# CA1SUS2

GigaSPEED X10D® 360GS10E to MGS600 (White), Class B2ca

## Product Classification

| | |
|---|---|
| **Regional Availability** | EMEA |
| **Portfolio** | SYSTIMAX® |
| **Product Type** | Twisted pair patch cord |
| **Product Brand** | GigaSPEED X10D® |
| **Product Series** | CA |
| **Ordering Note** | Cords < 1 m are valid elements for use in a channel or as an equipment interconnect but due to their limited length are not guaranteed to meet component compliance requirements that were developed to assess the quality of longer cords   |   Cords > 1 m are authorized for use in channels and are an effective standalone method used to connect active devices |

## General Specifications

| | |
|---|---|
| **ANSI/TIA Category** | 6A |
| **Cable Type** | U/UTP (unshielded) |
| **Conductor Type** | Solid |
| **Information Outlet Color** | Black   |   White |
| **Interface, Connector A** | RJ45 plug |
| **Interface Feature, connector A** | Standard |
| **Interface, Connector B** | Information outlet |
| **Interface Feature, connector B** | Standard |
| **Jacket Color** | White |
| **Pairs, quantity** | 4 |
| **Transmission Standards** | IEEE 802.3bt Type 4 |
| **Wiring** | T568B |

## Dimensions

| | |
|---|---|
| **Cable Assembly Length Range (m)** | 1 – 100 |

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| | |
|---|---|
| **Cable Assembly Length Range (ft)** | 1 – 328 |
| **Diameter Over Jacket** | 7.01 mm | 0.276 in |
| **Compatible Conductor Gauge, solid** | 23 AWG |

## Wiring Diagram

| | Connector A | Connector B |
|---|---|---|
| Position 1 | White/Orange | White/Orange |
| Position 2 | Orange | Orange |
| Position 3 | Lt. Green | Lt. Green |
| Position 4 | Blue | Blue |
| Position 5 | Lt. Blue | Lt. Blue |
| Position 6 | Green | Green |
| Position 7 | Lt. Brown | Lt. Brown |
| Position 8 | Brown | Brown |

## Electrical Specifications

| | |
|---|---|
| **dc Resistance, maximum** | 0.3 ohm |
| **Safety Voltage Rating** | 300 V |

## Ordering Tree

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| | CA | | | | - | 0 | 1 | F | 0 | 5 | 0 |

9  10  11  12

### Outlet Color

9

| 0 | Not applicable |
|---|---|
| 1 | Black |
| 2 | Blue |
| 3 | Gray |
| 4 | Green |
| 5 | Ivory |
| 6 | Orange |
| 7 | Red |
| 8 | White |
| 9 | Yellow |
| B | Lilac |

### Jacket Color

10

| 1 | Black |
|---|---|
| 2 | Light blue |
| 3 | Dark gray |
| 4 | Spring green |
| 5 | Ivory |
| 6 | Orange |
| 7 | Red |
| 8 | White |
| 9 | Yellow |
| B | Lilac |
| C | Gray |
| K | Pink |
| L | Violet |
| M | Green |
| Z | Blue |

### UOM

11

| F | Foot |
|---|---|
| M | Meter |
| N | Inch |
| C | Centimeter |

### Length

12 | XXX

### Notes

- Cords > 1m are authorized for use in channels and are an effective standalone method used to connect active devices

- Cords < 1m are also valid elements for use in a channel or as an equipment interconnect but due to their limited length are not guaranteed to meet component compliance requirements that were developed to assess the quality of longer cords

## Material Specifications

| | |
|---|---|
| **Contact Plating Material** | Precious metals |
| **Material Type** | Copper alloy   \|   Polycarbonate |

## Mechanical Specifications

| | |
|---|---|
| **Plug Insertion Life, minimum** | 750 times |
| **Plug Retention Force, minimum** | 133 N   \|   29.9 lbf |

## Environmental Specifications

| | |
|---|---|
| **Operating Temperature** | -10 °C to +60 °C (+14 °F to +140 °F) |
| **EN50575 CPR Cable EuroClass Fire Performance** | B2ca |
| **EN50575 CPR Cable EuroClass Smoke Rating** | s1 |
| **EN50575 CPR Cable EuroClass Droplets Rating** | d0 |
| **EN50575 CPR Cable EuroClass Acidity Rating** | a1 |
| **Environmental Space** | Low Smoke Zero Halogen (LSZH) |
| **Flammability Rating** | UL 94 V-0 |
| **Safety Standard** | ETL   \|   cETL |

