



Product: [1673A](#)

Conformable Coax, 50 Ohm, RG-402, 19 AWG Solid SCCS, Copper-Tin Composite Shield, Unjacketed

Product Description

Conformable Coax, 50 Ohm, RG-402, 19 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:	402
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Conductor

Size	Stranding	Nom. Diameter	Material
19 AWG	Solid	0.036 in	SCCS - Silvered Copper Covered Steel

Insulation

Material	Nom. Insulation Diameter	Color Code
PTFE - Polytetrafluoroethylene	0.116 in (2.95 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: 0.138 inch

Outer Jacket

Material
No Jacket

Overall Cable Diameter (Nominal):	0.138 in (3.51 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	8.0 dB/100ft
1000 MHz	12.0 dB/100ft

3000 MHz	22.0 dB/100ft
5000 MHz	30.0 dB/100ft
10000 MHz	45.0 dB/100ft
20000 MHz	70.0 dB/100ft

Power Rating

Frequency	Max. Power Rating
500 MHz	600 W
1,000 MHz	401 W
2,000 MHz	268 W
3,000 MHz	211 W
5,000 MHz	157 W
7,000 MHz	129 W
10,000 MHz	105 W
15,000 MHz	83 W
18,000 MHz	74 W
20,000 MHz	70 W

Electricals

Nom. Conductor DCR	Nom. Outer Shield DCR	Nom. Capacitance Cond-to-Shield	Nom. Characteristic Impedance	Nom. Velocity of Prop.
20.5 Ohm/1000ft	4.5 Ohm/1000ft (15 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)	1900 V

Mechanical Characteristics

Temperature

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

Bend Radius

Installation Min.
0.250 in (6.35 mm)

Max. Pull Tension:	70 lbs (32 kg)
Bulk Cable Weight:	26 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: 0.475 Revision Date: 04-29-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1673A TIN50	Tin	Reel	50 ft	612825120407	
1673A TIN100	Tin	Reel	100 ft	612825120384	C
1673A TIN250	Tin	Reel	250 ft	612825120391	C V
1673A TIN500	Tin	Reel	500 ft	612825120414	

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