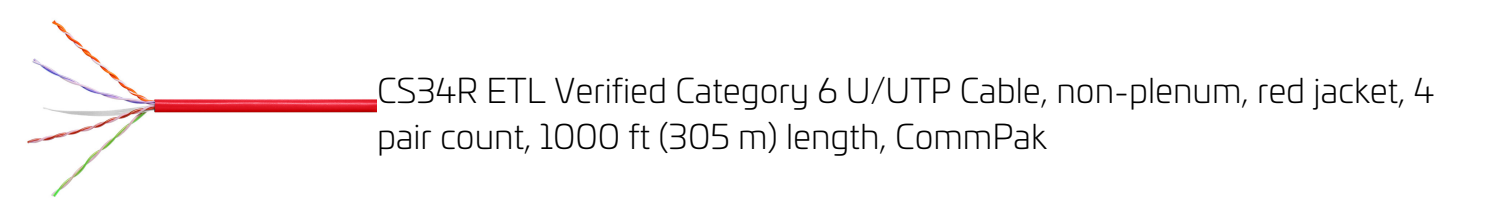


# 884029114/10 | CS34R RED C6 4/23 U/UTP CPK 1KFT



## Product Classification

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

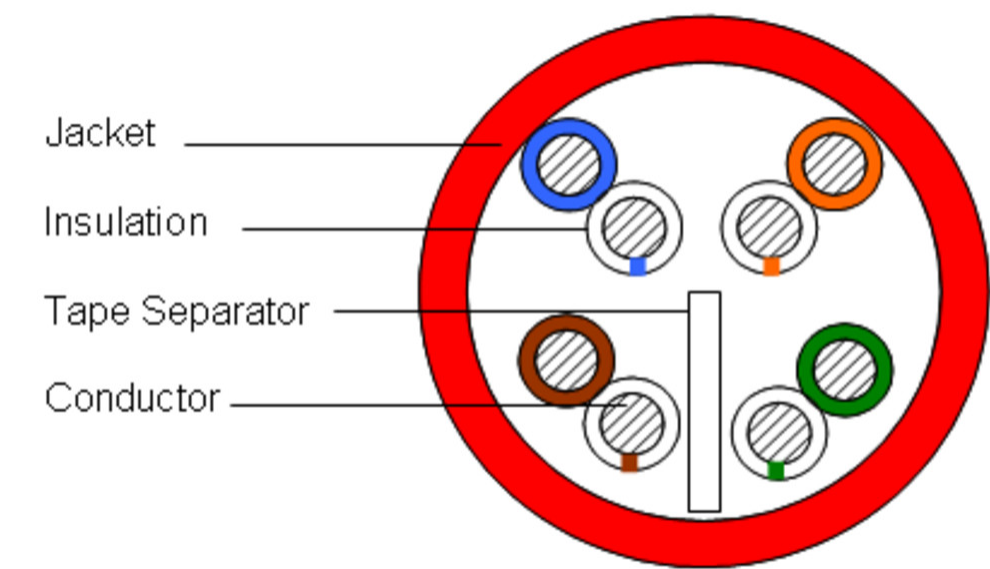
## General Specifications

|                         |  |
|-------------------------|--|
| Product Number          | CS34R  |
| ANSI/TIA Category       | 6  |
| Cable Component Type    | Horizontal   |
| Cable Type              | U/UTP (unshielded)   |
| Conductor Type, singles | Solid  |
| Conductors, quantity    | 8  |
| Jacket Color            | Red  |
| Note                    | All electrical transmission tests include swept frequency measurements |
| Pairs, quantity         | 4  |
| Separator Type          | Tape separator   |
| 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     | 5.588 mm   0.22 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                   | 30 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          | 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.<br>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  | 75.3 | 74.3 | 89.3 | 73.3 | 72.3 | 87.6  | 72.3   | 72.3 | 87   | 70.3  | 70.3 | 85.3  | 68   | 67.8 | 84.3 | 65     | 64.8 | 82.4 | 20   | 20   | 34   |
| 4            | 3.8  | 3.8  | 3.5  | 66.3 | 65.3 | 80   | 62.5 | 61.5 | 76.5  | 63.3   | 63.3 | 77.7 | 59.5  | 59.5 | 74.1  | 56   | 55.8 | 72.6 | 53     | 52.8 | 70.8 | 23   | 23   | 33.9 |
| 8            | 5.3  | 5.3  | 5    | 61.8 | 60.8 | 75.5 | 56.4 | 55.4 | 70.5  | 58.8   | 58.8 | 73.2 | 53.4  | 53.4 | 68.2  | 49.8 | 49.7 | 66.8 | 46.9   | 46.7 | 64.9 | 24.5 | 24.5 | 35.5 |
| 10           | 6    | 6    | 5.6  | 60.3 | 59.3 | 73.9 | 54.3 | 53.3 | 68.3  | 57.3   | 57.3 | 71.5 | 51.3  | 51.3 | 65.9  | 48   | 47.8 | 64.9 | 45     | 44.8 | 63   | 25   | 25   | 36.5 |
| 16           | 7.6  | 7.6  | 7.2  | 57.2 | 56.2 | 70.6 | 49.7 | 48.7 | 63.4  | 54.2   | 54.2 | 68.3 | 46.7  | 46.7 | 61.1  | 43.9 | 43.7 | 60.8 | 40.9   | 40.7 | 58.9 | 25   | 25   | 37.6 |
| 20           | 8.5  | 8.5  | 8.1  | 55.8 | 54.8 | 69.2 | 47.3 | 46.3 | 61.2  | 52.8   | 52.8 | 66.9 | 44.3  | 44.3 | 58.8  | 42   | 41.8 | 58.9 | 39     | 38.8 | 56.9 | 25   | 25   | 38.2 |
| 25           | 9.5  | 9.5  | 9    | 54.3 | 53.3 | 67.6 | 44.8 | 43.8 | 58.6  | 51.3   | 51.3 | 65.3 | 41.8  | 41.8 | 56.2  | 40   | 39.8 | 57   | 37     | 36.8 | 55   | 24.3 | 24.3 | 38.2 |
| 31.25        | 10.7 | 10.7 | 10.1 | 52.9 | 51.9 | 66.3 | 42.2 | 41.2 | 56.1  | 49.9   | 49.9 | 63.9 | 39.2  | 39.2 | 53.8  | 38.1 | 37.9 | 55   | 35.1   | 34.9 | 53   | 23.6 | 23.6 | 38.3 |
