



CS34R Category 6 F/UTP Cable, non-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 |

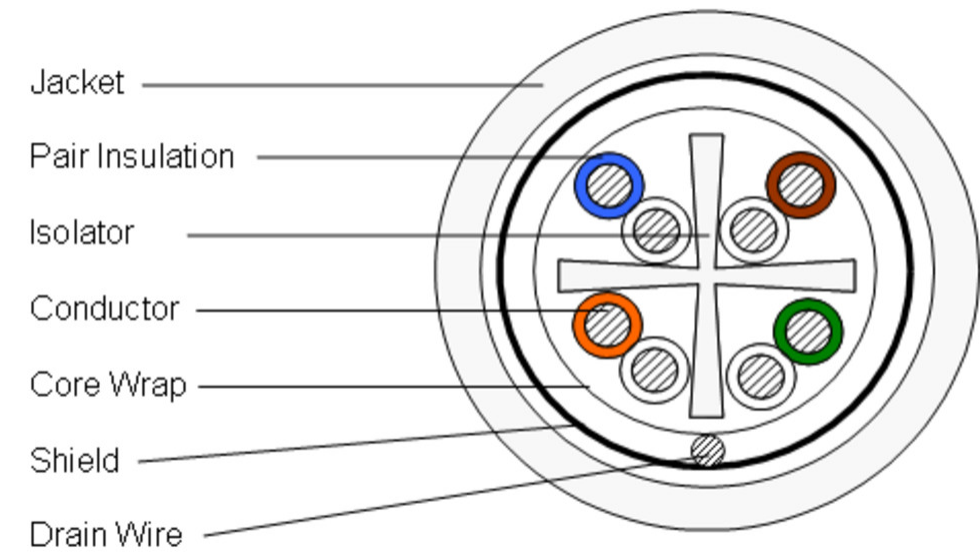
General Specifications

| | |
|-------------------------|--|
| Product Number | CS34R |
| ANSI/TIA Category | 6 |
| Cable Component Type | Horizontal |
| Cable Type | F/UTP (shielded) |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |
| Drain Wire Type | Solid |
| Jacket Color | White |
| Note | All electrical transmission tests include swept frequency measurements |
| Pairs, quantity | 4 |
| Separator Type | Isolator |
| Transmission Standards | ANSI/TIA-568.2-D CENELEC EN 50288-6-1 ISO/IEC 11801 Class E |

Dimensions

| | |
|-------------------------------|---------------------|
| Cable Length | 304.8 m 1000 ft |
| Diameter Over Jacket, nominal | 7.315 mm 0.288 in |
| Jacket Thickness | 0.508 mm 0.02 in |
| Conductor Gauge, singles | 23 AWG |
| Drain Wire Gauge | 26 AWG |

