

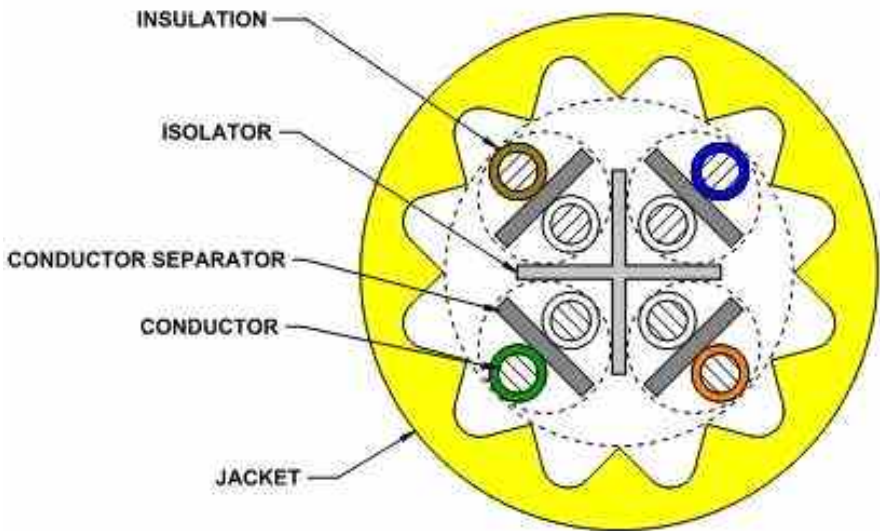


UN874050014/10 | CS44P YEL C6A 4/23 U/UTP CPK 1KFT  
CS44P ETL Verified Category 6A U/UTP Cable, plenum, yellow jacket, 4 pair count, 1000 ft (305 m) length CommPak

## 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 |
| Insulation Material | FEP         |
| Separator Material  | Polyolefin  |

## Dimensions

|                      |                     |
|----------------------|---------------------|
| Cable Length         | 305 m   1000 ft     |
| Cable Weight         | 42.40 lb/kft        |
| Diameter Over Jacket | 7.239 mm   0.285 in |
| Jacket Thickness     | 1.295 mm   0.051 in |

## Electrical Specifications

|                   |    |
|-------------------|----|
| ANSI/TIA Category | 6A |
|-------------------|----|

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|                                       |                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| dc Resistance Unbalance, maximum      | 4 %                                                                                                                      |
| dc Resistance, maximum                | 7.61 ohms/100 m                                                                                                          |
| Mutual Capacitance                    | 6.0 nF/100 m @ 1 kHz                                                                                                     |
| Nominal Velocity of Propagation (NVP) | 66 %                                                                                                                     |
| Operating Frequency, maximum          | 500 MHz                                                                                                                  |
| Transmission Standards                | ANSI/TIA-568-C.2   ISO/IEC 11801 Class EA                                                                                |
| Safety Voltage Rating                 | 300 V                                                                                                                    |
| Dielectric Strength, minimum          | 1500 Vac   2500 Vdc                                                                                                      |
| Note                                  | Consult ANSI/TIA-568-C.2 Annex G for length de-rating guidance for cable installation in higher temperature environments |

## Environmental Specifications

|                          |                                     |
|--------------------------|-------------------------------------|
| Environmental Space      | Plenum                              |
| ETL Temperature Rating   | 75 °C   167 °F                      |
| Flame Test Method        | CMP                                 |
| Installation Temperature | 0 °C to +60 °C (+32 °F to +140 °F)  |
| Operating Temperature    | -20 °C to +75 °C (-4 °F to +167 °F) |

## General Specifications

|                          |                    |
|--------------------------|--------------------|
| Cable Type               | U/UTP (unshielded) |
| Packaging Type           | CommPak® box       |
| Pairs, quantity          | 4                  |
| Cable Component Type     | Horizontal         |
| Jacket Color             | Yellow             |
| Product Number           | CS44P              |
| Brand                    | Uniprise®          |
| Conductor Gauge, singles | 23 AWG             |
| Conductor Type, singles  | Solid              |
| Conductors, quantity     | 8                  |
| Separator Type           | Bisector           |

## 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  | 1.8  | 74.3 | 90.6 | 72.2  | 88.8 | 72.3   | 88.3 | 70.2  | 86.5 | 67.8 | 82.1 | 64.8   | 80.3 | 20.0 | 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 | 23.0 | 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 | 25.0 | 37.7 |
| 16           | 7.5  | 7.3  | 56.2 | 73.1 | 48.8  | 65.9 | 54.2   | 71.3 | 46.8  | 64.0 | 43.7 | 58.2 | 40.7   | 56.4 | 25.0 | 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 | 25.0 | 38.7 |
| 25           | 9.4  | 9.1  | 53.3 | 70.2 | 44.0  | 61.1 | 51.3   | 68.3 | 42.0  | 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         | 15.0 | 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   | 59.0 | 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  | 35.0 | 39.4   | 56.4 | 15.4  | 33.0 | 24.0 | 38.9 | 21.0   | 37.0 | 18.8 | 30.8 |
| 200          | 27.6 | 26.8 | 39.8 | 56.0 | 12.2  | 29.2 | 37.8   | 54.2 | 10.2  | 27.4 | 21.8 | 36.6 | 18.8   | 34.6 | 18.0 | 30.0 |
| 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 | 36.0 | 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  | 12.0 | 33.3   | 48.8 | -6.8  | 10.0 | 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 | 32.0 |
| 550          |      | 43.8 |      | 48.0 |       | 4.1  |        | 45.9 |       | 2.0  |      | 28.6 |        | 26.7 |      | 31.9 |
| 650          |      | 50.2 |      | 43.5 |       | -6.7 |        | 41.5 |       | -8.8 |      | 25.7 |        | 23.5 |      | 25.3 |