## Packaging and Weights

| | |
|---|---|
| **Packaging quantity** | 1 |

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## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| CENELEC | EN 50575 compliant, Declaration of Performance (DoP) available |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

**CENELEC**

## Included Products

884027204/10
CS44ZB WHT C6A 4/23 U/UTP
RL 305M

– CS44ZB Category 6A U/UTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1000 ft (305 m) length, reel

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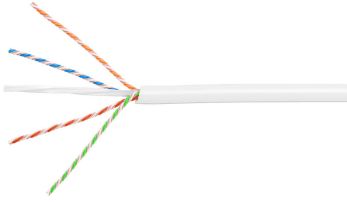
CS44ZB Category 6A U/UTP Cable,low smoke zero halogen, white jacket, 4 pair count, 1000 ft (305 m) length, reel

## Product Classification

| | |
|---|---|
| **Regional Availability** | EMEA |
| **Portfolio** | NETCONNECT® |
| **Product Type** | Twisted pair cable |

## General Specifications

| | |
|---|---|
| **Product Number** | CS44ZB |
| **ANSI/TIA Category** | 6A |
| **Cable Component Type** | Horizontal |
| **Cable Type** | U/UTP (unshielded) |
| **Conductor Type, singles** | Solid |
| **Conductors, quantity** | 8 |
| **Jacket Color** | White |
| **Pairs, quantity** | 4 |
| **Separator Type** | Isolator |
| **Transmission Standards** | ANSI/TIA-568.2-D | ISO/IEC 11801 Class EA |

## Dimensions

| | |
|---|---|
| **Cable Length** | 304.8 m | 1000 ft |
| **Diameter Over Insulated Conductor** | 0.864 mm | 0.034 in |
| **Diameter Over Jacket, nominal** | 7.239 mm | 0.285 in |
| **Jacket Thickness** | 1.27 mm | 0.05 in |
| **Conductor Gauge, singles** | 23 AWG |

## Cross Section Drawing

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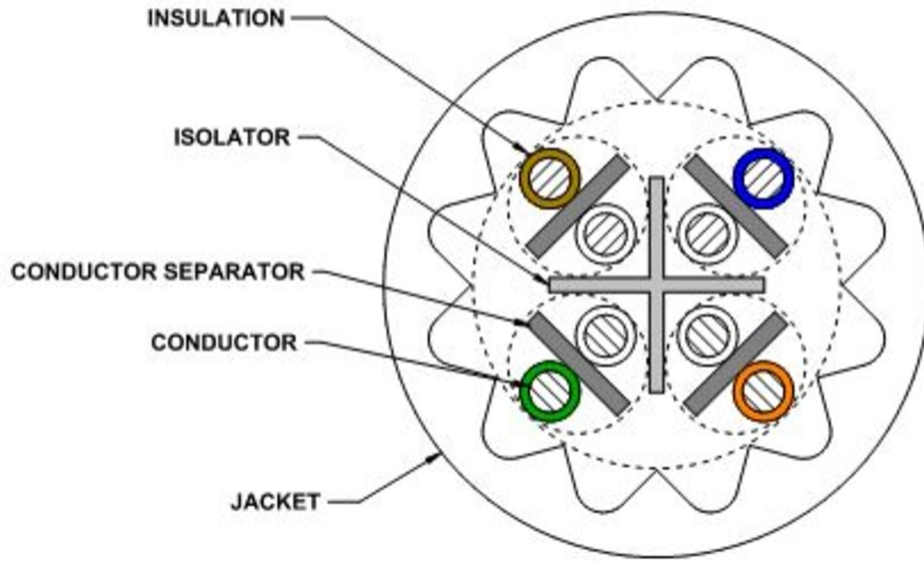
## Electrical Specifications

| | |
|---|---|
| **dc Resistance Unbalance, maximum** | 4 % |
| **dc Resistance, maximum** | 7.61 ohms/100 m | 2.32 ohms/100 ft |
| **Mutual Capacitance at Frequency** | 6.0 nF/100 m @ 1 kHz |
| **Nominal Velocity of Propagation (NVP)** | 66 % |
| **Operating Frequency, maximum** | 550 MHz |
| **Operating Voltage, maximum** | 80 V |
| **Remote Powering** | Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A |
| **Segregation Class** | c |