| 62.5         | 15.4 | 15.4 | 14.5 | 48.4 | 47.4 | 61.4 | 33   | 32   | 46.9  | 45.4   | 45.4 | 59   | 30    | 30   | 44.5  | 32.1 | 31.9 | 48.9 | 29.1   | 28.9 | 46.9 | 21.5 | 21.5 | 34.7 |
| 100          | 19.8 | 19.8 | 18.6 | 45.3 | 44.3 | 58.1 | 25.5 | 24.5 | 39.5  | 42.3   | 42.3 | 55.7 | 22.5  | 22.5 | 37.1  | 28   | 27.8 | 44.7 | 25     | 24.8 | 42.8 | 20.1 | 20.1 | 31.6 |
| 155          | 25.2 | 25.2 | 23.5 | 42.4 | 41.4 | 55.7 | 17.3 | 16.3 | 32.2  | 39.4   | 39.4 | 53   | 14.3  | 14.3 | 29.5  | 24.2 | 24   | 41   | 21.2   | 21   | 39   | 18.8 | 18.8 | 29.6 |
| 200          | 29   | 29   | 26.9 | 40.8 | 39.8 | 52.6 | 11.8 | 10.8 | 25.7  | 37.8   | 37.8 | 50.4 | 8.8   | 8.8  | 23.4  | 22   | 21.8 | 38.6 | 19     | 18.8 | 36.7 | 18   | 18   | 29.3 |
| 250          | 32.8 | 32.8 | 30.3 | 39.3 | 38.3 | 50.8 | 6.5  | 5.5  | 20.5  | 36.3   | 36.3 | 48.6 | 3.5   | 3.5  | 18.3  | 20   | 19.8 | 36.5 | 17     | 16.8 | 34.7 | 17.3 | 17.3 | 28.8 |
| 300          |      |      | 33.5 |      |      | 49   |      |      | 15.6  |        |      | 46.8 |       |      | 13.4  |      |      | 34.5 |        |      | 32.6 |      |      | 28.9 |
| 350          |      |      | 36.4 |      |      | 47.6 |      |      | 11.2  |        |      | 45.4 |       |      | 9     |      |      | 33   |        |      | 31   |      |      | 29   |
| 400          |      |      | 39   |      |      | 46.3 |      |      | 7.3   |        |      | 44.1 |       |      | 5.1   |      |      | 31.3 |        |      | 29.3 |      |      | 30.3 |
| 500          |      |      | 44.3 |      |      | 43.2 |      |      | -1.1  |        |      | 41.2 |       |      | -3.1  |      |      | 27.3 |        |      | 25.5 |      |      | 31   |
| 550          |      |      | 44.6 |      |      | 43.1 |      |      | -0.5  |        |      | 41.2 |       |      | -2.5  |      |      | 27.4 |        |      | 25.5 |      |      | 31   |
| 650          |      |      | 51.3 |      |      | 40.2 |      |      | -11.1 |        |      | 38.4 |       |      | -12.9 |      |      | 22.3 |        |      | 20.4 |      |      | 25   |

## 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

# 884029114/10 | CS34R RED C6 4/23 U/UTP CPK 1KFT

|                          |  |
|--------------------------|--|
| 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   | 35.091 kg/km   23.58 lb/kft |
| Packaging Type | CommPak® box                |

## Regulatory Compliance/Certifications

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