

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

Product Classification

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

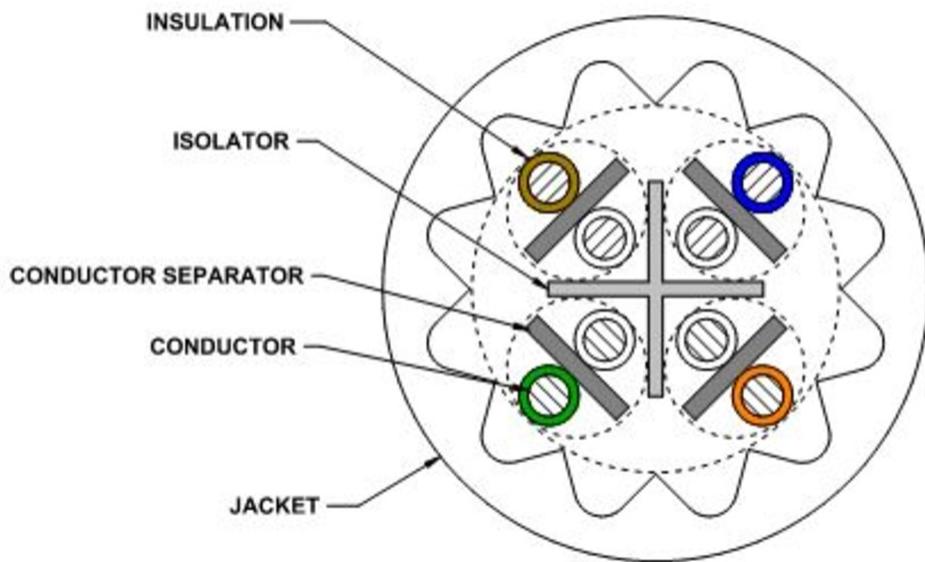
General Specifications

| | |
|--------------------------------|---|
| 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

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|--|---------------------|
| 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



Electrical Specifications

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|--|---|
| 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 |

Electrical Performance

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|--|---|--|
| CS CommScope value | IL Insertion Loss (dB/100m) | ACR Attenuation to Crosstalk Ratio (dB/100m) |
| Std Standard value (listed under the Transmission Standards in the Electrical Specifications above) | RL Return Loss (dB) | ACRF Attenuation to Crosstalk Ratio - Far End (dB/100m) |
| Typ Typical value | NEXT Near End Crosstalk (dB/100m) | PSACR Power Sum Attenuation to Crosstalk Ratio (dB/100m) |
| | PSNEXT Power Sum Near End Crosstalk (dB/100m) | PSACRF Insertion Loss (dB/100m) |

