

CS44R ETL Verified Category 6A F/UTP Cable, non-plenum, gray jacket, 4 pair count, 3000 ft (914 m) length reel



Product Classification

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

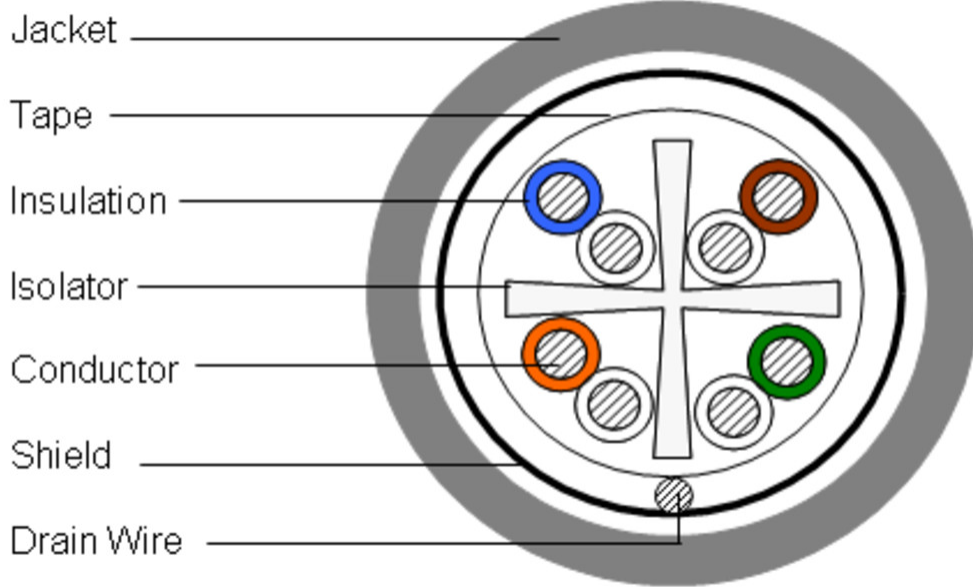
General Specifications

| | |
|--------------------------------|------------------|
| Product Number | CS44R |
| 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 | Gray |
| Pairs, quantity | 4 |
| Separator Type | Isolator |
| Transmission Standards | ANSI/TIA-568.2-D |

Dimensions

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|--------------------------------------|---------------------|
| Cable Length | 914.4 m 3000 ft |
| Diameter Over Jacket, nominal | 7.518 mm 0.296 in |
| Jacket Thickness | 0.508 mm 0.02 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 |
| Mutual Capacitance at Frequency | 5.6 nF/100 m @ 1 kHz |
| Nominal Velocity of Propagation (NVP) | 68 % |
| 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 | 89 | 72.2 | 87.2 | 72.3 | 86.6 | 70.2 | 84.9 | 67.8 | 89.2 | 64.8 | 86.9 | 20 | 30.9 |
| 4 | 3.8 | 3.4 | 65.3 | 83.6 | 61.5 | 80.2 | 63.3 | 81.5 | 59.5 | 78.2 | 55.8 | 82.1 | 52.8 | 80 | 23 | 33.5 |
| 8 | 5.3 | 4.8 | 60.8 | 76.6 | 55.4 | 71.8 | 58.8 | 74.8 | 53.4 | 70 | 49.7 | 75.2 | 46.7 | 73.4 | 24.5 | 35 |
| 10 | 5.9 | 5.4 | 59.3 | 75.7 | 53.4 | 70.4 | 57.3 | 73.9 | 51.4 | 68.5 | 47.8 | 72.8 | 44.8 | 71.1 | 25 | 36 |
| 16 | 7.5 | 6.8 | 56.2 | 73.4 | 48.8 | 66.6 | 54.2 | 71.4 | 46.8 | 64.6 | 43.7 | 69.4 | 40.7 | 67.6 | 25 | 37.2 |
| 20 | 8.4 | 7.6 | 54.8 | 71.9 | 46.4 | 64.3 | 52.8 | 69.8 | 44.4 | 62.2 | 41.8 | 67.5 | 38.8 | 65.9 | 25 | 36.2 |
| 25 | 9.4 | 8.5 | 53.3 | 70.1 | 44 | 61.6 | 51.3 | 68.1 | 42 | 59.6 | 39.8 | 65.7 | 36.8 | 64 | 24.3 | 34.9 |
| 31.25 | 10.5 | 9.5 | 51.9 | 68.5 | 41.4 | 59 | 49.9 | 66.4 | 39.4 | 56.9 | 37.9 | 63.5 | 34.9 | 61.8 | 23.6 | 34.6 |
| 62.5 | 15 | 13.5 | 47.4 | 64.6 | 32.4 | 51.1 | 45.4 | 62.5 | 30.4 | 49 | 31.9 | 57.8 | 28.9 | 56.1 | 21.5 | 31.7 |
| 100 | 19.1 | 17.2 | 44.3 | 61.1 | 25.2 | 43.9 | 42.3 | 59.2 | 23.2 | 42 | 27.8 | 54.8 | 24.8 | 52.8 | 20.1 | 27.8 |
| 155 | 24.1 | 21.5 | 41.4 | 58.1 | 17.4 | 36.6 | 39.4 | 56 | 15.4 | 34.5 | 24 | 49.8 | 21 | 47.9 | 18.8 | 24.5 |
| 200 | 27.6 | 24.5 | 39.8 | 55.3 | 12.2 | 30.8 | 37.8 | 53.3 | 10.2 | 28.8 | 21.8 | 47.8 | 18.8 | 45.9 | 18 | 23.3 |
| 250 | 31.1 | 27.5 | 38.3 | 52.7 | 7.3 | 25.2 | 36.3 | 50.8 | 5.3 | 23.3 | 19.8 | 45.6 | 16.8 | 43.7 | 17.3 | 20.9 |
| 300 | 34.3 | 30.2 | 37.1 | 50.6 | 2.9 | 20.3 | 35.1 | 48.8 | 0.9 | 18.6 | 18.3 | 44.5 | 15.3 | 42.3 | 16.8 | 20.2 |
| 350 | 37.2 | 32.8 | 36.1 | 48.5 | -1.1 | 15.8 | 34.1 | 46.9 | -3.1 | 14.1 | 16.9 | 42.6 | 13.9 | 40.4 | 16.3 | 19.4 |
| 400 | 40.1 | 35.1 | 35.3 | 48.3 | -4.8 | 13.1 | 33.3 | 46.5 | -6.8 | 11.4 | 15.8 | 40.1 | 12.8 | 38 | 15.9 | 18.4 |
| 500 | 45.3 | 39.6 | 33.8 | 47.4 | -11.4 | 7.8 | 31.8 | 45.3 | -13.4 | 5.8 | 13.8 | 38.1 | 10.8 | 35.9 | 15.2 | 17.7 |
| 550 | | 41.7 | | 46.1 | | 4.4 | | 44.1 | | 2.4 | | 36.5 | | 34.1 | | 16.9 |

Material Specifications

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

Mechanical Specifications

Pulling Tension, maximum 11.34 kg | 25 lb

Environmental Specifications

UN884033984/30 | CS44R GRY C6A 4/23 F/UTP RL 3KFT

| | |
|---------------------------------|------------------------------------------|
| 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 | Non-plenum |
| Flame Test Method | CMR NEC Article 800 UL 1666 UL 444 |

Packaging and Weights

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|-----------------------|-----------------------------|
| Cable weight | 57.518 kg/km 38.65 lb/kft |
| Packaging Type | Reel |

Regulatory Compliance/Certifications

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