Cross Section Drawing



Electrical Specifications

| | |
|---------------------------------------|---|
| Characteristic Impedance | 100 ohm |
| dc Resistance Unbalance, maximum | 5 % |
| 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 | 250 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 | | |
| STD | Refers to the standard value listed under Transmission Standards in the Electrical Specifications above | | |
| TYP | Typical Electrical Performance | | |
| 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) |
| TCL | Transverse Conversion Loss (dB/100m) | ELTCTL | Equal Level Transverse Conversion Transfer 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 | 1.7 | 74.3 | 87.7 | 72.3 | 85.9 | 72.3 | 85.3 | 70.3 | 83.6 | 67.8 | 88.5 | 64.8 | 85.8 | 20 | 31.2 |
| 4 | 3.8 | 3.3 | 65.3 | 82 | 61.5 | 78.7 | 63.3 | 79.8 | 59.5 | 76.4 | 55.8 | 80.8 | 52.8 | 79 | 23 | 32.7 |
| 8 | 5.3 | 4.7 | 60.8 | 76.7 | 55.4 | 72 | 58.8 | 74.6 | 53.4 | 69.9 | 49.7 | 75 | 46.7 | 73.2 | 24.5 | 35.3 |
| 10 | 6 | 5.2 | 59.3 | 74.4 | 53.3 | 69.1 | 57.3 | 72.5 | 51.3 | 67.3 | 47.8 | 73 | 44.8 | 71.2 | 25 | 36.5 |
| 16 | 7.6 | 6.7 | 56.2 | 71.2 | 48.7 | 64.6 | 54.2 | 69.3 | 46.7 | 62.6 | 43.7 | 69.2 | 40.7 | 67.2 | 25 | 36.6 |
| 20 | 8.5 | 7.5 | 54.8 | 69.8 | 46.3 | 62.3 | 52.8 | 67.9 | 44.3 | 60.4 | 41.8 | 67.3 | 38.8 | 65.4 | 25 | 36.3 |
| 25 | 9.5 | 8.4 | 53.3 | 68.4 | 43.8 | 60.1 | 51.3 | 66.4 | 41.8 | 58.1 | 39.8 | 65.3 | 36.8 | 63.5 | 24.3 | 35.6 |
| 31.25 | 10.7 | 9.3 | 51.9 | 66.9 | 41.2 | 57.6 | 49.9 | 64.9 | 39.2 | 55.6 | 37.9 | 63.4 | 34.9 | 61.6 | 23.6 | 33.9 |
| 62.5 | 15.4 | 13.3 | 47.4 | 62.8 | 32 | 49.5 | 45.4 | 60.8 | 30 | 47.6 | 31.9 | 57.3 | 28.9 | 55.4 | 21.5 | 31.3 |
| 100 | 19.8 | 16.9 | 44.3 | 59 | 24.5 | 42.2 | 42.3 | 57.1 | 22.5 | 40.3 | 27.8 | 53.4 | 24.8 | 51.6 | 20.1 | 27.1 |
| 155 | 25.2 | 21.1 | 41.4 | 55.6 | 16.3 | 34.5 | 39.4 | 53.8 | 14.3 | 32.7 | 24 | 49.5 | 21 | 47.5 | 18.8 | 23.7 |
| 200 | 29 | 24.1 | 39.8 | 52.1 | 10.8 | 28 | 37.8 | 50.6 | 8.8 | 26.6 | 21.8 | 47.6 | 18.8 | 45.5 | 18 | 21.8 |
| 250 | 32.8 | 27 | 38.3 | 51.1 | 5.5 | 24.1 | 36.3 | 49.4 | 3.5 | 22.4 | 19.8 | 45.3 | 16.8 | 43.2 | 17.3 | 20.1 |
| 300 | | 29.7 | | 50.1 | | 20.4 | | 48.3 | | 18.6 | | 43.5 | | 41.6 | | 19.1 |
| 350 | | 32.2 | | 48.8 | | 16.7 | | 47 | | 14.8 | | 42.3 | | 40.2 | | 18.1 |
| 400 | | 34.5 | | 47.3 | | 12.7 | | 45.6 | | 11 | | 40.9 | | 38.9 | | 17.2 |
| 500 | | 39 | | 44 | | 5 | | 42.5 | | 3.5 | | 39 | | 36.9 | | 15.9 |
| 550 | | 41.1 | | 43.2 | | 2.1 | | 41.6 | | 0.5 | | 36.2 | | 33.8 | | 15.5 |
| 650 | | 45 | | 43.4 | | -1.6 | | 41.5 | | -2.5 | | 34.6 | | 32.3 | | 15 |

Material Specifications

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|------------------------|---------------------------|
| Conductor Material | Bare copper |
| Drain Wire Material | Tinned copper |
| Insulation Material | Polyolefin |
| Jacket Material | PVC |
| Separator Material | Polyolefin |
| Shield (Tape) Material | Polyester/Aluminum shield |

Mechanical Specifications

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

Packaging and Weights

| | |
|----------------|----------------------------|
| Cable weight | 50.746 kg/km 34.1 lb/kft |
| Packaging Type | Reel |

Regulatory Compliance/Certifications

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