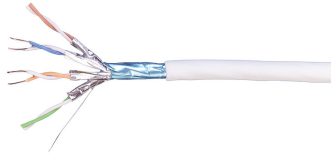


# 884041458/16 | CS44ZC WHT C6A 2x4/23 F/FTP RL 500M



CS44ZC Category 6A F/FTP Cable, low smoke zero halogen, white jacket, 8 pair count, 2 x 4 pair cables in a duplex style configuration, 1640 ft (500 m) length, reel

## Product Classification

|                              |                    |
|------------------------------|--------------------|
| <b>Regional Availability</b> | EMEA               |
| <b>Portfolio</b>             | NETCONNECT®        |
| <b>Product Type</b>          | Twisted pair cable |

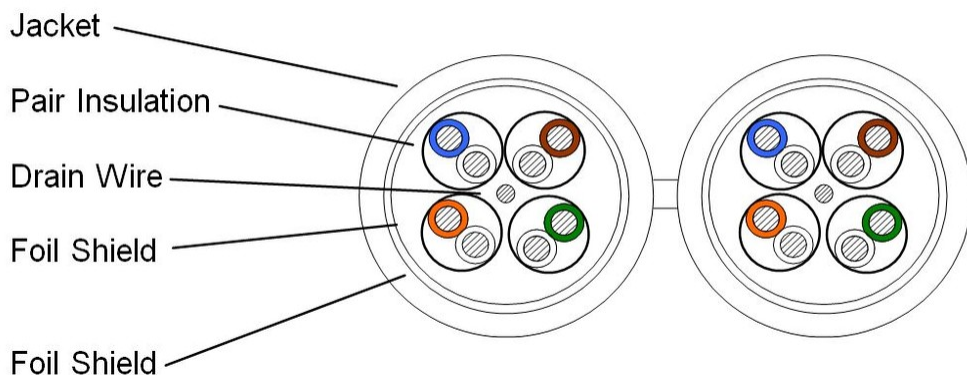
## General Specifications

|                                |   |
|--------------------------------|---|
| <b>Product Number</b>          | CS44ZC                                    |
| <b>ANSI/TIA Category</b>       | 6A  |
| <b>Cable Component Type</b>    | Horizontal                                |
| <b>Cable Type</b>              | F/FTP (shielded)                          |
| <b>Conductor Type, singles</b> | Solid                                     |
| <b>Conductors, quantity</b>    | 16  |
| <b>Jacket Color</b>            | White                                     |
| <b>Pairs, quantity</b>         | 8   |
| <b>Transmission Standards</b>  | ANSI/TIA-568.2-D   ISO/IEC 11801 Class EA |

## Dimensions

|  |                     |
|--|---------------------|
| <b>Cable Length</b>                      | 500 m   1,640.42 ft |
| <b>Cable Length Tolerance</b>            | ±5%                 |
| <b>Diameter Over Insulated Conductor</b> | 1.168 mm   0.046 in |
| <b>Diameter Over Jacket, nominal</b>     | 7.01 mm   0.276 in  |
| <b>Jacket Thickness</b>                  | 0.635 mm   0.025 in |
| <b>Conductor Gauge, singles</b>          | 23 AWG              |

## Cross Section Drawing



## Electrical Specifications

|  |   |
|--|---|
| <b>Coupling Attenuation</b>                  | Type II   |
| <b>dc Resistance Unbalance, maximum</b>      | 2 %   |
| <b>dc Resistance, maximum</b>                | 7.61 ohms/100 m   2.32 ohms/100 ft  |
| <b>Mutual Capacitance at Frequency</b>       | 4.2 nF/100 m @ 1 kHz  |
| <b>Nominal Velocity of Propagation (NVP)</b> | 80 %  |
| <b>Operating Frequency, maximum</b>          | 500 MHz   |
| <b>Operating Voltage, maximum</b>            | 80 V  |
| <b>Remote Powering</b>                       | 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 |
| <b>Segregation Class</b>                     | d   |
| <b>Transfer Impedance</b>                    | Grade 2   |

