



Product: [1675A](#)

Conformable Coax, 50 Ohm, RG-401, 14 AWG Solid SCCS, Copper-Tin Composite Shield, Unjacketed

Product Description

Conformable Coax, 50 Ohm, RG-401, 14 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:	401
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Conductor

No. of Elements	Size	Stranding	Nom. Diameter	Material
1	14 AWG	Solid	0.065 in	SCCS - Silvered Copper Covered Steel

Insulation

Material	Nom. Insulation Diameter	Color Code
PTFE - Polytetrafluoroethylene	0.21 in (5.3 mm)	White

Outer Shield

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

Outer Jacket

Material
No Jacket

Overall Cable Diameter (Nominal):	0.246 in (6.25 mm)
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Electrical Characteristics

VSWR

Frequency	Max. VSWR
400 MHz	1.10:1
1000 MHz	1.11:1
3000 MHz	1.14:1
7000 MHz	1.21:1
10000 MHz	1.25:1
18000 MHz	1.38:1

Attenuation

Frequency	Nom. Attenuation
400 MHz	3.8 dB/100ft
500 MHz	4.4 dB/100ft
1000 MHz	6.8 dB/100ft

2000 MHz	10.4 dB/100ft
3000 MHz	13 dB/100ft
5000 MHz	19 dB/100ft
7000 MHz	22.8 dB/100ft
10000 MHz	28 dB/100ft
15000 MHz	36.6 dB/100ft
18000 MHz	41.0 dB/100ft

Power Rating

Frequency	Max. Power Rating
400 MHz	1,900 W
500 MHz	1,665 W
1,000 MHz	1,105 W
2,000 MHz	733 W
3,000 MHz	577 W
5,000 MHz	427 W
7,000 MHz	350 W
10,000 MHz	283 W
15,000 MHz	223 W
18,000 MHz	200 W

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
2.5 Ohm/1000ft (8.2 Ohm/km)	8.6 Ohm/1000ft (28 Ohm/km)	29.6 pF/ft (97.1 pF/m)	50 Ohm	70%

Voltage

UL Voltage Rating	Voltage Rating
30 V RMS	2900 V RMS

Electrical Characteristics Notes:	VSWR limit is a continuous sloping line from 500 MHz to 18 GHz
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Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.	Flexing Min.
1.125 in (28.58 mm)	.375 in (9.53 mm)	1.125 in (28.58 mm)

Max. Pull Tension:	122 lbs (55.3 kg)
Bulk Cable Weight:	81 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor
AWM Compliance:	AWM 10245
European Directive Compliance:	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:	Commercial non-QPL product
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History

Update and Revision:	Revision Number: 0.475 Revision Date: 04-29-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1675A TIN100	Tin	Reel	100 ft	612825120537	E
1675A TIN500	Tin	Reel	500 ft	612825120544	C E

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