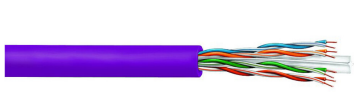


# UN874026384/30 | CS37P VLT C6 4/23 U/UTP RL 3KFT



CS37P ETL Verified Category 6 U/UTP Cable, plenum, violet jacket, 4 pair count, 3000 ft (914 m) length reel

## Product Classification

|                              |                    |
|------------------------------|--------------------|
| <b>Regional Availability</b> | North America      |
| <b>Portfolio</b>             | Uniprise®          |
| <b>Product Type</b>          | Twisted pair cable |

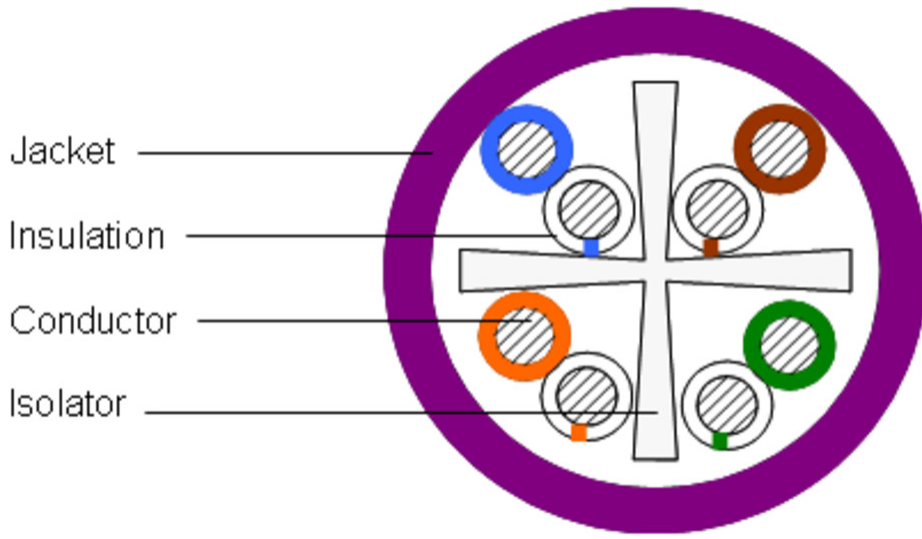
## General Specifications

|                                |  |
|--------------------------------|--|
| <b>Product Number</b>          | CS37P  |
| <b>ANSI/TIA Category</b>       | 6  |
| <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>            | Violet   |
| <b>Note</b>                    | All electrical transmission tests include swept frequency measurements |
| <b>Pairs, quantity</b>         | 4  |
| <b>Separator Type</b>          | Isolator   |
| <b>Transmission Standards</b>  | ANSI/TIA-568.2-D   CENELEC EN 50288-6-1   ISO/IEC 11801 Class E        |

## Dimensions

|  |                     |
|--|---------------------|
| <b>Cable Length</b>                      | 914.4 m   3000 ft   |
| <b>Cable Length Tolerance</b>            | ±5%                 |
| <b>Diameter Over Insulated Conductor</b> | 0.978 mm   0.038 in |
| <b>Diameter Over Jacket, nominal</b>     | 5.639 mm   0.222 in |
| <b>Jacket Thickness</b>                  | 0.483 mm   0.019 in |
| <b>Conductor Gauge, singles</b>          | 23 AWG              |

## Cross Section Drawing



## Electrical Specifications

|  |   |
|--|---|
| <b>Characteristic Impedance</b>              | 100 ohm   |
| <b>dc Resistance Unbalance, maximum</b>      | 5 %   |
| <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> | 75 %  |
| <b>Operating Frequency, maximum</b>          | 400 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   |      |      |
|-----------|------|------|------|------|------|------|------|------|------|--------|------|------|-------|------|------|------|------|------|--------|------|------|------|------|------|
|           | 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

|                            |                  |
|----------------------------|------------------|
| <b>Conductor Material</b>  | Bare copper      |
| <b>Insulation Material</b> | FEP   Polyolefin |
| <b>Jacket Material</b>     | PVC              |
| <b>Separator Material</b>  | FEP              |

## Mechanical Specifications

|                                 |                  |
|---------------------------------|------------------|
| <b>Pulling Tension, maximum</b> | 11.34 kg   25 lb |
|---------------------------------|------------------|

## Environmental Specifications

# UN874026384/30 | CS37P VLT C6 4/23 U/UTP RL 3KFT

---

|                                 |  |
|---------------------------------|--|
| <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>      | Plenum   |
| <b>Temperature Rating, ETL</b>  | 75 °C   167 °F   |
| <b>Flame Test Method</b>        | CMP/FT6   NEC Article 800   NFPA 262   UL 444   UL 910 |
| <b>Smoke Test Method</b>        | CMP/FT6  |

## Packaging and Weights

|                       |                            |
|-----------------------|----------------------------|
| <b>Cable weight</b>   | 41.49 kg/km   27.88 lb/kft |
| <b>Packaging Type</b> | Reel                       |

## Regulatory Compliance/Certifications

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