

CS41CM, ETL Verified Category 6A U/UTP Cable, non-plenum, gray jacket, 4 pair count, 1000 ft (305 m) length reel

## Product Classification

|                              |                              |
|------------------------------|------------------------------|
| <b>Regional Availability</b> | Asia   Australia/New Zealand |
| <b>Portfolio</b>             | NETCONNECT®                  |
| <b>Product Type</b>          | Twisted pair cable           |

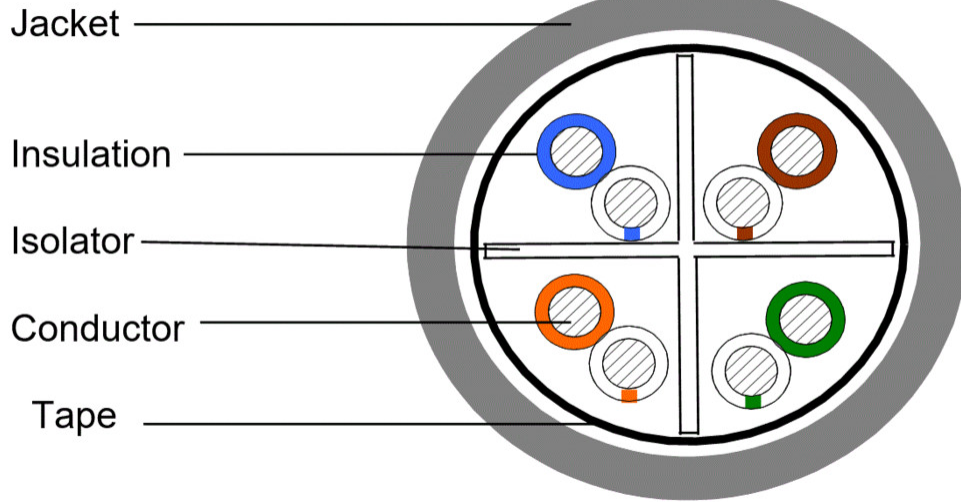
## General Specifications

|                                |                                |
|--------------------------------|--------------------------------|
| <b>Product Number</b>          | CS41CM                         |
| <b>ANSI/TIA Category</b>       | 6A                             |
| <b>Cable Component Type</b>    | Horizontal                     |
| <b>Cable Type</b>              | U/UTP (unshielded)             |
| <b>Conductor Type, singles</b> | Solid                          |
| <b>Conductors, quantity</b>    | 8                              |
| <b>Jacket Color</b>            | Gray                           |
| <b>Pairs, quantity</b>         | 4                              |
| <b>Separator Type</b>          | Isolator                       |
| <b>Transmission Standards</b>  | ANSI/TIA-568.2-D   IEC 61156-5 |

## Dimensions

|  |                     |
|--|---------------------|
| <b>Cable Length</b>                      | 304.8 m   1000 ft   |
| <b>Diameter Over Insulated Conductor</b> | 1.08 mm   0.043 in  |
| <b>Diameter Over Jacket, nominal</b>     | 6.985 mm   0.275 in |
| <b>Jacket Thickness</b>                  | 0.508 mm   0.02 in  |
| <b>Conductor Gauge, singles</b>          | 24 AWG              |

## Cross Section Drawing



## Electrical Specifications

|  |   |
|--|---|
| <b>dc Resistance Unbalance, maximum</b>      | 4 %   |
| <b>dc Resistance, maximum</b>                | 8 ohms/100 m   2.438 ohms/100 ft  |
| <b>Delay Skew, maximum</b>                   | 45 ns   |
| <b>Dielectric Strength, minimum</b>          | 1500 Vac   2500 Vdc   |
| <b>Mutual Capacitance at Frequency</b>       | 5.6 nF/100 m @ 1 kHz  |
| <b>Nominal Velocity of Propagation (NVP)</b> | 67 %  |
| <b>Operating Frequency, maximum</b>          | 500 MHz   |
| <b>Operating Voltage, maximum</b>            | 80 V  |
| <b>Remote Powering</b>                       | 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 |
| <b>Safety Voltage Rating</b>                 | 300 V   |

