


**Product:** [1671A](#) 



Conformable Coax, 50 Ohm RG-405, 24 AWG Solid SCCS, Copper-Tin Composite Shield, Unjacketed

## Product Description

Conformable Coax, 50 Ohm, RG-405, 24 AWG Solid Silvered Copper Covered Steel Conductor, PTFE Insulation, Copper Tape + 100% Tin-Filled Composite Braid Shield, Unjacketed

## Technical Specifications

### Product Overview

Suitable Applications:	Microwave and other high frequency applications, Interconnect RF equipment, Radar equipment, Military communications
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### Construction Details

RG Type:	405
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#### Conductor

Size	Stranding	Nom. Diameter	Material
24 AWG	Solid	0.020 in	SCCS - Silvered Copper Covered Steel

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PTFE - Polytetrafluoroethylene	0.062 in (1.6 mm)	White

#### Outer Shield

Layer	Outer Shield Type	Material	Coverage	Notes
1	Tape	Bare Copper (BC)	100%	
2	Braid	Tinned Copper (TC + Tin Filled)	100%	Diameter: 0.085 inch

#### Outer Jacket

Material
No Jacket

Overall Cable Diameter (Nominal):	0.085 in (2.2 mm)
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### Electrical Characteristics

#### VSWR

Frequency	Max. VSWR
500 MHz	1.1:1
1000 MHz	1.11:1
3000 MHz	1.13:1
7000 MHz	1.17:1
15000 MHz	1.25:1
20000 MHz	1.3:1

Table Notes:	VSWR limit is a continuous sloping line from 500 MHz to 20 GHz
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#### Attenuation

Frequency	Nom. Attenuation
500 MHz	15.0 dB/100ft
1000 MHz	22.5 dB/100ft

3000 MHz	32.8 dB/100ft
3000 MHz	41.2 dB/100ft
5000 MHz	54.9 dB/100ft
7000 MHz	66.4 dB/100ft
10000 MHz	81.2 dB/100ft
15000 MHz	102 dB/100ft
18000 MHz	113 dB/100ft
20000 MHz	120 dB/100ft

#### Power Rating

Frequency	Max. Power Rating
500 MHz	180 W
1,000 MHz	119 W
2,000 MHz	79 W
3,000 MHz	62 W
5,000 MHz	46 W
7,000 MHz	37 W
10,000 MHz	30 W
15,000 MHz	24 W
18,000 MHz	21 W
20,000 MHz	20 W

#### Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
64.2 Ohm/1000ft	10.2 Ohm/1000ft (33.5 Ohm/km)	29.5 pF/ft (96.8 pF/m)	50 Ohm	70%

#### Voltage

UL Voltage Rating	Voltage Rating
30 V (UL AWM Style 10245)	1500 V

## Mechanical Characteristics

#### Temperature

UL Temperature	Operating
105°C	-70°C to +200°C

#### Bend Radius

Installation Min.
0.125 in (3.18 mm)

Max. Pull Tension:	26 lbs (12 kg)
Bulk Cable Weight:	12 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor (Not Riser or Plenum), Indoor
Sustainability:	CA Prop 65
Flammability / Reaction to Fire:	UL 1581 Horizontal Wire
AWM Compliance:	AWM 10245
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.480 Revision Date: 04-13-2023
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## Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1671A TIN50	Tin	Reel	50 ft	612825120285	
1671A TIN100	Tin	Reel	100 ft	612825120261	
1671A TIN500	Tin	Reel	500 ft	612825120292	V
1671A TIN1000	Tin	Reel	1,000 ft	612825120278	V

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