

# UN874021414/10 | CS44P BLK C6A 4/23 U/UTP CPK 1KFT

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CS44P ETL Verified Category 6A U/UTP Cable, plenum, black jacket, 4 pair count, 1000 ft (305 m) length CommPak

## Product Classification

|                              |                    |
|------------------------------|--------------------|
| <b>Regional Availability</b> | North America      |
| <b>Portfolio</b>             | Uniprise®          |
| <b>Product Type</b>          | Twisted pair cable |

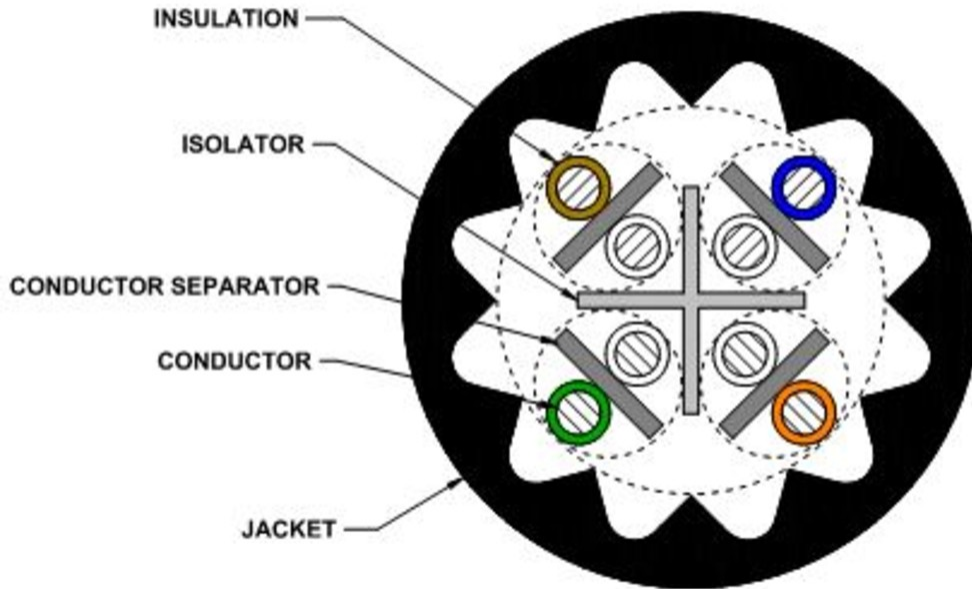
## General Specifications

|                                |  |
|--------------------------------|--|
| <b>Product Number</b>          | CS44P  |
| <b>ANSI/TIA Category</b>       | 6A   |
| <b>Cable Component Type</b>    | Horizontal   |
| <b>Cable Type</b>              | U/UTP (unshielded)   |
| <b>Conductor Type, singles</b> | Solid  |
| <b>Conductors, quantity</b>    | 8  |
| <b>Jacket Color</b>            | Black  |
| <b>Note</b>                    | Consult ANSI/TIA-568-C.2 Annex G for length de-rating guidance for cable installation in higher temperature environments |
| <b>Pairs, quantity</b>         | 4  |
| <b>Separator Type</b>          | Bisector   |
| <b>Transmission Standards</b>  | ANSI/TIA-568.2-D   ISO/IEC 11801 Class EA  |

## Dimensions

|  |                     |
|--|---------------------|
| <b>Cable Length</b>                      | 304.8 m   1000 ft   |
| <b>Diameter Over Insulated Conductor</b> | 0.889 mm   0.035 in |
| <b>Diameter Over Jacket, nominal</b>     | 7.239 mm   0.285 in |
| <b>Jacket Thickness</b>                  | 1.295 mm   0.051 in |
| <b>Conductor Gauge, singles</b>          | 23 AWG              |

## Cross Section Drawing



## Electrical Specifications

|  |   |
|--|---|
| <b>dc Resistance Unbalance, maximum</b>      | 4 %   |
| <b>dc Resistance, maximum</b>                | 7.61 ohms/100 m   2.32 ohms/100 ft  |
| <b>Dielectric Strength, minimum</b>          | 1500 Vac   2500 Vdc   |
| <b>LP (Limited Power) Rating</b>             | 0.6 A   |
| <b>Mutual Capacitance at Frequency</b>       | 6.0 nF/100 m @ 1 kHz  |
| <b>Nominal Velocity of Propagation (NVP)</b> | 66 %  |
| <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>Safety Voltage Rating</b>                 | 300 V   |

