

CS44ZC Category 6A U/UTP Cable,low smoke zero halogen, violet jacket, 4 pair count, 1000 ft (305 m) length, CommPak® box

OBSOLETE

This product was discontinued on: October 1, 2024

Replaced By:

884067514/10
CS44ZB VLT C6A 4/23 U/UTP CPK 305M

CS44ZB Category 6A U/UTP Cable,low smoke zero halogen, violet 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 | CS44ZC |
| ANSI/TIA Category | 6A |
| Cable Component Type | Horizontal |
| Cable Type | U/UTP (unshielded) |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |
| Jacket Color | Violet |
| Pairs, quantity | 4 |
| Separator Type | Isolator |
| Transmission Standards | ANSI/TIA-568.2-D ISO/IEC 11801 Class EA |

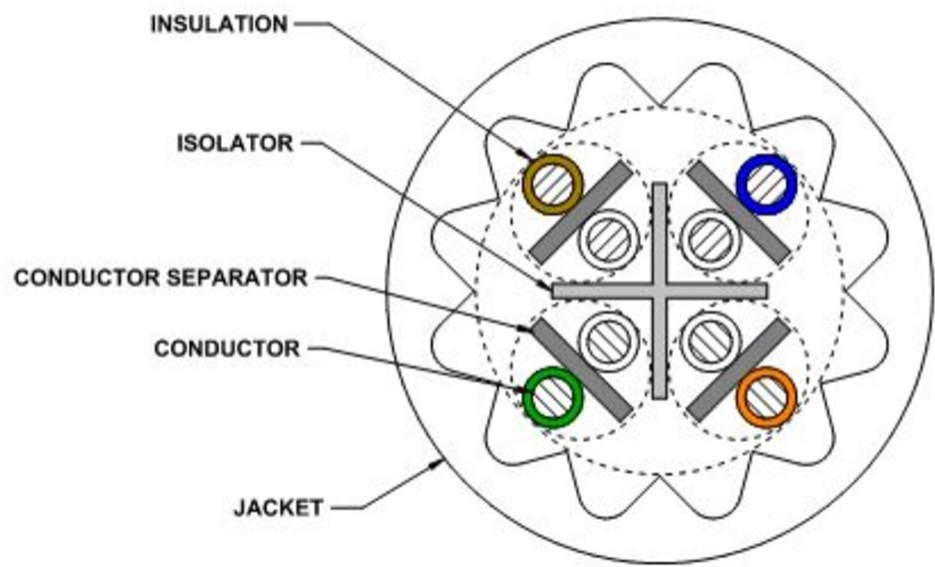
Dimensions

| | |
|--------------|-------------------|
| Cable Length | 304.8 m 1000 ft |
|--------------|-------------------|

