

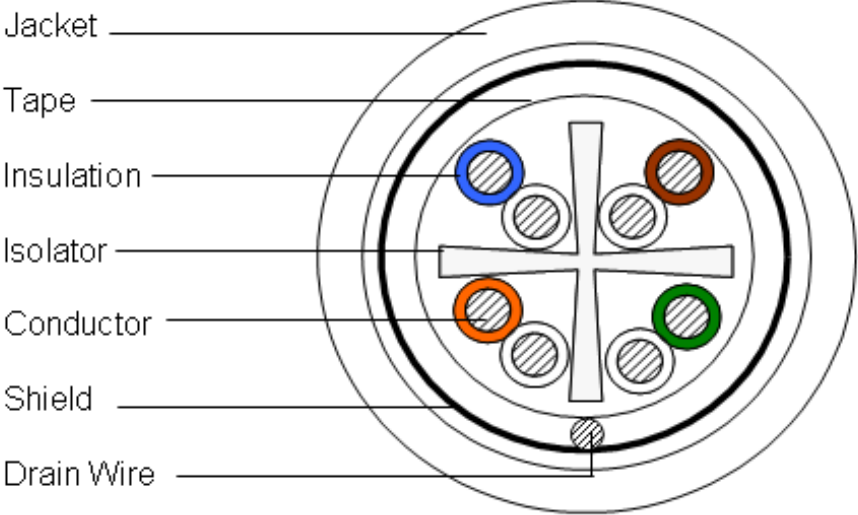


UN874048904/10 | CS44P WHT C6A 4/23 F/UTP RL 1KFT  
CS44P ETL Verified Category 6A F/UTP Cable, plenum, white jacket, 4 pair count, 1000 ft (305 m) length reel

## Product Classification

|                       |                    |
|-----------------------|--------------------|
| Portfolio             | Uniprise®          |
| Product Type          | Twisted pair cable |
| Regional Availability | North America      |

## Cross Section Drawing



## Construction Materials

|                     |               |
|---------------------|---------------|
| Jacket Material     | PVC           |
| Conductor Material  | Bare copper   |
| Drain Wire Material | Tinned copper |
| Insulation Material | FEP           |
| Separator Material  | FEP           |

## Dimensions

|                      |                     |
|----------------------|---------------------|
| Cable Length         | 305 m   1000 ft     |
| Cable Weight         | 39.00 lb/kft        |
| Diameter Over Jacket | 7.010 mm   0.276 in |
| Jacket Thickness     | 0.457 mm   0.018 in |

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## Electrical Specifications

|                                       |                      |
|---------------------------------------|----------------------|
| ANSI/TIA Category                     | 6A                   |
| dc Resistance Unbalance, maximum      | 4 %                  |
| dc Resistance, maximum                | 8.00 ohms/100 m      |
| Delay Skew, maximum                   | 45 ns                |
| Mutual Capacitance                    | 5.6 nF/100 m @ 1 kHz |
| Nominal Velocity of Propagation (NVP) | 70 %                 |
| Operating Frequency, maximum          | 500 MHz              |
| Transmission Standards                | ANSI/TIA-568-C.2     |
| Safety Voltage Rating                 | 300 V                |
| Dielectric Strength, minimum          | 1500 Vac   2500 Vdc  |

## Environmental Specifications

|                          |                                     |
|--------------------------|-------------------------------------|
| Environmental Space      | Plenum                              |
| Smoke Test Method        | CMP                                 |
| Flame Test Method        | CMP                                 |
| Installation Temperature | 0 °C to +60 °C (+32 °F to +140 °F)  |
| Operating Temperature    | -20 °C to +60 °C (-4 °F to +140 °F) |

## General Specifications

|                          |                  |
|--------------------------|------------------|
| Cable Type               | F/UTP (shielded) |
| Packaging Type           | Reel             |
| Pairs, quantity          | 4                |
| Cable Component Type     | Horizontal       |
| Jacket Color             | White            |
| Product Number           | CS44P            |
| Brand                    | Uniprise®        |
| Conductor Gauge, singles | 23 AWG           |
| Conductor Type, singles  | Solid            |
| Conductors, quantity     | 8                |
| Drain Wire Gauge         | 24 AWG           |
| Drain Wire Type          | Solid            |
| Separator Type           | Isolator         |

## Mechanical Specifications

|                          |               |
|--------------------------|---------------|
| Pulling Tension, maximum | 11 kg   25 lb |
|--------------------------|---------------|

## Regulatory Compliance/Certifications

| Agency          | Classification                                                                 |
|-----------------|--------------------------------------------------------------------------------|
| RoHS 2011/65/EU | Compliant                                                                      |
| ISO 9001:2008   | Designed, manufactured and/or distributed under this quality management system |



## Electrical Performance

|        |                                                                                                         |
|--------|---------------------------------------------------------------------------------------------------------|
| Std    | Refers to the standard value listed under Transmission Standards in the Electrical Specifications above |
| Typ    | Typical                                                                                                 |
| 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)                                                                                        |

| Freq.<br>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 | 20.0 | 32.9 |
| 4            | 3.8  | 3.3  | 65.3 | 80.4 | 61.5  | 77.1  | 63.3   | 78.2 | 59.5  | 75.0  | 55.8 | 79.7 | 52.8   | 77.8 | 23.0 | 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 | 25.0 | 35.0 |
| 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 | 25.0 | 36.6 |
| 20           | 8.4  | 7.4  | 54.8 | 69.2 | 46.4  | 61.8  | 52.8   | 67.0 | 44.4  | 59.6  | 41.8 | 66.2 | 38.8   | 64.0 | 25.0 | 36.3 |
| 25           | 9.4  | 8.3  | 53.3 | 67.6 | 44.0  | 59.3  | 51.3   | 65.2 | 42.0  | 56.9  | 39.8 | 64.2 | 36.8   | 62.0 | 24.3 | 35.0 |
| 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         | 15.0 | 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 | 54.0 | 17.4  | 32.8  | 39.4   | 51.9 | 15.4  | 30.7  | 24.0 | 48.1 | 21.0   | 46.0 | 18.8 | 24.5 |
| 200          | 27.6 | 24.3 | 39.8 | 50.0 | 12.2  | 25.7  | 37.8   | 48.5 | 10.2  | 24.2  | 21.8 | 46.2 | 18.8   | 44.1 | 18.0 | 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 | 21.0 |
| 300          | 34.3 | 30.0 | 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  | 14.0  | 34.1   | 44.8 | -3.1  | 12.2  | 16.9 | 41.6 | 13.9   | 39.3 | 16.3 | 18.8 |
| 400          | 40.1 | 35.0 | 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 | 2.0   | 13.8 | 37.7 | 10.8   | 35.5 | 15.2 | 16.8 |
| 550          |      | 41.7 |      | 41.8 |       | 0.1   |        | 40.0 |       | -1.8  |      | 35.1 |        | 32.7 |      | 15.2 |
| 650          |      | 45.8 |      | 34.8 |       | -10.9 |        | 33.6 |       | -12.1 |      | 33.6 |        | 31.2 |      | 15.0 |