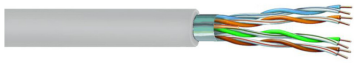


884025404/10 | CS24R GRY C5E 4/24 F/UTP RL 1KFT



Category 5e F/UTP Cable, non-plenum, gray jacket, 4 pair count, 1000 ft (305 m) length, reel

Product Classification

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

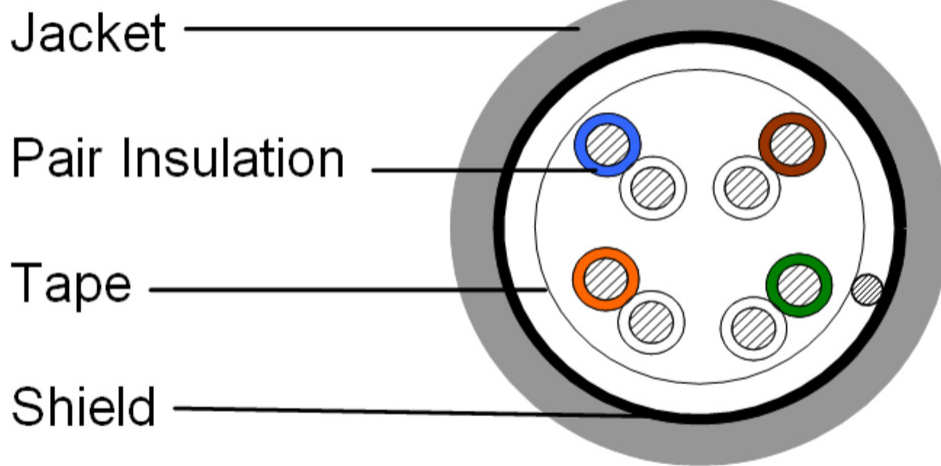
General Specifications

| | |
|--------------------------------|--|
| Product Number | CS24R |
| ANSI/TIA Category | 5e |
| Cable Component Type | Horizontal |
| Cable Type | F/UTP (shielded) |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |
| Drain Wire Type | Solid |
| Jacket Color | Gray |
| 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 | 6.147 mm 0.242 in |
| Jacket Thickness | 0.508 mm 0.02 in |
| Conductor Gauge, singles | 24 AWG |
| Drain Wire Gauge | 26 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 | 100 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 | 1.9 | 65.3 | 83.1 | 63.3 | 81.2 | 62.3 | 80.8 | 60.3 | 78.9 | 63.8 | 84.4 | 60.8 | 82.4 | 20 | 33 |
| 4 | 4.1 | 3.7 | 56.3 | 73.4 | 52.2 | 69.8 | 53.3 | 71.3 | 49.2 | 67.6 | 51.8 | 73.3 | 48.8 | 71.4 | 23 | 30.6 |
| 8 | 5.8 | 5.2 | 51.8 | 69 | 46 | 63.9 | 48.8 | 67 | 43 | 61.8 | 45.7 | 67.4 | 42.7 | 65.5 | 24.5 | 31.5 |
| 10 | 6.5 | 5.8 | 50.3 | 67.2 | 43.8 | 61.4 | 47.3 | 65.1 | 40.8 | 59.3 | 43.8 | 65.4 | 40.8 | 63.5 | 25 | 32.4 |
| 16 | 8.2 | 7.4 | 47.2 | 64.1 | 39 | 56.8 | 44.2 | 62 | 36 | 54.7 | 39.7 | 61.3 | 36.7 | 59.4 | 25 | 31.8 |
| 20 | 9.3 | 8.2 | 45.8 | 62.6 | 36.5 | 54.4 | 42.8 | 60.5 | 33.5 | 52.2 | 37.8 | 59.4 | 34.8 | 57.4 | 25 | 33 |
| 25 | 10.4 | 9.2 | 44.3 | 60.9 | 33.9 | 51.6 | 41.3 | 58.8 | 30.9 | 49.6 | 35.8 | 57.6 | 32.8 | 55.5 | 24.3 | 33.1 |
| 31.25 | 11.7 | 10.3 | 42.9 | 59.6 | 31.2 | 49.2 | 39.9 | 57.4 | 28.2 | 47.1 | 33.9 | 55.6 | 30.9 | 53.5 | 23.6 | 33.4 |
| 62.5 | 17 | 14.7 | 38.4 | 54.4 | 21.4 | 39.8 | 35.4 | 52.4 | 18.4 | 37.7 | 27.9 | 49.5 | 24.9 | 47.4 | 21.5 | 32.9 |
| 100 | 22 | 18.6 | 35.3 | 51 | 13.3 | 32.4 | 32.3 | 48.9 | 10.3 | 30.2 | 23.8 | 45.5 | 20.8 | 43.3 | 20.1 | 29.9 |
| 155 | | 23.4 | | 46.9 | | 23.5 | | 45.1 | | 21.7 | | 41.3 | | 39.3 | | 28 |
| 200 | | 26.7 | | 45.1 | | 18.4 | | 43.2 | | 16.5 | | 39.1 | | 37 | | 26 |
| 250 | | 29.9 | | 44.8 | | 14.9 | | 42.7 | | 12.8 | | 37.1 | | 35.1 | | 25.1 |
| 300 | | 32.9 | | 43 | | 10.1 | | 40.9 | | 8 | | 35.6 | | 33.4 | | 25 |
| 350 | | 35.7 | | 41.6 | | 5.9 | | 39.7 | | 3.9 | | 34.1 | | 31.8 | | 25.6 |

Material Specifications

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

Mechanical Specifications

Pulling Tension, maximum 11.34 kg | 25 lb

Environmental Specifications

| | |
|---------------------------------|-------------------------------------|
| Installation temperature | 0 °C to +60 °C (+32 °F to +140 °F) |
| Operating Temperature | -20 °C to +60 °C (-4 °F to +140 °F) |

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

Packaging and Weights

Cable weight 40.18 kg/km | 27 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 |
| UK-ROHS | Compliant |

