

884021714/10 | CS24R GRN C5E 4/24 U/UTP CPK 1KFT

ETL Verified Category 5e U/UTP Cable, non-plenum, green jacket, 4 pair count, 1000 ft (305 m) length, CommPak



Product Classification

| | |
|------------------------------|--|
| Regional Availability | Asia Australia/New Zealand Latin America North America |
| Portfolio | CommScope® |
| Product Type | Twisted pair cable |

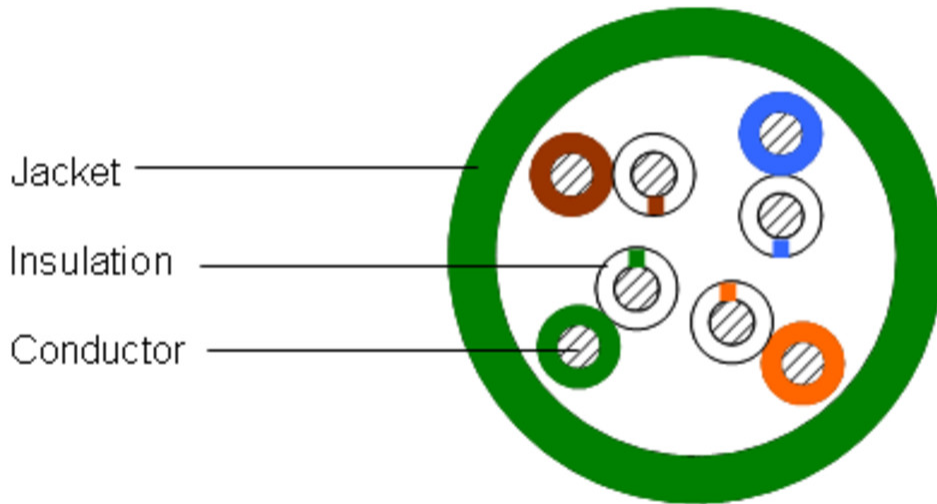
General Specifications

| | |
|--------------------------------|--|
| Product Number | CS24R |
| ANSI/TIA Category | 5e |
| Cable Component Type | Horizontal |
| Cable Type | U/UTP (unshielded) |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |
| Jacket Color | Green |
| Note | All electrical transmission tests include swept frequency measurements |
| Pairs, quantity | 4 |
| Transmission Standards | ANSI/TIA-568.2-D CENELEC EN 50288-3-1 ISO/IEC 11801 Class D |

Dimensions

| | |
|--------------------------------------|---------------------|
| Cable Length | 304.8 m 1000 ft |
| Diameter Over Jacket, nominal | 4.953 mm 0.195 in |
| Jacket Thickness | 0.508 mm 0.02 in |
| Conductor Gauge, singles | 24 AWG |

Cross Section Drawing



Electrical Specifications

| | |
|--|---|
| Characteristic Impedance | 100 ohm |
| dc Resistance Unbalance, maximum | 5 % |
| dc Resistance, maximum | 9.38 ohms/100 m 2.859 ohms/100 ft |
| Delay Skew, maximum | 15 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 | 200 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 | 2.1 | 65.3 | 65.3 | 81.5 | 63.3 | 63.3 | 79.4 | 62.3 | 62.3 | 79.2 | 60.3 | 60.3 | 77.1 | 63.8 | 63.8 | 76.4 | 60.8 | 60.8 | 74.7 | 20 | 20 | 33.5 |
| 4 | 4.1 | 4.1 | 3.9 | 56.3 | 56.3 | 72.9 | 52.2 | 52.2 | 69 | 53.3 | 53.3 | 70.5 | 49.2 | 49.2 | 66.6 | 51.8 | 51.8 | 64.8 | 48.8 | 48.8 | 63.1 | 23 | 23 | 33.5 |
| 8 | 5.8 | 5.8 | 5.5 | 51.8 | 51.8 | 68.3 | 46 | 46 | 62.7 | 48.8 | 48.8 | 65.9 | 43 | 43 | 60.4 | 45.7 | 45.7 | 58.9 | 42.7 | 42.7 | 57.2 | 24.5 | 24.5 | 36.6 |
| 10 | 6.5 | 6.5 | 6.2 | 50.3 | 50.3 | 66.7 | 43.8 | 43.8 | 60.6 | 47.3 | 47.3 | 64.2 | 40.8 | 40.8 | 58.1 | 43.8 | 43.8 | 57 | 40.8 | 40.8 | 55.3 | 25 | 25 | 36.7 |
| 16 | 8.2 | 8.2 | 7.8 | 47.2 | 47.2 | 63.6 | 39 | 39 | 55.8 | 44.2 | 44.2 | 61.2 | 36 | 36 | 53.4 | 39.7 | 39.7 | 52.9 | 36.7 | 36.7 | 51.1 | 25 | 25 | 38.5 |
| 20 | 9.3 | 9.3 | 8.7 | 45.8 | 45.8 | 62 | 36.5 | 36.5 | 53.2 | 42.8 | 42.8 | 59.5 | 33.5 | 33.5 | 50.8 | 37.8 | 37.8 | 51 | 34.8 | 34.8 | 49.2 | 25 | 25 | 38.8 |
| 25 | 10.4 | 10.4 | 9.8 | 44.3 | 44.3 | 60.3 | 33.9 | 33.9 | 50.5 | 41.3 | 41.3 | 57.9 | 30.9 | 30.9 | 48.2 | 35.8 | 35.8 | 48.9 | 32.8 | 32.8 | 47.2 | 24.3 | 24.3 | 39.4 |
| 31.25 | 11.7 | 11.7 | 11 | 42.9 | 42.9 | 58.9 | 31.2 | 31.2 | 47.9 | 39.9 | 39.9 | 56.6 | 28.2 | 28.2 | 45.7 | 33.9 | 33.9 | 47 | 30.9 | 30.9 | 45.2 | 23.6 | 23.6 | 39.8 |
| 62.5 | 17 | 17 | 15.6 | 38.4 | 38.4 | 54.2 | 21.4 | 21.4 | 38.6 | 35.4 | 35.4 | 51.9 | 18.4 | 18.4 | 36.2 | 27.9 | 27.9 | 40.8 | 24.9 | 24.9 | 39 | 21.5 | 21.5 | 34.7 |
| 100 | 22 | 22 | 20 | 35.3 | 35.3 | 50.9 | 13.3 | 13.3 | 30.9 | 32.3 | 32.3 | 48.6 | 10.3 | 10.3 | 28.6 | 23.8 | 23.8 | 36.9 | 20.8 | 20.8 | 35.1 | 20.1 | 20.1 | 30.9 |
| 155 | 28.1 | | 25.1 | 32.4 | | 47.8 | 4.4 | | 22.7 | 29.4 | | 45.3 | 1.4 | | 20.2 | 20 | | 33.1 | 17 | | 31.3 | 18.8 | | 28.3 |
| 200 | 32.4 | | 28.8 | 30.8 | | 45.6 | -1.6 | | 16.8 | 27.8 | | 43.3 | -4.6 | | 14.5 | 17.8 | | 30.7 | 14.8 | | 28.8 | 18 | | 27.6 |
| 250 | | | 32.4 | | | 43.7 | | | 11.3 | | | 41.4 | | | 9.1 | | | 28.7 | | | 26.8 | | | 26.9 |
| 300 | | | 35.7 | | | 42 | | | 6.3 | | | 39.7 | | | 4 | | | 27 | | | 25.1 | | | 26.5 |
| 350 | | | 38.9 | | | 40.5 | | | 1.6 | | | 38.3 | | | -0.6 | | | 25.2 | | | 23.3 | | | 25.6 |

Material Specifications

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

Mechanical Specifications

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|---------------------------------|------------------|
| Pulling Tension, maximum | 11.34 kg 25 lb |
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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 27.977 kg/km | 18.8 lb/kft
Packaging Type CommPak® box

Regulatory Compliance/Certifications

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