## Electrical Cable Performance

|               |   |               |   |
|---------------|---|---------------|---|
| <b>CS</b>     | CommScope   | <b>NEXT</b>   | Near End Crosstalk (dB/100m)                              |
| <b>STD</b>    | Refers to the standard value listed under Transmission Standards in the Electrical Specifications above | <b>PSNEXT</b> | Power Sum Near End Crosstalk (db/100m)                    |
| <b>TYP</b>    | Typical Electrical Performance  | <b>ACRF</b>   | Attenuation to Crosstalk Ratio - Far End (dB/100m)        |
| <b>IL</b>     | Insertion Loss (dB/100m)  | <b>RL</b>     | Return Loss (dB)  |
| <b>ACR</b>    | Attenuation to Crosstalk Ratio (dB/100m)  | <b>ELTCTL</b> | Equal Level Transverse Conversion Transfer Loss (dB/100m) |
| <b>PSACR</b>  | Power Sum Attenuation to Crosstalk Ratio (dB/100m)  |               |   |
| <b>PSACRF</b> | Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)  |               |   |
| <b>TCL</b>    | Transverse Conversion Loss (dB/100m)  |               |   |

| Freq. MHz | IL   | NEXT | ACR   | PSNEXT | PSACR | ACRF | PSACRF | RL   |
|-----------|------|------|-------|--------|-------|------|--------|------|
|           | STD  | STD  | STD   | STD    | STD   | STD  | STD    | STD  |
| 1         | 2.1  | 75.3 | 73.2  | 72.3   | 70.2  | 68   | 65     | 20   |
| 4         | 3.8  | 66.3 | 62.5  | 63.3   | 59.5  | 55.9 | 53     | 23   |
| 8         | 5.3  | 61.7 | 56.4  | 58.7   | 53.4  | 49.9 | 46.9   | 24.5 |
| 10        | 5.9  | 60.3 | 54.4  | 57.3   | 51.4  | 48   | 45     | 25   |
| 16        | 7.5  | 57.2 | 49.7  | 54.2   | 46.7  | 43.9 | 40.9   | 25   |
| 20        | 8.4  | 55.8 | 47.4  | 52.8   | 44.4  | 42   | 39     | 25   |
| 25        | 9.4  | 54.3 | 44.9  | 51.3   | 41.9  | 40   | 37     | 24.3 |
| 31.25     | 10.5 | 52.9 | 42.4  | 49.9   | 39.4  | 38.1 | 35.1   | 23.6 |
| 62.5      | 15   | 48.4 | 33.4  | 45.4   | 30.4  | 32.1 | 29.1   | 21.5 |
| 100       | 19.1 | 45.3 | 26.2  | 42.3   | 23.2  | 28   | 25     | 20.1 |
| 155       | 24.1 | 42.4 | 18.3  | 39.4   | 15.3  | 24.2 | 21.2   | 18.8 |
| 200       | 27.6 | 40.8 | 13.2  | 37.8   | 10.2  | 22   | 19     | 18   |
| 250       | 31.1 | 39.3 | 8.3   | 36.3   | 5.3   | 20   | 17     | 17.3 |
| 300       | 34.3 | 38.1 | 3.9   | 35.1   | 0.9   | 18.4 | 15.5   | 16.8 |
| 350       | 37.2 | 37.1 | -0.1  | 34.1   | -3.1  | 17.1 | 14.1   | 16.3 |
| 400       | 40.1 | 36.3 | -3.8  | 33.3   | -6.8  | 15.9 | 13     | 15.9 |
| 500       | 45.3 | 34.8 | -10.5 | 31.8   | -13.5 | 14   | 11     | 15.2 |

## Material Specifications

|                            |                    |
|----------------------------|--------------------|
| <b>Conductor Material</b>  | Bare copper        |
| <b>Insulation Material</b> | Polyolefin         |
| <b>Jacket Material</b>     | PVC                |
| <b>Separator Material</b>  | Polyolefin         |
| <b>Tape Material</b>       | Poly/Aluminum/Poly |

## Mechanical Specifications

**Pulling Tension, maximum** 11.34 kg | 25 lb

## Environmental Specifications

# 884044904/10 | CS41CM GRY C6A 4/24 U/UTP RL 305M

---

|                                 |   |
|---------------------------------|---|
| <b>Installation temperature</b> | 0 °C to +60 °C (+32 °F to +140 °F)      |
| <b>Operating Temperature</b>    | -20 °C to +60 °C (-4 °F to +140 °F)     |
| <b>Environmental Space</b>      | Non-plenum                              |
| <b>Flame Test Method</b>        | CM   NEC Article 800   UL 1685   UL 910 |

## Packaging and Weights

|                       |                             |
|-----------------------|-----------------------------|
| <b>Cable weight</b>   | 44.273 kg/km   29.75 lb/kft |
| <b>Packaging Type</b> | Reel                        |

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |