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## Electrical Cable Performance

| CS | CommScope | | |
|---|---|---|---|
| **STD** | Refers to the standard value listed under Transmission Standards in the Electrical Specifications above | | |
| **TYP** | Typical Electrical Performance | | |
| **IL** | Insertion Loss (dB/100m) | **NEXT** | Near End Crosstalk (dB/100m) |
| **ACR** | Attenuation to Crosstalk Ratio (dB/100m) | **PSNEXT** | Power Sum Near End Crosstalk (db/100m) |
| **PSACR** | Power Sum Attenuation to Crosstalk Ratio (dB/100m) | **ACRF** | Attenuation to Crosstalk Ratio - Far End (dB/100m) |
| **PSACRF** | Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m) | **RL** | Return Loss (dB) |
| **TCL** | Transverse Conversion Loss (dB/100m) | **ELTCTL** | Equal Level Transverse Conversion Transfer Loss (dB/100m) |

| Freq. MHz | IL | NEXT | ACR | PSNEXT | PSACR | ACRF | PSACRF | RL |
|---|---|---|---|---|---|---|---|---|
| | TYP | TYP | TYP | TYP | TYP | TYP | TYP | TYP |
| 1 | 1.8 | 91 | 89.2 | 89 | 87.3 | 84.5 | 82.5 | 33 |
| 4 | 3.5 | 83.1 | 79.6 | 81 | 77.5 | 72.6 | 70.5 | 34.6 |
| 8 | 5 | 79 | 73.9 | 76.9 | 71.8 | 66.6 | 64.4 | 37.3 |
| 10 | 5.6 | 76.6 | 71 | 74.7 | 69.1 | 64.7 | 62.5 | 38.4 |
| 16 | 7.1 | 73.6 | 66.5 | 71.5 | 64.3 | 60.6 | 58.2 | 39.6 |
| 20 | 8 | 73 | 65 | 71 | 63 | 58.6 | 56.2 | 38.9 |
| 25 | 9 | 70.6 | 61.7 | 68.8 | 59.8 | 56.5 | 54.2 | 38.7 |
| 31.25 | 10.1 | 68.7 | 58.7 | 66.9 | 56.8 | 54.4 | 52.1 | 39.3 |
| 62.5 | 14.4 | 64.6 | 50.3 | 62.7 | 48.3 | 48.5 | 46 | 36.3 |
| 100 | 18.4 | 60.2 | 41.9 | 58.7 | 40.4 | 44.5 | 42.2 | 35.8 |
| 155 | 23.2 | 60.8 | 37.7 | 58.8 | 35.6 | 41 | 38.7 | 33.1 |
| 200 | 26.5 | 56.8 | 30.4 | 55 | 28.5 | 38.5 | 36.3 | 33 |
| 250 | 29.8 | 54.8 | 25.1 | 52.8 | 23 | 36.5 | 34.2 | 32.6 |
| 300 | 32.9 | 53.4 | 20.5 | 51.4 | 18.5 | 35 | 32.5 | 32.5 |
| 350 | 35.7 | 52.1 | 16.4 | 50.1 | 14.4 | 34 | 31.4 | 33.2 |
| 400 | 38.2 | 50.4 | 12.2 | 48.3 | 10.1 | 32 | 30 | 34.2 |
| 500 | 43.1 | 47.3 | 4.2 | 45.5 | 2.4 | 29.9 | 27.8 | 34.6 |

## Material Specifications

| | |
|---|---|
| **Conductor Material** | Bare copper |
| **Insulation Material** | Polyolefin |
| **Jacket Material** | Low Smoke Zero Halogen (LSZH) |
| **Separator Material** | Polyolefin |
| **Separator 2 Material** | Polyolefin |

## Mechanical Specifications

| | |
|---|---|
| **Pulling Tension, maximum** | 11.34 kg | 25 lb |

## Environmental Specifications

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| | |
|---|---|
| **Installation temperature** | 0 °C to +60 °C (+32 °F to +140 °F) |
| **Operating Temperature** | -20 °C to +60 °C (-4 °F to +140 °F) |
| **Acid Gas Test Method** | EN 50267-2-3 |
| **EN50575 CPR Cable EuroClass Fire Performance** | B2ca |
| **EN50575 CPR Cable EuroClass Smoke Rating** | s1a |
| **EN50575 CPR Cable EuroClass Droplets Rating** | d0 |
| **EN50575 CPR Cable EuroClass Acidity Rating** | a1 |
| **Environmental Space** | Low Smoke Zero Halogen (LSZH) |
| **Smoke Test Method** | IEC 61034-2 |

## Packaging and Weights

| | |
|---|---|
| **Cable weight** | 55.955 kg/km | 37.6 lb/kft |
| **Packaging Type** | Reel |

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| CENELEC | EN 50575 compliant, Declaration of Performance (DoP) available |
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

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