


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
PTFE - Polytetrafluoroethylene	0.062 in (1.6 mm)

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

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 (211 Ohm/km)	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

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: 0.366 Revision Date: 04-08-2022
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Part Numbers

Variants

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

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