

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



Product Classification

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

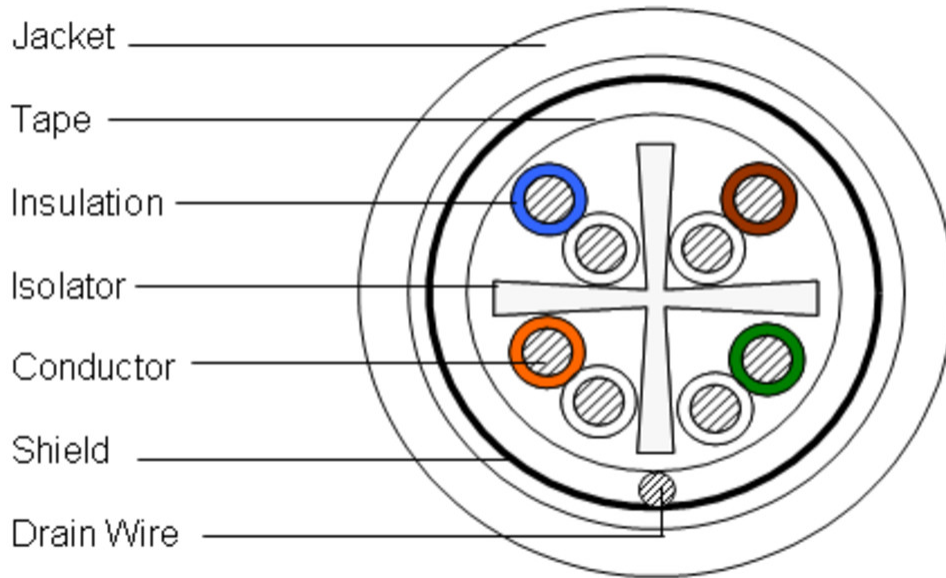
General Specifications

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

Dimensions

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

Cross Section Drawing



Electrical Specifications

| | |
|--|---|
| dc Resistance Unbalance, maximum | 4 % |
| dc Resistance, maximum | 8 ohms/100 m 2.438 ohms/100 ft |
| Delay Skew, maximum | 45 ns |
| Dielectric Strength, minimum | 1500 Vac 2500 Vdc |
| LP (Limited Power) Rating | 0.8 A |
| Mutual Capacitance at Frequency | 5.6 nF/100 m @ 1 kHz |
| Nominal Velocity of Propagation (NVP) | 70 % |
| Operating Frequency, maximum | 500 MHz |
| Operating Voltage, maximum | 80 V |
| Remote Powering | 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 |
| Safety Voltage Rating | 300 V |

Electrical Cable Performance

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

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

Mechanical Specifications

Pulling Tension, maximum 11.34 kg | 25 lb

Environmental Specifications

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

Packaging and Weights

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|-----------------------|--------------------------|
| Cable weight | 58.038 kg/km 39 lb/kft |
| Packaging Type | Reel |

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| 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 www.commscope.com/ProductCompliance |
| ROHS | Compliant |