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

| | |
|---------------------------------------|---|
| 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 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 | | TCL | ELTCTL |
|--------------|------|------|------|------|-------|------|--------|------|-------|------|------|------|--------|------|------|------|------|--------|
| | STD | TYP | STD | TYP | STD | TYP | STD | TYP | STD | TYP | STD | TYP | STD | TYP | STD | TYP | STD | STD |
| 1 | 2.1 | 1.8 | 74.3 | 91 | 72.2 | 89.2 | 72.3 | 89 | 70.2 | 87.3 | 67.8 | 84.5 | 64.8 | 82.5 | 20 | 33 | 40 | 35 |
| 4 | 3.8 | 3.5 | 65.3 | 83.1 | 61.5 | 79.6 | 63.3 | 81 | 59.5 | 77.5 | 55.8 | 72.6 | 52.8 | 70.5 | 23 | 34.6 | 40 | 23 |
| 8 | 5.3 | 5 | 60.8 | 79 | 55.4 | 73.9 | 58.8 | 76.9 | 53.4 | 71.8 | 49.7 | 66.6 | 46.7 | 64.4 | 24.5 | 37.3 | 40 | 16.9 |
| 10 | 5.9 | 5.6 | 59.3 | 76.6 | 53.4 | 71 | 57.3 | 74.7 | 51.4 | 69.1 | 47.8 | 64.7 | 44.8 | 62.5 | 25 | 38.4 | 40 | 15 |
| 16 | 7.5 | 7.1 | 56.2 | 73.6 | 48.8 | 66.5 | 54.2 | 71.5 | 46.8 | 64.3 | 43.7 | 60.6 | 40.7 | 58.2 | 25 | 39.6 | 38 | 10.9 |
| 20 | 8.4 | 8 | 54.8 | 73 | 46.4 | 65 | 52.8 | 71 | 44.4 | 63 | 41.8 | 58.6 | 38.8 | 56.2 | 25 | 38.9 | 37 | 9 |
| 25 | 9.4 | 9 | 53.3 | 70.6 | 44 | 61.7 | 51.3 | 68.8 | 42 | 59.8 | 39.8 | 56.5 | 36.8 | 54.2 | 24.3 | 38.7 | 36 | 7 |
| 31.25 | 10.5 | 10.1 | 51.9 | 68.7 | 41.4 | 58.7 | 49.9 | 66.9 | 39.4 | 56.8 | 37.9 | 54.4 | 34.9 | 52.1 | 23.6 | 39.3 | 35.1 | |
| 62.5 | 15 | 14.4 | 47.4 | 64.6 | 32.4 | 50.3 | 45.4 | 62.7 | 30.4 | 48.3 | 31.9 | 48.5 | 28.9 | 46 | 21.5 | 36.3 | 32 | |
| 100 | 19.1 | 18.4 | 44.3 | 60.2 | 25.2 | 41.9 | 42.3 | 58.7 | 23.2 | 40.4 | 27.8 | 44.5 | 24.8 | 42.2 | 20.1 | 35.8 | 30 | |
| 155 | 24.1 | 23.2 | 41.4 | 60.8 | 17.4 | 37.7 | 39.4 | 58.8 | 15.4 | 35.6 | 24 | 41 | 21 | 38.7 | 18.8 | 33.1 | 28.1 | |
| 200 | 27.6 | 26.5 | 39.8 | 56.8 | 12.2 | 30.4 | 37.8 | 55 | 10.2 | 28.5 | 21.8 | 38.5 | 18.8 | 36.3 | 18 | 33 | 27 | |
| 250 | 31.1 | 29.8 | 38.3 | 54.8 | 7.3 | 25.1 | 36.3 | 52.8 | 5.3 | 23 | 19.8 | 36.5 | 16.8 | 34.2 | 17.3 | 32.6 | 26 | |
| 300 | 34.3 | 32.9 | 37.1 | 53.4 | 2.9 | 20.5 | 35.1 | 51.4 | 0.9 | 18.5 | 18.3 | 35 | 15.3 | 32.5 | 16.8 | 32.5 | 25.2 | |
| 350 | 37.2 | 35.7 | 36.1 | 52.1 | -1.1 | 16.4 | 34.1 | 50.1 | -3.1 | 14.4 | 16.9 | 34 | 13.9 | 31.4 | 16.3 | 33.2 | 24.6 | |
| 400 | 40.1 | 38.2 | 35.3 | 50.4 | -4.8 | 12.2 | 33.3 | 48.3 | -6.8 | 10.1 | 15.8 | 32 | 12.8 | 30 | 15.9 | 34.2 | 24 | |
| 500 | 45.3 | 43.1 | 33.8 | 47.3 | -11.4 | 4.2 | 31.8 | 45.5 | -13.4 | 2.4 | 13.8 | 29.9 | 10.8 | 27.8 | 15.2 | 34.6 | 23 | |

Material Specifications

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|-----------------------------|-------------------------------|
| 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 |
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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 | Cca |
| EN50575 CPR Cable EuroClass Smoke Rating | s1a |
| EN50575 CPR Cable EuroClass Droplets Rating | d1 |
| EN50575 CPR Cable EuroClass Acidity Rating | a1 |
| Environmental Space | Low Smoke Zero Halogen (LSZH) |
| Smoke Test Method | IEC 61034-2 |

Packaging and Weights

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|----------------|----------------------------|
| Cable weight | 55.955 kg/km 37.6 lb/kft |
| Packaging Type | CommPak® box |

Regulatory Compliance/Certifications

| Agency | Classification |
|------------|---|
| CHINA-ROHS | Below maximum concentration value |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

