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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), unjacketed.

### 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
Unjacketed

#### Overall Cable

Overall Nominal Diameter: 2.159 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

UL Temperature Rating: 105°C (UL AWM Style 10245)

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 17.858 Kg/Km

Max. Recommended Pulling Tension: 115.653 N

Min. Bend Radius/Minor Axis: 3.048 mm

Min. Bend Radius (Continuous Flexing): 9.398 mm

Min. Bend Radius (Overall): 25.400 mm

### 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: Yes

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	405/U

## Flame Test

Other Flame Test:	Horizontal Wire
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## Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

50

### Nom. Inductance:

Inductance ( $\mu\text{H}/\text{m}$ )

0.22967

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

96.7895

### Nominal Velocity of Propagation:

VP (%)

69.5

### Nominal Delay:

Delay (ns/m)

4.79026

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

210.64

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

33.4662

### Maximum VSWR:

Freq. (MHz) Max. VSWR

500 1.1:1

20000 1.3:1

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

500 49.215

1000 72.8382

2000 107.617

3000 135.177

5000 180.127

7000 217.858

10000 266.417

METRIC MEASUREMENT VERSION

## 1671A Coax - 50 Ohm Microwave Cable

15000	334.662
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

**Other Electrical Characteristic 1:** Shield effectiveness values are typical/nominal values.

### Shield Effectiveness:

Freq. (MHz)	Effectiveness (dB)
9000.000	120.000

## 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
1671A TIN100	30 MT	0.862 KG	TIN - COLOR		#24 TFE BRD TINNED COAX
1671A TIN1000	305 MT	5.443 KG	TIN - COLOR	V	#24 TFE BRD TINNED COAX
1671A TIN50	15 MT	0.499 KG	TIN - COLOR		#24 TFE BRD TINNED COAX
1671A TIN500	152 MT	2.948 KG	TIN - COLOR	V	#24 TFE BRD TINNED COAX

### 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'

## Test Reports

### a) UL

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

### b) CSA

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

\* other test data may be available if requested at time of order.

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