

## 1672J Coax - 75 Ohm High-Frequency Cable Conformable Coax Cable



### Description:

29 AWG solid .011" silver-coated 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	29	Solid	SCCCS - Silver-coated Copper-covered Steel	.0114

#### Insulation

##### Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.062

#### 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 Cabling

Overall Nominal Diameter: 0.127 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: 16 lbs/1000 ft.

Max. Recommended Pulling Tension: 20 lbs.

Min. Bend Radius (Install)/Minor Axis: 0.125 in.

Min. Bend Radius (Continuous Flexing): 0.375 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

AWM Specification: UL Style 10245

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

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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

### 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)

75

### Nom. Inductance:

Inductance (µH/ft)

0.109

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

19.5

### Nominal Velocity of Propagation:

VP (%)

69.5

### Nominal Delay:

Delay (ns/ft)

1.46

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

205.0

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10

### Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100 ft.)

1	1.6
10	1.8
50	4.1
100	6.5
200	9.0
400	12.8
700	18.0
1000	22.1

### Nom. Power Rating:

Freq. (MHz) Rating (W)

1	520
10	295
50	195
100	160
200	140
400	130
700	127

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1000	125
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**Max. Operating Voltage - UL:**

<b>Voltage</b>
30 V RMS

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

<b>Voltage</b>
900 V RMS

**Minimum Structural Return Loss:**

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
		10	1000	25

### Misc. Information (Overall)

**Other Description:** Update Temp Rating, 08/24/04 BAG: Corrected the core diameter. 09/20/05 BAG: Updated attenuation based upon measurements.

### Notes (Overall)

**Notes:** US Patents 4, 694, 122 & 5, 293, 001. Patents held in the U.S., Singapore, Australia, Germany, France, and England, Patent pending in Japan. 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
1672J 0101000	1,000 FT	17.000 LB	BLACK	V	#29 TFE BRD TINNED COAX PVC
1672J 010500	500 FT	9.500 LB	BLACK	E	#29 TFE BRD TINNED COAX PVC
1672J 368500	500 FT	9.500 LB	CLEAR, TRANSPARENT	C E	#29 TFE BRD TINNED COAX PVC

**Notes:**

C = CRATE REEL PUT-UP.

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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'

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# Conformable® Coax Cable

## 75 Ohm High-Frequency Video Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m

**29 AWG Solid .011" Silver-coated Copper-covered Steel Conductor • Copper-Tin Composite Shield (100% Coverage)**

**TFE Teflon® Insulation • Unjacketed**

UL AWM	<b>1672A*</b>	—	500†	152.4	7.5	3.4	29 AWG	.062	1.58	CT	.087	2.21	75	69.5%	19.5	64.0	1	1.6	5.3
Style 10245 (30V 105°C)			1000†	304.8	14.0	6.4	(solid) .011"			Composite 100% Shield							10	1.8	5.9
							SCCCS			Coverage							50	4.1	13.5
							205.0Ω/M'			10.0Ω/M'							100	6.5	21.3
							672.4Ω/km			32.8Ω/km							200	9.0	29.5
																	400	12.8	42.0
																	700	18.0	59.1
																	1000	22.1	72.5



**TFE Teflon Insulation • PVC Jacket (Black or Clear)**

UL AWM	<b>1672J*</b>	—	100††	30.5	3.1	1.4	29 AWG	.062	1.58	CT	.127	3.23	75	69.5%	19.5	64.0	1	1.6	5.3
Style 10245 (30V 105°C)			500††	152.4	9.5	4.3	(solid) .011"			Composite 100% Shield							10	1.8	5.9
			1000†	304.8	17.0	7.7	SCCCS			Coverage							50	4.1	13.5
							205.0Ω/M'			10.0Ω/M'							100	6.5	21.3
							672.6Ω/km			32.8Ω/km							200	9.0	29.5
																	400	12.8	42.0
																	700	18.0	59.1
																	1000	22.1	72.5



\*100 ft. put-up available in Clear only.

**29 AWG Solid .011" Silver-plated Copper Conductor • Copper-Tin Composite Shield (100% Coverage)**

**TFE Teflon Insulation • Unjacketed**

UL AWM	<b>1672B*</b>	—	100††	30.5	2.5	1.1	29 AWG	.062	1.58	CT	.087	2.21	75	69.5%	19.5	64.0	1	1.6	5.3
Style 10245 (30V 105°C)			500††	152.4	7.5	3.4	(solid) .011"			Composite 100% Shield							10	1.8	5.9
			1000††	304.8	14.0	6.4	SPC			Coverage							50	4.1	13.5
							11.0Ω/M'			10.0Ω/M'							100	6.5	21.3
							36.1Ω/km			32.8Ω/km							200	9.0	29.5
																	400	12.8	42.0
																	700	18.0	59.1
																	1000	22.1	72.5



Non-ferrous design.

CT = Copper Tin • DCR = DC Resistance • SCCC = Silver-coated Copper-covered Steel • SPC = Silver-plated Copper • TFE = Tetra Fluoroethylene

\* Protected by one or more of U.S. Patent Nos. 4,694,122 and 5,292,001. Patent held in the U.S., Singapore, Australia, Germany, France and England. Patent pending in Japan.

† 250 ft. put-up: Exact 3 pieces (maximum), 50 feet minimum length

500 ft. put-up: Exact 5 pieces (maximum), 50 feet minimum length

1000 ft. put-up: Exact 8 pieces (maximum), 50 feet minimum length

†† May contain more than 1 piece, minimum length of any one piece is 25 ft.

Teflon is a DuPont trademark.