Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1672A 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), unjacketed.

| Physical Characteristics (Overall) | |
|---|-------------------------------------|
| Conductor | |
| AWG: | |
| # Coax AWG Stranding Conductor Material 29 Solid SCCCS - Silver-coated Cop | Dia. (in.) pper-covered Steel .0114 |
| | Jper-covered Steel 10114 |
| Insulation Insulation Material: | |
| | Dia. (in.) |
| Teflon® TFE - Tetrafluoroethylene .C | J62 |
| 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 | |
| Unjacketed | |
| Overall Cabling | |
| Overall Nominal Diameter: | 0.087 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: | 11.700 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 C | |
| Applicable Standards & Environmental Prog | - |
| AWM Specification: | UL Style 10245 |
| 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 |
| | |

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



| EU Directive 2002/96/EC (WEEE); Yes EU Directive 2003/11/EC (BFR); Yes CA Prop 55 (CJ for Wire & Cable); Yes Flame Test: Yes Other Flame Test: Hotizontal Wire Suitability Suitability - Indoor: Yes Yes Plenum(YiN): Yes Plenum(YiN): Yes Plenum(YiN): No Nom: Capacitance (prifit) No 10:5 Nominal VeloCity of Propagation: Vier Gio Nominal Delay: Datay (mrifit) Nominal Duter Shiel Ot Resistance: Dor gio Zi Chimitoo fi Plenu (Mrifit) 1:40 Nominal Duter Shi | | 1672A Coax - 75 Ohm High-Frequency Cable Conformable® Coax Cab |
|--|--|--|
| CA Prop 65 (CJ for Wire & Cable): Yes Mil Order #39 (Chine RoHS): Yes Flame Test Horizontal Wire Suitability Suitability Suitability Yes Suitability - Indoor: Yes Suitability - Outdoor: Yes Plenum(Non-Plenum Plenum(N(N)): Non. Arracteristics (Overall) No Norn. Inductance: Impedance (Mif) 1010 Capacitance (Mif) 5 Suitability: Norn. Inductance: Impedance (Mif) 1010 Capacitance (Mif) 1010 Capacitance (Mif) 5 Suitability: Inductance: Impedance (Mif) 1010 Capacitance (Mif) 1020 Com/doo f) | EU Directive 2002/96/EC (WEEE): | Yes |
| MII Order #39 (China RoHS): Yes Flamo Test Horizontal Wire Suitability Suitability Suitability - Indoor: Yes Suitability - Outdoor: Yes Plonum/Non-Plonum Plenum (YiN): Non. Characteristics (Overall) No Electrical Characteristics (Overall) Non. Characteristic Impedance: Indicance (infin) Non. Characteristic Impedance: Non. Characteristic Impedance: Indicance (infin) Non. Capacitance Conductor to Shield: Capacitance (pf M) Nominal Velocity of Propagation: VP (Y) VP (Y) So Nom. Capacitance Conductor DC Resistance: DCR 202 (Chini/100 ft) Dias (mift) No. Nom. Characteristical (B/100 ft) Indiance (Infin) Indiance (B/100 ft) Indiance (Infin) Indid Ide (Infin) Indin (Infin) <tr< td=""><td>EU Directive 2003/11/EC (BFR):</td><td>Yes</td></tr<> | EU Directive 2003/11/EC (BFR): | Yes |
| MII Order #39 (China RoHS): Yes Flamo Test Horizontal Wire Suitability Suitability Suitability - Indoor: Yes Suitability - Outdoor: Yes Plonum/Non-Plonum Plenum (YiN): Non. Characteristics (Overall) No Electrical Characteristics (Overall) Non. Characteristic Impedance: Indicance (infin) Non. Characteristic Impedance: Non. Characteristic Impedance: Indicance (infin) Non. Capacitance Conductor to Shield: Capacitance (pf M) Nominal Velocity of Propagation: VP (Y) VP (Y) So Nom. Capacitance Conductor DC Resistance: DCR 202 (Chini/100 ft) Dias (mift) No. Nom. Characteristical (B/100 ft) Indiance (Infin) Indiance (B/100 ft) Indiance (Infin) Indid Ide (Infin) Indin (Infin) <tr< td=""><td>CA Prop 65 (CJ for Wire & Cable):</td><td>Yes</td></tr<> | CA Prop 65 (CJ for Wire & Cable): | Yes |
| Image: Plane Test Horizontal Wire Suitability - Indoor: Yes Suitability - Outdoor: Yes Suitability - Outdoor: Yes Plonum/Non-Plenum Plonum/Non-Plenum Plonum/Non-Plenum No Plonum/Non-Plenum No Plonum/Non-Plenum No Plonum/Non-Plenum No Plonum/Non-Plenum No Plonum/Non-Plenum No Impedance (Ohm) No 75 No Mon. Characteristic Impedance: Impedance (Plf) Non. Inductance Conductor to Shield: Caractance (plf) 0.10 Stability Stability Nom. Capacitance (plf) Stability Stability 10 5 Stability Stability 10 5 Stability Stability Nom. Capacitance (plf) Stability Stability Nominal Poley: Delay (mart) Stability 20.0 Stability Stability Stability 20.0 Stability Stability Stability | | |
| Other Flame Test: Horizontal Wire Suitability - Indoor: Yes Suitability - Ouddoor: Yes Suitability - Ouddoor: Yes Plenum (Y/N): No Plenum (Y/N): No Capacitance (Dim) 75 Nom. Moducance (uHf) 0.000 Nom. Inductance (uHf) 0.000 Nom. Nom. Capacitance Conductor to Shield: Capacitance (uFf) 18.5 Nom. Capacitance (uFf) 19.5 Nom. Nom. Capacitance (uFf) 19.5 Nom. Nom. Nom. Capacitance (uFf) 19.6 Nom. Nom. Diag (usf) Nom. Nom. | | |
| Suitability - Indoor: Yes Suitability - Outdoor: Yes Plenum/Non-Plenum Plenum (Y/N): No Plenum/Non-Plenum Plenum (Y/N): No Statability - Outdoor: Ves Plenum (Y/N): No Statability - Outdoor: No Plenum (Y/N): No Nom: Characteristic Impedance: Impedance (Pliff) No No Nominal Velocity of Propagation: Ver (S) No | | Harizontal Wire |
| Suitability - Indoor: Yes Suitability - Outdoor: Yes Plenum/Non-Plenum Non Plenum (YiN): No Caracteristics (Overall) Non Nom. Characteristics (Overall) Non Nom. Characteristic Impedance: Impedance (Ohm) 75 | | HUIZUIItai Wile |
| Suitability - Outdoor: Yes Plenum/Non-Plenum Plenum (Y/N): No Plenum (Y/N): No Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Orim) 75 Nom. Inductance: Inductance (uf/ft) 0.109 Nom. Capacitance Conductor to Shield: Capacitance (pf/ft) 10.5 Nominal Velocity of Propagation: VP (%) 0.55 Nominal Velocity of Propagation: VP (%) 0.55 Nominal Velocity of Propagation: VP (%) 0.00 0.00 0.01 0.02 (orifit) 1.46 Nom. Attenuation: PGR @ 20°C (Om/1000 ft) 1.00 6.5 1.00 6.5 1.00 1.00 1.00 | - | |
| Plenum // Non-Plenum No Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) 75 Nom. Inductance: Inductance (pH/ff) 1010 Nom. Capacitance Conductor to Shield: Capacitance (pF/ff) 100 Nominal Velocity of Propagation: VP (%) VP (%) 0.5 Nominal Delay: Delay (noff) 146 Nom Nominal Delay: Delay (noff) 125.0 Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/100 ft) 10 10 . 11 . 126.0 . | - | Yes |
| Plenum (YIN): No Electrical Characteristics (Overall) Nom. Characteristic Impedance: Impedance (Ohm) To Nom. Inductance: Impedance (Pfift) 0.09 Nom. Inductance (pfift) 0.5 Nominal Velocity of Propagation: V [6] Nominal Delay: V [6] Nom. Inductor DC Resistance: DCR 20°C (Ohm/1000 ft) 10 10 10 11 10 11 12.5 | Suitability - Outdoor: | Yes |
| Electrical Characteristics (Overall) Nom. Characteristic Impedance: | Plenum/Non-Plenum | |
| Nom. Characteristic Impedance: Impedance (0hm) 76 Nom. Inductance: Inductance (µl/f) 0.109 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 19.5 Nominal Velocity of Propagation: VP (%) 68.5 Nominal Delay: Delay (nsft) 1.46 205.0 Nominal Delay: Delay (nsft) 1.46 Delay (nsft) 1.46 DCR @ 20°C (Ohm/1000 ft) 10 1.6 1.6 1.8 1.6 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 | Plenum (Y/N): | No |
| Nom. Characteristic Impedance: Impedance (Ohm) 76 Nom. Inductance: Inductance (µf/ff) 0.109 Nom. Capacitance Conductor to Shield: Capacitance (pF/ff) 13.5 Nominal Velocity of Propagation: VP (%) 0.695 Nominal Delay: Dolay (nsft) 1.46 Dolay (nsft) 1.47 Dolay (nsft) 1.48 Dolay (nsft) 1.49 1.6 1.6 1.8 1.8 1.8 1.9 1.8 1.9 1.1 | | |
| impedance (Ohm) 75 Nom. Inductance: inductance (µHf) 0.109 Nom. Capacitance Conductor to Shield: Capacitance (pFf) 19.5 Nominal Velocity of Propagation: VP (%) 06.5 Nominal Delay: Delay (ns/ft) 14.4 Dots.0 Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/1000 ft) 10 1.16 10 1.6 10 1.8 205.0 205.0 | | |
| 76 Nom. Inductance: Inductance (µH/f) 0.109 Nom. Capacitance Conductor to Shield: Capacitance (pF/ft) 19.5 Nominal Velocity of Propagation: VP (%) Nominal Delay: Delay (ns/ft) 1.46 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 10 Nom. Attenuation: Freq. (Ht/2) Attenuation (dB/100 ft.) 1 1.8 00 8.5 00 9.0 4.1 100 8.5 200 9.0 4.1 1.8 100 8.5 200 9.0 4.1 1.8 100 8.5 200 9.0 4.1 1.8 100 1.8.0 | | |
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| 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 | Nominal Delay: Delay (ns/ft) 1.46 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) | |
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| 700 18.0 | 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 | |
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| | 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 | |

Nom. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 1 | 520 |
| 10 | 295 |
| 50 | 195 |
| 100 | 160 |
| 200 | 140 |
| 400 | 130 |
| 700 | 127 |

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1672A Coax - 75 Ohm High-Frequency Cable Conformable® Coax Cable

| | 1000 | 125 | | | | |
|-----|---------------------|--------------|-------------------|------------------|---------------|---|
| Ма | ax. Operatin | g Voltage - | UL: | | | |
| | Voltage 30 V RMS | | | | | |
| Ма | ax. Operatin | ig Voltage · | Non-UL: | | | |
| | Voltage | | | | | |
| | 900 V RMS | | | | | |
| Mi | nimum Stru | ctural Retu | ırn Loss: | | | |
| | Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) | |
| | | | 10 | 1000 | 25 | |
| | | | | | | - |
| Mis | sc. Inforn | nation (O | verall) | | | |
| | | | | | | |

Other Description:

09/20/05 BAG: Adjusted attenuation based upon measurements

Notes (Overall)

Notes: US Patents 4, 694, 122 & 5, 293, 001. Patent 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 |
|---------------|----------|-------------|-------------|-------|------------------------|
| 1672A TIN1000 | 1,000 FT | 14.000 LB | TIN - COLOR | V | #29 TFE SH TINNED COAX |
| 1672A TIN500 | 500 FT | 6.500 LB | TIN - COLOR | V | #29 TFE SH TINNED COAX |

Notes:

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

Revision Number: 3 Revision Date: 05-14-2007

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Conformable® Coax Cable

75 Ohm High-Frequency Video Cables

| Description | Part | UL NEC/ C(UL) CEC | Standard Lengths | | Standard Unit Weight | | Conductor (stranding) | Nominal Core OD | | Shielding Materials | Nominal OD | | Nom. Imp. | Nom. Vel. | Nominal Capacitance | | Nominal Attenuation | | |
|--------------------------------------|----------|----------------------|---|----------------|-------------------------|-------------------|---|--------------------|-------|--|------------|--------|--------------|--------------|------------------------|------|---|---|--|
| Description | No. | Type | Ft. | m | Lbs. | kg | Diameter Nom. DCR | Inch | mm | Nom. DCR | Inch | mm | (Ω) | of Prop. | pF/Ft. | pF/m | MHz | dB/ 100 Ft. | dB/ 100m |
| 29 AWG S | olid .01 | 1" Silver-c | oated C | opper-o | overe | d Ste | el Conduct | or • C | opper | -Tin Comp | osite | Shield | (100 | % Cov | erage |) | | | |
| TFE Teflo | n® Ins | ulation | • Unjac | keted | | | | | | | | | | | | | | | |
| UL AWM Style 10245 (30V 105°C) | 1672A* | | 500† 1000† | 152.4 304.8 | 7.5 14.0 | 3.4 6.4 | 29 AWG (solid) .011" SCCCS 205.0Ω/M' 672.4Ω/km | .062 | 1.58 | CT Composite 100% Shield Coverage 10.0Ω/M' 32.8Ω/km | .087 | 2.21 | 75 | 69.5% | 19.5 | 64.0 | 1 10 50 100 200 400 700 1000 | 1.6 1.8 4.1 6.5 9.0 12.8 18.0 22.1 | 5.3 5.9 13.5 21.3 29.5 42.0 59.1 72.5 |
| TFE Teflo | n Insı | lation • | PVC J | acket | (Black | or C | lear) | | | | | | | | | | | | |
| UL AWM Style 10245 (30V 105°C) | 1672J* | | 100 ^{††} 500 ^{††} 1000 [†] | | 3.1 9.5 17.0 | 1.4 4.3 7.7 | 29 AWG (solid) .011″ SCCCS 205.0Ω/Μ′ 672.6Ω/km | .062 | 1.58 | CT Composite 100% Shield Coverage 10.0Ω/M' 32.8Ω/km | .127 | 3.23 | 75 | 69.5% | 19.5 | 64.0 | 1 10 50 100 200 400 700 1000 | 1.6 1.8 4.1 6.5 9.0 12.8 18.0 22.1 | 5.3 5.9 13.5 21.3 29.5 42.0 59.1 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 Teflo | TFE Teflon Insulation • Unjacketed | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------------------------|---|--|------------------------|--------------------|-------------------|---|------|------|--|------|------|----|-------|------|------|---|---|--|
| UL AWM Style 10245 (30V 105°C) | 1672B* | _ | 100 ^{††} 500 ^{††} 1000 ^{††} | 30.5 152.4 304.8 | 2.5 7.5 14.0 | 1.1 3.4 6.4 | 29 AWG (solid) .011″ SPC 11.0Ω/M′ 36.1Ω/km | .062 | 1.58 | CT Composite 100% Shield Coverage 10.0Ω/M' 32.8Ω/km | .087 | 2.21 | 75 | 69.5% | 19.5 | 64.0 | 1 50 100 200 400 700 1000 | 1.6 1.8 4.1 6.5 9.0 12.8 18.0 22.1 | 5.3 5.9 13.5 21.3 29.5 42.0 59.1 72.5 |
| Non-ferrous desig | n. | | | | | | | | | | | | | | | | 1000 | | 12.0 |

CT = Copper Tin • DCR = DC Resistance • SCCCS = 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.

