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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), PVC jacket.

### 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

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 0.178 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +105°C
UL Temperature Rating:	105°C
Non-UL Temperature Rating:	105°C
Bulk Cable Weight:	32 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:	No
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
MII Order #39 (China RoHS):	Yes
RG Type:	402/U

**Flame Test**

Other Flame Test: Horizontal Wire

**Suitability**

Suitability - Indoor: Yes

Suitability - Outdoor: 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:**

<b>Voltage</b>
30 V RMS

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

<b>Voltage</b>
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
1673J 010100	100 FT	5.100 LB	BLACK	C	#19 TFE BRD TINNED COAX PVC
1673J 010500	500 FT	16.500 LB	BLACK	C V	#19 TFE BRD TINNED COAX PVC

**Notes:**

C = CRATE REEL PUT-UP.

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

Revision Number: 4    Revision Date: 01-15-2014

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