| FREQUENCY | IL TYP | IL CS | IL STD | NEXT TYP | NEXT CS | NEXT STD | ACR TYP | ACR CS | ACR STD | PSNEXT TYP | PSNEXT CS | PSNEXT STD | PSACR TYP | PSACR CS | PSACR STD | ACRF TYP | ACRF CS | ACRF STD | PSACRF TYP | PSACRF CS | PSACRF STD | RL TYP | RL CS | RL STD | TCL TYP | TCL CS | TCL STD | ELTCL TYP | ELTCL CS | ELTCL STD |
|------------|--------|-------|--------|----------|---------|----------|---------|--------|---------|------------|-----------|------------|-----------|----------|-----------|----------|---------|----------|------------|-----------|------------|--------|-------|--------|---------|--------|---------|-----------|----------|-----------|
| 1.00 MHz | 1.8 | 2.1 | 91 | 74.3 | 89.2 | 72.2 | 89 | | | 72.3 | 87.3 | 70.2 | 84.5 | | | 64.8 | | 64.8 | 33 | 20 | | | 40 | | | 35 | | | | |
| 4.00 MHz | 3.5 | 3.8 | 83.1 | 65.3 | 79.6 | 61.5 | 81 | | | 63.3 | 77.5 | 59.5 | 72.6 | | | 55.8 | 70.5 | | 52.8 | 34.6 | | 23 | | | 40 | | | | | |
| 8.00 MHz | 5 | 5.3 | 79 | 60.8 | 73.9 | 55.4 | 76.9 | | | 58.8 | 71.8 | 53.4 | 66.6 | | | 49.7 | 64.4 | | 46.7 | 37.3 | | 24.5 | | | 40 | | 16.9 | | | |
| 10.00 MHz | 5.6 | 5.9 | 76.6 | 59.3 | 71 | 53.4 | 74.7 | | | 57.3 | 69.1 | 51.4 | 64.7 | | | 47.8 | 62.5 | | 44.8 | 36.4 | | 25 | | | 40 | | 15 | | | |
| 16.00 MHz | 7.1 | 7.5 | 73.6 | 56.2 | 66.5 | 48.8 | 71.5 | | | 54.2 | 64.3 | 46.8 | 60.6 | | | 43.7 | 58.2 | | 40.7 | 39.6 | | 25 | | | 38 | | 10.9 | | | |
| 20.00 MHz | 8 | 8.4 | 73 | 54.8 | 65 | 46.4 | 71 | | | 52.8 | 63 | 44.4 | 58.6 | | | 41.8 | 56.2 | | 38.8 | 38.9 | | 25 | | | 37 | | 9 | | | |
| 25.00 MHz | 9 | 9.4 | 70.6 | 53.3 | 61.7 | 44 | 68.8 | | | 51.3 | 59.8 | 42 | 56.5 | | | 39.8 | 54.2 | | 36.8 | 38.7 | | 24.3 | | | 36 | | 7 | | | |
| 31.25 MHz | 10.1 | 10.5 | 68.7 | 51.9 | 56.7 | 41.4 | 66.9 | | | 49.9 | 56.8 | 39.4 | 54.4 | | | 37.9 | 52.1 | | 34.9 | 39.3 | | 23.6 | | | 35.1 | | | | | |
| 62.50 MHz | 14.4 | 15 | 64.6 | 47.4 | 50.3 | 32.4 | 62.7 | | | 45.4 | 48.3 | 30.4 | 48.5 | | | 31.9 | 46 | | 28.9 | 36.3 | | 21.5 | | | 32 | | | | | |
| 100.00 MHz | 18.4 | 19.1 | 60.2 | 44.3 | 41.9 | 25.2 | 58.7 | | | 42.3 | 40.4 | 23.2 | 44.5 | | | 27.8 | 42.2 | | 24.8 | 35.8 | | 20.1 | | | 30 | | | | | |
| 156.00 MHz | 23.2 | 24.1 | 60.8 | 41.4 | 37.7 | 17.4 | 58.8 | | | 39.4 | 35.6 | 15.4 | 41 | | | 24 | 38.7 | | 21 | 33.1 | | 18.8 | | | 28.1 | | | | | |
| 200.00 MHz | 26.5 | 27.6 | 56.8 | 39.8 | 30.4 | 12.2 | 55 | | | 37.8 | 28.5 | 10.2 | 38.5 | | | 21.8 | 36.3 | | 18.8 | 33 | | 18 | | | 27 | | | | | |
| 250.00 MHz | 29.8 | 31.1 | 54.8 | 38.3 | 25.1 | 7.3 | 52.8 | | | 36.3 | 23 | 5.3 | 36.5 | | | 19.8 | 34.2 | | 16.8 | 32.6 | | 17.3 | | | 26 | | | | | |
| 300.00 MHz | 32.9 | 34.3 | 53.4 | 37.1 | 20.5 | 2.9 | 51.4 | | | 35.1 | 18.5 | 0.9 | 35 | | | 18.3 | 32.5 | | 15.3 | 32.5 | | 16.8 | | | 25.2 | | | | | |
| 350.00 MHz | 35.7 | 37.2 | 52.1 | 36.1 | 16.4 | -1.1 | 50.1 | | | 34.1 | 14.4 | -3.1 | 34 | | | 16.9 | 31.4 | | 13.9 | 33.2 | | 16.3 | | | 24.6 | | | | | |
| 400.00 MHz | 38.2 | 40.1 | 50.4 | 35.3 | 12.2 | -4.8 | 48.3 | | | 33.3 | 10.1 | -6.8 | 32 | | | 15.8 | 30 | | 12.8 | 34.2 | | 15.9 | | | 24 | | | | | |
| 500.00 MHz | 43.1 | 45.3 | 47.3 | 33.8 | 4.2 | -11.4 | 45.5 | | | 31.8 | 2.4 | -13.4 | 29.9 | | | 13.8 | 27.8 | | 10.8 | 34.6 | | 15.2 | | | 23 | | | | | |

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

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|---------------------------------|------------------|
| Pulling Tension, maximum | 11.34 kg 25 lb |
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Environmental Specifications

Installation temperature 0 °C to +60 °C (+32 °F to +140 °F)

-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

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|--|-------------------------------|
| 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 CommPak® box

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 |