## 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   |      |
|-----------|------|------|------|------|-------|------|--------|------|-------|------|------|------|--------|------|------|------|
|           | STD  | TYP  | STD  | TYP  | STD   | TYP  | STD    | TYP  | STD   | TYP  | STD  | TYP  | STD    | TYP  | STD  | TYP  |
| 1         | 2.1  | 1.8  | 74.3 | 90.6 | 72.2  | 88.8 | 72.3   | 88.3 | 70.2  | 86.5 | 67.8 | 82.1 | 64.8   | 80.3 | 20   | 32.2 |
| 4         | 3.8  | 3.6  | 65.3 | 82.4 | 61.5  | 78.8 | 63.3   | 80.2 | 59.5  | 76.6 | 55.8 | 70.1 | 52.8   | 68.4 | 23   | 33.9 |
| 8         | 5.3  | 5.1  | 60.8 | 77.6 | 55.4  | 72.5 | 58.8   | 75.8 | 53.4  | 70.7 | 49.7 | 64.1 | 46.7   | 62.3 | 24.5 | 36.7 |
| 10        | 5.9  | 5.7  | 59.3 | 76.4 | 53.4  | 70.7 | 57.3   | 74.4 | 51.4  | 68.7 | 47.8 | 62.2 | 44.8   | 60.4 | 25   | 37.7 |
| 16        | 7.5  | 7.3  | 56.2 | 73.1 | 48.8  | 65.9 | 54.2   | 71.3 | 46.8  | 64   | 43.7 | 58.2 | 40.7   | 56.4 | 25   | 38.7 |
| 20        | 8.4  | 8.1  | 54.8 | 71.5 | 46.4  | 63.4 | 52.8   | 69.7 | 44.4  | 61.6 | 41.8 | 56.4 | 38.8   | 54.5 | 25   | 38.7 |
| 25        | 9.4  | 9.1  | 53.3 | 70.2 | 44    | 61.1 | 51.3   | 68.3 | 42    | 59.2 | 39.8 | 54.5 | 36.8   | 52.6 | 24.3 | 35.5 |
| 31.25     | 10.5 | 10.2 | 51.9 | 68.6 | 41.4  | 58.4 | 49.9   | 66.7 | 39.4  | 56.5 | 37.9 | 52.7 | 34.9   | 50.7 | 23.6 | 37.2 |
| 62.5      | 15   | 14.6 | 47.4 | 64.2 | 32.4  | 49.6 | 45.4   | 62.3 | 30.4  | 47.7 | 31.9 | 46.6 | 28.9   | 44.7 | 21.5 | 34.6 |
| 100       | 19.1 | 18.6 | 44.3 | 60.8 | 25.2  | 42.1 | 42.3   | 59   | 23.2  | 40.3 | 27.8 | 42.5 | 24.8   | 40.5 | 20.1 | 30.3 |
| 155       | 24.1 | 23.4 | 41.4 | 58.4 | 17.4  | 35   | 39.4   | 56.4 | 15.4  | 33   | 24   | 38.9 | 21     | 37   | 18.8 | 30.8 |
| 200       | 27.6 | 26.8 | 39.8 | 56   | 12.2  | 29.2 | 37.8   | 54.2 | 10.2  | 27.4 | 21.8 | 36.6 | 18.8   | 34.6 | 18   | 30   |
| 250       | 31.1 | 30.1 | 38.3 | 54.3 | 7.3   | 24.2 | 36.3   | 52.5 | 5.3   | 22.3 | 19.8 | 34.6 | 16.8   | 32.6 | 17.3 | 30.5 |
| 300       | 34.3 | 33.1 | 37.1 | 53.1 | 2.9   | 19.9 | 35.1   | 51.2 | 0.9   | 18.1 | 18.3 | 33.1 | 15.3   | 31.2 | 16.8 | 31.1 |
| 350       | 37.2 | 36   | 36.1 | 51.8 | -1.1  | 15.8 | 34.1   | 49.9 | -3.1  | 13.9 | 16.9 | 31.9 | 13.9   | 29.9 | 16.3 | 31.7 |
| 400       | 40.1 | 38.8 | 35.3 | 50.8 | -4.8  | 12   | 33.3   | 48.8 | -6.8  | 10   | 15.8 | 30.6 | 12.8   | 28.6 | 15.9 | 31.5 |
| 500       | 45.3 | 43.6 | 33.8 | 47.9 | -11.4 | 4.3  | 31.8   | 45.8 | -13.4 | 2.2  | 13.8 | 28.7 | 10.8   | 26.7 | 15.2 | 32   |
| 550       |      | 43.8 |      | 48   |       | 4.1  |        | 45.9 |       | 2    |      | 28.6 |        | 26.7 |      | 31.9 |
| 650       |      | 50.2 |      | 43.5 |       | -6.7 |        | 41.5 |       | -8.8 |      | 25.7 |        | 23.5 |      | 25.3 |

## Material Specifications

|                            |             |
|----------------------------|-------------|
| <b>Conductor Material</b>  | Bare copper |
| <b>Insulation Material</b> | FEP         |
| <b>Jacket Material</b>     | PVC         |
| <b>Separator Material</b>  | Polyolefin  |

## Mechanical Specifications

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

## Environmental Specifications

# UN874021414/10 | CS44P BLK C6A 4/23 U/UTP CPK 1KFT

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|                                 |  |
|---------------------------------|--|
| <b>Installation temperature</b> | 0 °C to +60 °C (+32 °F to +140 °F)                     |
| <b>Operating Temperature</b>    | -20 °C to +75 °C (-4 °F to +167 °F)                    |
| <b>Environmental Space</b>      | Plenum   |
| <b>Temperature Rating, ETL</b>  | 105 °C   221 °F  |
| <b>Flame Test Method</b>        | CMP/FT6   NEC Article 800   NFPA 262   UL 444   UL 910 |
| <b>Smoke Test Method</b>        | CMP/FT6  |

## Packaging and Weights

|                       |                            |
|-----------------------|----------------------------|
| <b>Cable weight</b>   | 63.098 kg/km   42.4 lb/kft |
| <b>Packaging Type</b> | CommPak® box               |

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |

