



Product: [1672J](#)

75 Ohm High-Frequency Conformable Coax, #29 SCCS Coax, Unjacketed



### Product Description

29 AWG solid .011" silver-coated copper-covered steel conductor, TFE Teflon® insulation, copper-tin composite shield (100% coverage), PVC jacket.

### Technical Specifications

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	Nominal Diameter	No. of Coax
29	Solid	SCCS - Silvered Copper Covered Steel	0.0114 in	1

Conductor Count: 1

##### Insulation

Material	Material Trade Name	Nominal Diameter
PTFE - Polytetrafluoroethylene	Teflon®	0.062 in

##### Outer Shield

Type	Layer	Material	Coverage [%]
Tape	1	Bare Copper (BC)	100%
Braid	2	Tinned Copper (TC + Tin Filled)	100%

##### Outer Jacket

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.127 in

#### Electrical Characteristics

##### Conductor DCR

Nominal Conductor DCR	Nominal Conductor DCR	Conductor Resistance	Nominal Outer Shield DCR	Outer Conductor DCR
205 Ohm/1000ft	205 Ohm/1000ft		10 Ohm/1000ft	10 Ohm/1000ft

##### Capacitance

Nom. Capacitance Conductor to Shield
19.5 pF/ft

##### Inductance

Nominal Inductance
0.109 µH/ft

##### Impedance

Nominal Characteristic Impedance
75 Ohm

##### Return Loss (RL)

Frequency [MHz]	Min. Structural Return Loss (SRL)
10-1000 MHz	25 dB

#### High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.6 dB/100ft
10 MHz	1.8 dB/100ft
50 MHz	4.1 dB/100ft
100 MHz	6.5 dB/100ft
200 MHz	9 dB/100ft
400 MHz	12.8 dB/100ft
700 MHz	18 dB/100ft
1000 MHz	22.1 dB/100ft

#### Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.46 ns/ft	70%

#### Power Rating

Frequency [MHz]	Max. Power Rating [W]	Nominal Power Rating [W]
1 MHz	520 W	520 W
10 MHz	295 W	295 W
50 MHz	195 W	195 W
100 MHz	160 W	160 W
200 MHz	140 W	140 W
400 MHz	130 W	130 W
700 MHz	127 W	127 W
1,000 MHz	125 W	125 W

#### Voltage

Non-UL Voltage Rating	UL Voltage Rating
900 V RMS	30 V RMS

#### Temperature Range

Non-UL Temp Rating:	105°C
UL Temp Rating:	105°C
Operating Temperature Range:	-40°C To +105°C

#### Mechanical Characteristics

Bulk Cable Weight:	16 lbs/1000ft
Max. Pull Tension:	20 lbs
Min Bend Radius (Overall):	1 in
Min. Bend Radius During Installation:	0.125 in
Min Flexing Radius:	0.375 in

#### Standards

UL AWM Style Compliance:	AWM 10245
RG Type:	405

#### Applicable Environmental and Other Programs

Environmental Space:	Indoor/Outdoor
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/11/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	No
MII Order #39 (China RoHS):	Yes

## Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

## Flammability, LSOH, Toxicity Testing

UL Flammability:	Horizontal Wire
UL voltage rating:	30 V RMS

## Plenum/Non-Plenum

Plenum (Y/N):	No
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## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
1672J 010500	Black	Reel	500 ft	612825319184
1672J 0101000	Black	Reel	1,000 ft	612825120360
1672J 368500	Clear, Transparent	Reel	500 ft	612825120377

Footnote:	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'. 1000' PUT-UP EXACT LENGTH MAXIMUM OF 8 PIECES, MINIMUM LENGTH 50'. E - MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'. C - CRATE REEL PUT-UP.
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## Product Notes

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

Update and Revision:	Revision Number: 0.396 Revision Date: 11-09-2022
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