

CS44P ETL Verified Category 6A F/UTP Cable, plenum, yellow jacket, 4 pair count, 1000 ft (305 m) length reel



## Product Classification

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

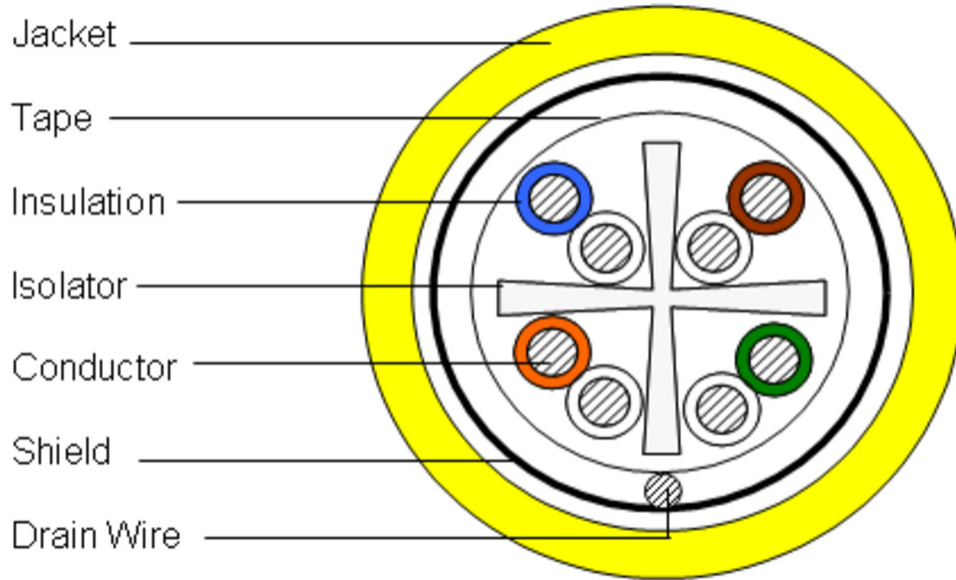
## General Specifications

|                                |                  |
|--------------------------------|------------------|
| <b>Product Number</b>          | CS44P            |
| <b>ANSI/TIA Category</b>       | 6A               |
| <b>Cable Component Type</b>    | Horizontal       |
| <b>Cable Type</b>              | F/UTP (shielded) |
| <b>Conductor Type, singles</b> | Solid            |
| <b>Conductors, quantity</b>    | 8                |
| <b>Drain Wire Type</b>         | Solid            |
| <b>Jacket Color</b>            | Yellow           |
| <b>Pairs, quantity</b>         | 4                |
| <b>Separator Type</b>          | Isolator         |
| <b>Transmission Standards</b>  | ANSI/TIA-568.2-D |

## Dimensions

|  |                     |
|--|---------------------|
| <b>Cable Length</b>                      | 304.8 m   1000 ft   |
| <b>Diameter Over Insulated Conductor</b> | 1.107 mm   0.044 in |
| <b>Diameter Over Jacket, nominal</b>     | 7.01 mm   0.276 in  |
| <b>Jacket Thickness</b>                  | 0.457 mm   0.018 in |
| <b>Conductor Gauge, singles</b>          | 23 AWG              |
| <b>Drain Wire Gauge</b>                  | 26 AWG              |

