

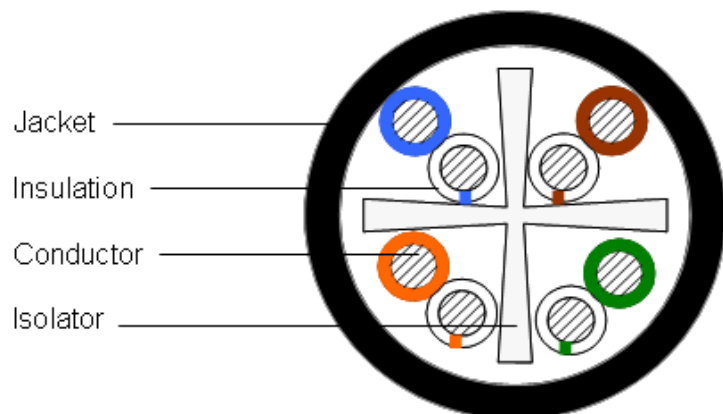
UN884018704/10 | CS37R BLK C6 4/23 U/UTP RL 1KFT

CS37R ETL Verified Category 6 U/UTP Cable, non-plenum, black jacket, 4 pair count, 1000 ft (305 m) length, reel

## Product Classification

|                       |                    |
|-----------------------|--------------------|
| Portfolio             | Uniprise®          |
| Product Type          | Twisted pair cable |
| Regional Availability | North America      |

## Cross Section Drawing



## Construction Materials

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

## Dimensions

|                      |                     |
|----------------------|---------------------|
| Cable Length         | 305 m   1000 ft     |
| Cable Weight         | 24.62 lb/kft        |
| Diameter Over Jacket | 5.766 mm   0.227 in |
| Jacket Thickness     | 0.508 mm   0.020 in |

## Electrical Specifications

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| ANSI/TIA Category                     | 6                                                                      |
| Characteristic Impedance              | 100 ohm                                                                |
| dc Resistance Unbalance, maximum      | 5 %                                                                    |
| dc Resistance, maximum                | 8.00 ohms/100 m                                                        |
| Delay Skew, maximum                   | 45 ns                                                                  |
| Mutual Capacitance                    | 5.6 nF/100 m @ 1 kHz                                                   |
| Nominal Velocity of Propagation (NVP) | 69 %                                                                   |
| Operating Frequency, maximum          | 400 MHz                                                                |
| Transmission Standards                | ANSI/TIA-568-C.2   CENELEC EN 50288-6-1   ISO/IEC 11801 Class E        |
| Safety Voltage Rating                 | 300 V                                                                  |
| Dielectric Strength, minimum          | 1500 Vac   2500 Vdc                                                    |
| Note                                  | All electrical transmission tests include swept frequency measurements |

## Environmental Specifications

|                          |                                     |
|--------------------------|-------------------------------------|
| Environmental Space      | Non-plenum                          |
| Flame Test Method        | CMR                                 |
| Installation Temperature | 0 °C to +60 °C (+32 °F to +140 °F)  |
| Operating Temperature    | -20 °C to +60 °C (-4 °F to +140 °F) |

# Product Specifications



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UL Temperature Rating 75 °C | 167 °F

## General Specifications

|                          |                    |
|--------------------------|--------------------|
| Cable Type               | U/UTP (unshielded) |
| Packaging Type           | Reel               |
| Pairs, quantity          | 4                  |
| Cable Component Type     | Horizontal         |
| Jacket Color             | Black              |
| Product Number           | CS37R              |
| Brand                    | Uniprise®          |
| Conductor Gauge, singles | 23 AWG             |
| Conductor Type, singles  | Solid              |
| Conductors, quantity     | 8                  |
| Separator Type           | Isolator           |

## Mechanical Specifications

Pulling Tension, maximum 11 kg | 25 lb

## Regulatory Compliance/Certifications

| Agency          | Classification                                                                 |
|-----------------|--------------------------------------------------------------------------------|
| RoHS 2011/65/EU | Compliant                                                                      |
| ISO 9001:2008   | Designed, manufactured and/or distributed under this quality management system |



# Product Specifications



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## Electrical Performance

|        |                                                                                                         |
|--------|---------------------------------------------------------------------------------------------------------|
| CS     | CommScope                                                                                               |
| Std    | Refers to the standard value listed under Transmission Standards in the Electrical Specifications above |
| Typ    | Typical                                                                                                 |
| 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)                                                                                        |

| 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            | 2.0  | 2.0  | 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 | 20.0 | 20.0 | 32.0 |
| 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 | 23.0 | 30.0 |
| 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  | 6.0  | 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 | 65.0 | 45.8   | 44.8 | 63.6 | 26.0 | 25.0 | 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 | 64.0 | 44.7 | 43.7 | 61.0 | 41.7   | 40.7 | 59.5 | 26.0 | 25.0 | 35.2 |
| 20           | 8.4  | 8.5  | 8.2  | 57.8 | 54.8 | 72.0 | 49.4 | 46.3 | 63.8 | 55.8   | 52.8 | 69.8 | 47.4  | 44.3 | 61.6 | 42.8 | 41.8 | 59.0 | 39.8   | 38.8 | 57.6 | 26.0 | 25.0 | 35.0 |
| 25           | 9.4  | 9.5  | 9.2  | 56.3 | 53.3 | 70.3 | 46.9 | 43.8 | 61.0 | 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 | 32.0 | 49.0 | 48.4   | 45.4 | 61.7 | 33.1  | 30.0 | 46.8 | 32.9 | 31.9 | 49.0 | 29.9   | 28.9 | 47.6 | 22.5 | 21.5 | 34.1 |
| 100          | 19.7 | 19.8 | 19.0 | 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          | 25.0 | 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 | 25.0 | 24.0 | 41.3 | 22.0   | 21.0 | 39.8 | 19.8 | 18.8 | 30.0 |
| 200          | 28.8 | 29.0 | 27.4 | 42.8 | 39.8 | 55.4 | 14.0 | 10.8 | 28.0 | 40.8   | 37.8 | 53.3 | 12.0  | 8.8  | 26.0 | 22.8 | 21.8 | 38.5 | 19.8   | 18.8 | 37.1 | 19.0 | 18.0 | 29.3 |
| 250          | 32.6 | 32.8 | 30.8 | 41.3 | 38.3 | 54.0 | 8.7  | 5.5  | 23.2 | 39.3   | 36.3 | 51.9 | 6.7   | 3.5  | 21.0 | 20.8 | 19.8 | 36.5 | 17.8   | 16.8 | 35.0 | 18.3 | 17.3 | 28.3 |
| 300          | 36.2 |      | 34.0 | 40.1 |      | 52.2 | 4.0  |      | 18.2 | 38.1   |      | 50.2 | 2.0   |      | 16.2 | 19.3 |      | 34.6 | 16.3   |      | 33.1 | 17.8 |      | 28.2 |
| 350          | 39.5 |      | 37.0 | 39.1 |      | 50.9 | -0.4 |      | 14.0 | 37.1   |      | 48.9 | -2.4  |      | 12.0 | 17.9 |      | 33.0 | 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 |      |      | 6.0  |        |      | 48.8 |       |      | 3.9  |      |      | 28.7 |        |      | 27.3 |      |      | 33.6 |
| 650          |      |      | 49.8 |      |      | 46.4 |      |      | -3.5 |        |      | 44.2 |       |      | -5.6 |      |      | 23.3 |        |      | 21.5 |      |      | 25.3 |