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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. (in.)
1	19	Solid	SPCCS - Silver Plated Copper Covered Steel	.036

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.116

#### 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: 0.138 in.

### 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: 26 lbs/1000 ft.

Max. Recommended Pulling Tension: 70 lbs.

Min. Bend/Installation: 0.250 in.

Min. Flexing Radius: 0.750 in.

### 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/ft)**  
0.070

**Nom. Capacitance Conductor to Shield:**

**Capacitance (pF/ft)**  
29.5

**Nominal Velocity of Propagation:**

**VP (%)**  
69.5

**Nominal Delay:**

**Delay (ns/ft)**  
1.46

**Nom. Conductor DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
20.5

**Nominal Outer Shield DC Resistance:**

**DCR @ 20°C (Ohm/1000 ft)**  
4.5

**Maximum VSWR:**

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

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
500	8.0
1000	12.0
2000	18.1
3000	22.9
5000	31.0
7000	37.8
10000	46.6
15000	59.1
18000	65.8
20000	70.0

**Max. Attenuation:**

Freq. (MHz)	Attenuation (dB/100 ft.)
500	9.5
1000	14.5
3000	26.5
5000	36.0
10000	54.0
20000	84.0

**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:**

**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	100 FT	3.100 LB	TIN - COLOR	C	#19 TFE BRD TINNED COAX
1673A TIN250	250 FT	7.250 LB	TIN - COLOR	C V	#19 TFE BRD TINNED COAX
1673A TIN50	50 FT	1.800 LB	TIN - COLOR		#19 TFE BRD TINNED COAX
1673A TIN500	500 FT	14.000 LB	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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