## Cross Section Drawing



## Electrical Specifications

|  |   |
|--|---|
| <b>dc Resistance Unbalance, maximum</b>      | 4 %   |
| <b>dc Resistance, maximum</b>                | 8 ohms/100 m   2.438 ohms/100 ft  |
| <b>Delay Skew, maximum</b>                   | 45 ns   |
| <b>Dielectric Strength, minimum</b>          | 1500 Vac   2500 Vdc   |
| <b>LP (Limited Power) Rating</b>             | 0.8 A   |
| <b>Mutual Capacitance at Frequency</b>       | 5.6 nF/100 m @ 1 kHz  |
| <b>Nominal Velocity of Propagation (NVP)</b> | 70 %  |
| <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  | 1.7  | 74.3 | 88.2 | 72.2  | 86.5  | 72.3   | 85.8 | 70.2  | 84.1  | 67.8 | 88.9 | 64.8   | 86.4 | 20   | 32.9 |
| 4         | 3.8  | 3.3  | 65.3 | 80.4 | 61.5  | 77.1  | 63.3   | 78.2 | 59.5  | 75    | 55.8 | 79.7 | 52.8   | 77.8 | 23   | 34.9 |
| 8         | 5.3  | 4.6  | 60.8 | 75.5 | 55.4  | 70.8  | 58.8   | 73.4 | 53.4  | 68.8  | 49.7 | 73.7 | 46.7   | 71.8 | 24.5 | 34.8 |
| 10        | 5.9  | 5.2  | 59.3 | 74.1 | 53.4  | 68.9  | 57.3   | 72.1 | 51.4  | 66.9  | 47.8 | 71.9 | 44.8   | 69.9 | 25   | 35   |
| 16        | 7.5  | 6.6  | 56.2 | 70.4 | 48.8  | 63.8  | 54.2   | 68.3 | 46.8  | 61.7  | 43.7 | 68.2 | 40.7   | 66.1 | 25   | 36.6 |
| 20        | 8.4  | 7.4  | 54.8 | 69.2 | 46.4  | 61.8  | 52.8   | 67   | 44.4  | 59.6  | 41.8 | 66.2 | 38.8   | 64   | 25   | 36.3 |
| 25        | 9.4  | 8.3  | 53.3 | 67.6 | 44    | 59.3  | 51.3   | 65.2 | 42    | 56.9  | 39.8 | 64.2 | 36.8   | 62   | 24.3 | 35   |
| 31.25     | 10.5 | 9.3  | 51.9 | 66.1 | 41.4  | 56.8  | 49.9   | 63.9 | 39.4  | 54.6  | 37.9 | 62.3 | 34.9   | 60.1 | 23.6 | 34.5 |
| 62.5      | 15   | 13.2 | 47.4 | 60.8 | 32.4  | 47.6  | 45.4   | 58.7 | 30.4  | 45.4  | 31.9 | 56.2 | 28.9   | 54.1 | 21.5 | 31.4 |
| 100       | 19.1 | 16.9 | 44.3 | 57.4 | 25.2  | 40.5  | 42.3   | 55.4 | 23.2  | 38.5  | 27.8 | 52.2 | 24.8   | 50.2 | 20.1 | 27.7 |
| 155       | 24.1 | 21.2 | 41.4 | 54   | 17.4  | 32.8  | 39.4   | 51.9 | 15.4  | 30.7  | 24   | 48.1 | 21     | 46   | 18.8 | 24.5 |
| 200       | 27.6 | 24.3 | 39.8 | 50   | 12.2  | 25.7  | 37.8   | 48.5 | 10.2  | 24.2  | 21.8 | 46.2 | 18.8   | 44.1 | 18   | 22.4 |
| 250       | 31.1 | 27.3 | 38.3 | 50.1 | 7.3   | 22.8  | 36.3   | 48.2 | 5.3   | 20.9  | 19.8 | 44.3 | 16.8   | 42.2 | 17.3 | 21   |
| 300       | 34.3 | 30   | 37.1 | 48.7 | 2.9   | 18.7  | 35.1   | 46.7 | 0.9   | 16.7  | 18.3 | 42.8 | 15.3   | 40.3 | 16.8 | 19.6 |
| 350       | 37.2 | 32.6 | 36.1 | 46.6 | -1.1  | 14    | 34.1   | 44.8 | -3.1  | 12.2  | 16.9 | 41.6 | 13.9   | 39.3 | 16.3 | 18.8 |
| 400       | 40.1 | 35   | 35.3 | 45.5 | -4.8  | 10.5  | 33.3   | 43.8 | -6.8  | 8.7   | 15.8 | 39.8 | 12.8   | 37.7 | 15.9 | 17.9 |
| 500       | 45.3 | 39.5 | 33.8 | 43.8 | -11.4 | 4.2   | 31.8   | 41.5 | -13.4 | 2     | 13.8 | 37.7 | 10.8   | 35.5 | 15.2 | 16.8 |
| 550       |      | 41.7 |      | 41.8 |       | 0.1   |        | 40   |       | -1.8  |      | 35.1 |        | 32.7 |      | 15.2 |
| 650       |      | 45.8 |      | 34.8 |       | -10.9 |        | 33.6 |       | -12.1 |      | 33.6 |        | 31.2 |      | 15   |

## Material Specifications

|                            |               |
|----------------------------|---------------|
| <b>Conductor Material</b>  | Bare copper   |
| <b>Drain Wire Material</b> | Tinned copper |
| <b>Insulation Material</b> | FEP           |
| <b>Jacket Material</b>     | PVC           |
| <b>Separator Material</b>  | FEP           |

## Mechanical Specifications

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

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## Environmental Specifications

|                                 |  |
|---------------------------------|--|
| <b>Installation temperature</b> | 0 °C to +60 °C (+32 °F to +140 °F)                     |
| <b>Operating Temperature</b>    | -20 °C to +60 °C (-4 °F to +140 °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>   | 58.038 kg/km   39 lb/kft |
| <b>Packaging Type</b> | Reel                     |

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |