



Product: [1671J](#)



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

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, PVC Jacket

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

Number of Element	Size	Stranding	Nom. Diameter	Material
1	24 AWG	Solid	0.0201 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	Material Trade Name	Coverage
1	Tape	Bare Copper (BC)	Beldfoil®	100%
2	Braid	Tinned Copper (TC + Tin Filled)		100%

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.127 in (3.23 mm)

Overall Cable Diameter (Nominal):	0.127 in (3.23 mm)
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Electrical Characteristics

VSWR

Frequency	Max. VSWR
500 MHz	1.1:1
20000 MHz	1.3:1

Attenuation

Frequency	Nom. Attenuation
500 MHz	15 dB/100ft
1000 MHz	22.2 dB/100ft
2000 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 RMS	1500 V RMS

Mechanical Characteristics

Temperature

UL Temperature	Operating
105°C	-40°C To +105°C

Bend Radius

Stationary Min.	Installation Min.	Flexing Min.
1 in (25 mm)	.125 in (3.18 mm)	.375 in (9.53 mm)

Max. Pull Tension:	26 lbs (12 kg)
Bulk Cable Weight:	16 lbs/1000 ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor
Flammability / Reaction to Fire:	Horizontal Wire
AWM Compliance:	AWM 10245 (30 V 105°C)
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

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

Update and Revision:	Revision Number: 0.390 Revision Date: 05-03-2023
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
1671J 010100	Black	Reel	100 ft	612825120315
1671J 010500	Black	Reel	500 ft	612825120339
1671J 0101000	Black	Reel	1,000 ft	612825120322

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