability:	Horizontal Wire
UL voltage rating:	30 V RMS

#### Plenum/Non-Plenum

Plenum (Y/N):	No

#### **Part Number**

#### Variants

1673J 010100	Black	Reel	100 ft	612825120452
1673J 010500	Black	Reel	500 ft	612825120469
Footnote:			C - CRATE	REEL PUT-UP.
Footnote:				JT-UP EXACT LE

### **Product Notes**

	Notes:	Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.	
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#### **History**

Update and Revision:	Revision Number: 0.319 Revision Date: 08-25-2020

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