## Electrical Cable Performance

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

| Freq. MHz | IL   | NEXT | ACR   | PSNEXT | PSACR | ACRF | PSACRF | RL   | TCL  | ELTCTL |
|-----------|------|------|-------|--------|-------|------|--------|------|------|--------|
|           | STD  | STD  | STD   | STD    | STD   | STD  | STD    | STD  | STD  | STD    |
| 1         | 2.1  | 75.3 | 73.2  | 72.3   | 70.2  | 68   | 65     | 20   | 40   | 35     |
| 4         | 3.8  | 66.3 | 62.5  | 63.3   | 59.5  | 56   | 53     | 23   | 34   | 23     |
| 8         | 5.3  | 61.8 | 56.4  | 58.8   | 53.4  | 49.9 | 46.9   | 24.5 | 31   | 16.9   |
| 10        | 5.9  | 60.3 | 54.4  | 57.3   | 51.4  | 48   | 45     | 25   | 30   | 15     |
| 16        | 7.5  | 57.2 | 49.8  | 54.2   | 46.8  | 43.9 | 40.9   | 25   | 28   | 10.9   |
| 20        | 8.4  | 55.8 | 47.4  | 52.8   | 44.4  | 42   | 39     | 25   | 27   | 9      |
| 25        | 9.4  | 54.3 | 45    | 51.3   | 42    | 40   | 37     | 24.3 | 26   | 7      |
| 31.25     | 10.5 | 52.9 | 42.4  | 49.9   | 39.4  | 38.1 | 35.1   | 23.6 | 25.1 |        |
| 62.5      | 15   | 48.4 | 33.4  | 45.4   | 30.4  | 32.1 | 29.1   | 21.5 | 22   |        |
| 100       | 19.1 | 45.3 | 26.2  | 42.3   | 23.2  | 28   | 25     | 20.1 | 20   |        |
| 155       | 24.1 | 42.4 | 18.4  | 39.4   | 15.4  | 24.2 | 21.2   | 18.8 | 18.1 |        |
| 200       | 27.6 | 40.8 | 13.2  | 37.8   | 10.2  | 22   | 19     | 18   | 17   |        |
| 250       | 31.1 | 39.3 | 8.3   | 36.3   | 5.3   | 20   | 17     | 17.3 | 16   |        |
| 300       | 34.3 | 38.1 | 3.9   | 35.1   | 0.9   | 18.5 | 15.5   | 16.8 |      |        |
| 350       | 37.2 | 37.1 | -0.1  | 34.1   | -3.1  | 17.1 | 14.1   | 16.3 |      |        |
| 400       | 40.1 | 36.3 | -3.8  | 33.3   | -6.8  | 16   | 13     | 15.9 |      |        |
| 500       | 45.3 | 34.8 | -10.4 | 31.8   | -13.4 | 14   | 11     | 15.2 |      |        |

## Material Specifications

|                               |                               |
|-------------------------------|-------------------------------|
| <b>Conductor Material</b>     | Bare copper                   |
| <b>Insulation Material</b>    | Polyolefin                    |
| <b>Jacket Material</b>        | Low Smoke Zero Halogen (LSZH) |
| <b>Shield (Tape) Material</b> | Polyester/Aluminum shield     |

## Mechanical Specifications

|                                 |                  |
|---------------------------------|------------------|
| <b>Pulling Tension, maximum</b> | 11.34 kg   25 lb |
|---------------------------------|------------------|

## Environmental Specifications

|                                 |                                    |
|---------------------------------|------------------------------------|
| <b>Installation temperature</b> | 0 °C to +50 °C (+32 °F to +122 °F) |
|---------------------------------|------------------------------------|

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|   |                                     |
|---|-------------------------------------|
| <b>Operating Temperature</b>                        | -20 °C to +60 °C (-4 °F to +140 °F) |
| <b>Acid Gas Test Method</b>                         | EN 50267-2-3                        |
| <b>EN50575 CPR Cable EuroClass Fire Performance</b> | Cca                                 |
| <b>EN50575 CPR Cable EuroClass Smoke Rating</b>     | s1                                  |
| <b>EN50575 CPR Cable EuroClass Droplets Rating</b>  | d1                                  |
| <b>EN50575 CPR Cable EuroClass Acidity Rating</b>   | a1                                  |
| <b>Environmental Space</b>                          | Low Smoke Zero Halogen (LSZH)       |
| <b>Smoke Test Method</b>                            | IEC 61034-2                         |

## Packaging and Weights

|                       |                                 |
|-----------------------|---------------------------------|
| <b>Cable weight</b>   | 97,028.289 kg/km   65200 lb/kft |
| <b>Packaging Type</b> | Reel                            |

## Regulatory Compliance/Certifications

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

