



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: 0.474 Revision Date: 04-13-2023
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Part Numbers

Variants

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

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