


Product: [1671A](#) 

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



REPRESENTATIVE IMAGE

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

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

Insulation

Material	Nom. Diameter
PTFE - Polytetrafluoroethylene	0.062

Outer Shield Material

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

Electrical Characteristics

VSWR

Frequency [MHz]	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 [dB/100ft]	Max. Attenuation [dB/100ft]
500 MHz	15.0 dB/100ft	17.0 dB/100ft
1000 MHz	22.5 dB/100ft	24.9 dB/100ft
3000 MHz	32.8 dB/100ft	36.5 dB/100ft
3000 MHz	41.2 dB/100ft	45.7 dB/100ft
5000 MHz	54.9 dB/100ft	60.5 dB/100ft
7000 MHz	66.4 dB/100ft	72.9 dB/100ft
10000 MHz	81.2 dB/100ft	88.7 dB/100ft

15000 MHz	102 dB/100ft	110.9 dB/100ft
18000 MHz	113 dB/100ft	122.7 dB/100ft
20000 MHz	120 dB/100ft	130 dB/100ft

Power Rating

Frequency [MHz]	Max. Power Rating [W]
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. Impedance	Nom. Velocity
64.2 Ohm/1000ft	10.2 Ohm/1000ft	29.5 pF/ft	50 Ohm	69.5%

Voltage

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

Electrical Characteristics Notes: VSWR limit is a continuous sloping line from 500 MHz to 20 GHz

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.
0.125 in

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

Standards and Compliance

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

History

Update and Revision:	Revision Number: 0.337 Revision Date: 07-31-2020
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