

## 1671J Coax - 50 Ohm Microwave Cable

For more Information  
please call

1-800-Belden1

**General Description:**

RG-405/U type, 24 AWG solid .020" silver-plated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	24	Solid	SPCCS - Silver Plated Copper Covered Steel	0.508

Total Number of Conductors: 1

**Insulation****Insulation Material:**

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	TFE - Tetrafluoroethylene	1.5748

**Outer Shield****Outer Shield Material:**

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Copper Foil	100
2	Braid	Tin-Filled Composite	100

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

**Overall Cable**

Overall Nominal Diameter: 3.226 mm

**Mechanical Characteristics (Overall)**

Operating Temperature Range:	-40°C To +105°C
UL Temperature Rating:	105°C (UL AWM Style 10245)
Non-UL Temperature Rating:	105°C
Bulk Cable Weight:	23.811 Kg/Km
Max. Recommended Pulling Tension:	115.653 N
Min. Bend/Installation:	3.175 mm
Min. Flexing Radius:	0.953 cm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

AWM Specification:	UL Style 10245 (30 V 105°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes

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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	405/U
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**Flame Test**

Other Flame Test:	Horizontal Wire
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**Suitability**

Suitability - Indoor:	Yes
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Suitability - Outdoor:	Yes
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**Plenum/Non-Plenum**

Plenum (Y/N):	No
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**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

Impedance (Ohm)
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50
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**Nom. Inductance:**

Inductance (μH/m)
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0.22967
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**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)
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96.7895
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**Nominal Velocity of Propagation:**

VP (%)
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69.5
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**Nominal Delay:**

Delay (ns/m)
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4.79026
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**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)
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210.64
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**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)
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33.4662
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**Maximum VSWR:**

Freq. (MHz)	Max. VSWR
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500	1.1:1
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20000	1.3:1
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**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
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500	49.215
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1000	72.8382
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2000	107.617
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3000	135.177
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5000	180.127
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7000	217.858
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10000	266.417
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15000	334.662
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18000	370.753
20000	393.72

## Max. Power Rating:

Freq. (MHz)	Rating (W)
500	180
1000	119
2000	79
3000	62
5000	46
7000	37
10000	30
15000	24
18000	21
20000	20

## Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 10245)

## Max. Operating Voltage - Non-UL:

Voltage
1500 V RMS

## Misc. Information (Overall)

## Notes (Overall)

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

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1671J 010100	100 FT	2.400 LB	BLACK		#24 TFE BRD TINNED COAX PVC
1671J 0101000	1,000 FT	17.000 LB	BLACK	V	#24 TFE BRD TINNED COAX PVC
1671J 010500	500 FT	9.500 LB	BLACK	V	#24 TFE BRD TINNED COAX PVC

## Notes:

V = 250' PUT-UP EXACT LENGTH MAXIMUM OF 3 PIECES MINIMUM LENGTH 50' 500' PUT-UP EXACT LENGTH MAXIMUM OF 5 PIECES MINIMUM LENGTH 50'

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