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1-800-Belden1



## General Description:

RG-402/U type, 19 AWG solid .036" silver-plated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), unjacketed.

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	19	Solid	SPCCS - Silver Plated Copper Covered Steel	0.9144

Total Number of Conductors: 1

### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (mm)
Teflon®	TFE - Tetrafluoroethylene	2.9464

### Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Tape	Copper Foil	100
2	Braid	Tin-Filled Composite	100

### Overall Cable

Overall Nominal Diameter: 3.505 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

UL Temperature Rating: 105°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 38.693 Kg/Km

Max. Recommended Pulling Tension: 311.374 N

Min. Bend/Installation: 6.350 mm

Min. Flexing Radius: 1.905 cm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

AWM Specification: UL Style 10245

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MIL Order #39 (China RoHS): Yes

RG Type: 402/U

### Flame Test

Other Flame Test: Horizontal Wire

### Suitability

Suitability - Indoor: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)

50

**Nom. Inductance:**

Inductance (µH/m)

0.22967

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)

96.7895

**Nominal Velocity of Propagation:**

VP (%)

69.5

**Nominal Delay:**

Delay (ns/m)

4.79026

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)

67.2605

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)

14.7645

**Maximum VSWR:**

Description	Freq. (MHz)	Max. VSWR
Ramp Function, End Points	500	1.1
	20000	1.3

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
500	26.248
1000	39.372
2000	59.3861
3000	75.1349
5000	101.711
7000	124.022
10000	152.895
15000	193.907
18000	215.89
20000	229.67

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
500	31.1695
1000	47.5745
3000	86.9465
5000	118.116
10000	177.174
20000	275.604

**Nom. Power Rating:**

Freq. (MHz)	Rating (W)
500	600
1000	401
2000	268
3000	211
5000	157
7000	129
10000	105
15000	83
18000	74
20000	70

**Max. Operating Voltage - UL:**

## METRIC MEASUREMENT VERSION

## 1673A Coax - 50 Ohm Microwave Cable

### Voltage

30 V RMS

### Max. Operating Voltage - Non-UL:

### Voltage

1900 V RMS

### Misc. Information (Overall)

### Notes (Overall)

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

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1673A TIN100	30 MT	1.406 KG	TIN - COLOR	C	#19 TFE BRD TINNED COAX
1673A TIN250	76 MT	3.289 KG	TIN - COLOR	C V	#19 TFE BRD TINNED COAX
1673A TIN50	15 MT	0.816 KG	TIN - COLOR		#19 TFE BRD TINNED COAX
1673A TIN500	152 MT	6.350 KG	TIN - COLOR		#19 TFE BRD TINNED COAX

### Notes:

C = CRATE REEL PUT-UP.

V = 250' PUT-UP EXACT LENGTH MAXIMUM OF 3 PIECESMINIMUM LENGTH 50'500' PUT-UP EXACT LENGTH MAXIMUM OF 5 PIECESMINIMUM LENGTH 50'

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