

UN884023404/10 | CS37R BRN C6 4/23 U/UTP RL 1KFT



CS37R ETL Verified Category 6 U/UTP Cable, non-plenum, brown jacket, 4 pair count, 1000 ft (305 m) length, reel

Product Classification

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

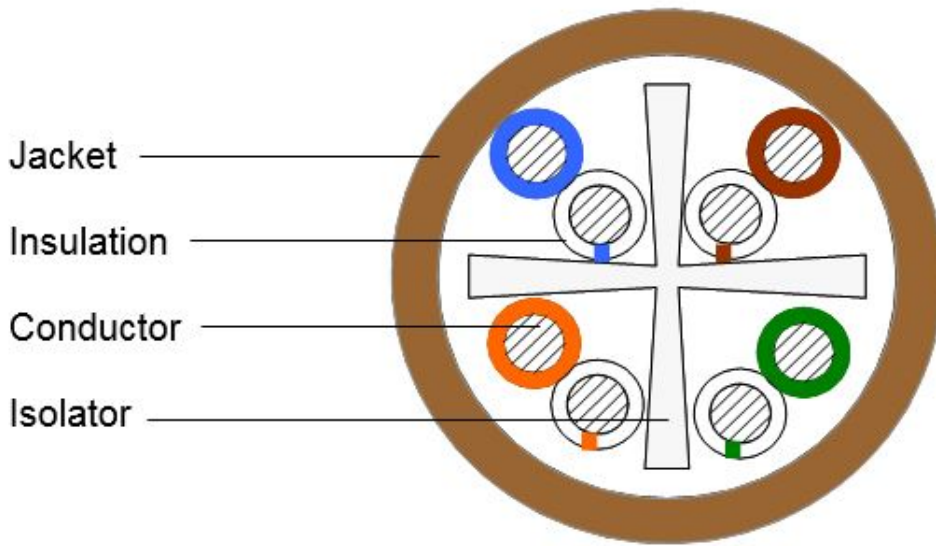
General Specifications

| | |
|--------------------------------|--|
| Product Number | CS37R |
| ANSI/TIA Category | 6 |
| Cable Component Type | Horizontal |
| Cable Type | U/UTP (unshielded) |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |
| Jacket Color | Brown |
| 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 Insulated Conductor | 1.054 mm 0.041 in |
| Diameter Over Jacket, nominal | 5.766 mm 0.227 in |
| Jacket Thickness | 0.508 mm 0.02 in |
| Conductor Gauge, singles | 23 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) | 69 % |
| Operating Frequency, maximum | 400 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 | | |
|-----------|------|------|------|------|------|------|------|------|------|--------|------|------|-------|------|------|------|------|------|--------|------|------|------|------|------|
| | CS | STD | TYP | CS | STD | TYP | CS | STD | TYP | CS | STD | TYP | CS | STD | TYP | CS | STD | TYP | CS | STD | TYP | CS | STD | TYP |
| 1 | 2 | 2 | 1.8 | 77.3 | 74.3 | 90.3 | 75.3 | 72.3 | 88.5 | 75.3 | 72.3 | 88.1 | 73.3 | 70.3 | 86.3 | 68.8 | 67.8 | 84.1 | 65.8 | 64.8 | 82.6 | 20 | 20 | 32 |
| 4 | 3.8 | 3.8 | 3.6 | 68.3 | 65.3 | 82.7 | 64.5 | 61.5 | 79.1 | 66.3 | 63.3 | 80.4 | 62.5 | 59.5 | 76.8 | 56.8 | 55.8 | 72.7 | 53.8 | 52.8 | 71.4 | 23.6 | 23 | 30 |
| 8 | 5.3 | 5.3 | 5.1 | 63.8 | 60.8 | 78.1 | 58.5 | 55.4 | 72.9 | 61.8 | 58.8 | 75.8 | 56.5 | 53.4 | 70.6 | 50.7 | 49.7 | 66.9 | 47.7 | 46.7 | 65.5 | 25.4 | 24.5 | 34.3 |
| 10 | 5.9 | 6 | 5.8 | 62.3 | 59.3 | 76.5 | 56.4 | 53.3 | 70.7 | 60.3 | 57.3 | 74.3 | 54.4 | 51.3 | 68.5 | 48.8 | 47.8 | 65 | 45.8 | 44.8 | 63.6 | 26 | 25 | 34.9 |
| 16 | 7.5 | 7.6 | 7.3 | 59.2 | 56.2 | 73.5 | 51.7 | 48.7 | 66.1 | 57.2 | 54.2 | 71.3 | 49.7 | 46.7 | 64 | 44.7 | 43.7 | 61 | 41.7 | 40.7 | 59.5 | 26 | 25 | 35.2 |
| 20 | 8.4 | 8.5 | 8.2 | 57.8 | 54.8 | 72 | 49.4 | 46.3 | 63.8 | 55.8 | 52.8 | 69.8 | 47.4 | 44.3 | 61.6 | 42.8 | 41.8 | 59 | 39.8 | 38.8 | 57.6 | 26 | 25 | 35 |
| 25 | 9.4 | 9.5 | 9.2 | 56.3 | 53.3 | 70.3 | 46.9 | 43.8 | 61 | 54.3 | 51.3 | 68.2 | 44.9 | 41.8 | 58.9 | 40.8 | 39.8 | 57.1 | 37.8 | 36.8 | 55.7 | 25.3 | 24.3 | 36.1 |
| 31.25 | 10.6 | 10.7 | 10.3 | 54.9 | 51.9 | 68.9 | 44.3 | 41.2 | 58.6 | 52.9 | 49.9 | 66.8 | 42.3 | 39.2 | 56.5 | 38.9 | 37.9 | 55.2 | 35.9 | 34.9 | 53.8 | 24.6 | 23.6 | 36.4 |
| 62.5 | 15.3 | 15.4 | 14.8 | 50.4 | 47.4 | 63.8 | 35.1 | 32 | 49 | 48.4 | 45.4 | 61.7 | 33.1 | 30 | 46.8 | 32.9 | 31.9 | 49 | 29.9 | 28.9 | 47.6 | 22.5 | 21.5 | 34.1 |
| 100 | 19.7 | 19.8 | 19 | 47.3 | 44.3 | 60.5 | 27.6 | 24.5 | 41.6 | 45.3 | 42.3 | 58.3 | 25.6 | 22.5 | 39.3 | 28.8 | 27.8 | 44.7 | 25.8 | 24.8 | 43.3 | 21.1 | 20.1 | 32.4 |
| 155 | 25 | 25.2 | 23.9 | 44.4 | 41.4 | 58.6 | 19.5 | 16.3 | 34.7 | 42.4 | 39.4 | 56.3 | 17.5 | 14.3 | 32.4 | 25 | 24 | 41.3 | 22 | 21 | 39.8 | 19.8 | 18.8 | 30 |
| 200 | 28.8 | 29 | 27.4 | 42.8 | 39.8 | 55.4 | 14 | 10.8 | 28 | 40.8 | 37.8 | 53.3 | 12 | 8.8 | 26 | 22.8 | 21.8 | 38.5 | 19.8 | 18.8 | 37.1 | 19 | 18 | 29.3 |
| 250 | 32.6 | 32.8 | 30.8 | 41.3 | 38.3 | 54 | 8.7 | 5.5 | 23.2 | 39.3 | 36.3 | 51.9 | 6.7 | 3.5 | 21 | 20.8 | 19.8 | 36.5 | 17.8 | 16.8 | 35 | 18.3 | 17.3 | 28.3 |
| 300 | 36.2 | | 34 | 40.1 | | 52.2 | 4 | | 18.2 | 38.1 | | 50.2 | 2 | | 16.2 | 19.3 | | 34.6 | 16.3 | | 33.1 | 17.8 | | 28.2 |
| 350 | 39.5 | | 37 | 39.1 | | 50.9 | -0.4 | | 14 | 37.1 | | 48.9 | -2.4 | | 12 | 17.9 | | 33 | 14.9 | | 31.4 | 17.3 | | 28.1 |
| 400 | 42.7 | | 39.7 | 38.3 | | 49.9 | -4.4 | | 10.2 | 36.3 | | 47.9 | -6.4 | | 8.2 | 16.8 | | 30.9 | 13.8 | | 29.4 | 16.9 | | 28.6 |
| 500 | | | 45.2 | | | 47.5 | | | 2.3 | | | 45.5 | | | 0.3 | | | 26.9 | | | 25.2 | | | 28.5 |
| 550 | | | 44.9 | | | 50.9 | | | 6 | | | 48.8 | | | 3.9 | | | 28.7 | | | 27.3 | | | 33.6 |
| 650 | | | 49.8 | | | 46.4 | | | -2.5 | | | 44.2 | | | -5.6 | | | 23.3 | | | 21.5 | | | 25.3 |

Material Specifications

| | |
|----------------------------|-------------|
| Conductor Material | Bare copper |
| Insulation Material | Polyolefin |
| Jacket Material | PVC |
| Separator Material | Polyolefin |

Mechanical Specifications

Pulling Tension, maximum 11.34 kg | 25 lb

Environmental Specifications

UN884023404/10 | CS37R BRN C6 4/23 U/UTP RL 1KFT

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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 |
| Temperature Rating, UL | 75 °C 167 °F |
| Flame Test Method | CMR NEC Article 800 UL 1666 UL 444 |

Packaging and Weights

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|-----------------------|-----------------------------|
| Cable weight | 36.639 kg/km 24.62 lb/kft |
| Packaging Type | Reel |

Regulatory Compliance/Certifications

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

