

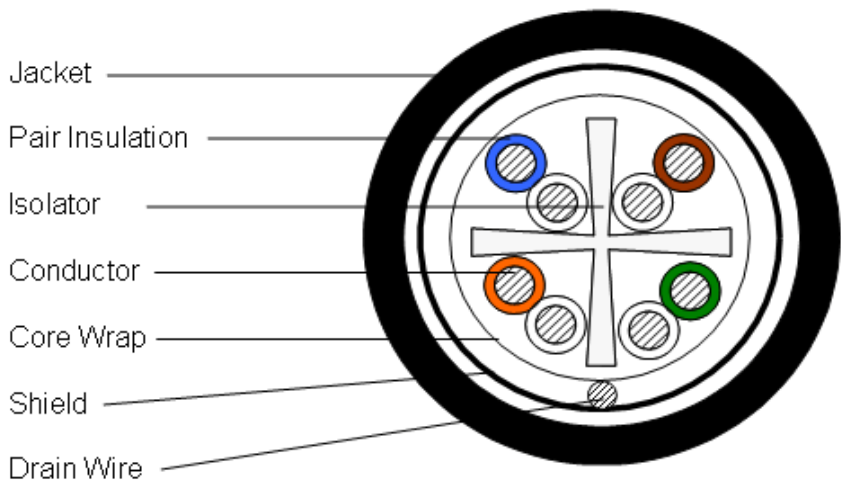


UN884018204/10 | CS34R BLK C6 4/23 F/UTP RL 1KFT  
**CS34R Category 6 F/UTP Cable, non-plenum, black jacket, 4 pair count, 1000 ft (305 m) length, reel**

## 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               |
| Drain Wire Material    | Tinned copper             |
| Insulation Material    | Polyolefin                |
| Separator Material     | Polyolefin                |
| Shield (Tape) Material | Polyester/Aluminum shield |

## Dimensions

|                      |                     |
|----------------------|---------------------|
| Cable Length         | 305 m   1000 ft     |
| Cable Weight         | 34.10 lb/kft        |
| Diameter Over Jacket | 7.315 mm   0.288 in |
| Jacket Thickness     | 0.508 mm   0.020 in |

## Electrical Specifications

|                                  |         |
|----------------------------------|---------|
| ANSI/TIA Category                | 6       |
| Characteristic Impedance         | 100 ohm |
| dc Resistance Unbalance, maximum | 5 %     |

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|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| 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) | 68 %                                                                   |
| Operating Frequency, maximum          | 250 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) |

## General Specifications

|                          |                  |
|--------------------------|------------------|
| Cable Type               | F/UTP (shielded) |
| Packaging Type           | Reel             |
| Pairs, quantity          | 4                |
| Cable Component Type     | Horizontal       |
| Jacket Color             | Black            |
| Product Number           | CS34R            |
| Brand                    | Uniprise®        |
| Conductor Gauge, singles | 23 AWG           |
| Conductor Type, singles  | Solid            |
| Conductors, quantity     | 8                |
| Drain Wire Gauge         | 24 AWG           |
| Drain Wire Type          | Solid            |
| 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 |



## Electrical Performance

|        |                                                                                                         |
|--------|---------------------------------------------------------------------------------------------------------|
| 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   |      |
|--------------|------|------|------|------|------|------|--------|------|-------|------|------|------|--------|------|------|------|
|              | Std  | Typ  | Std  | Typ  | Std  | Typ  | Std    | Typ  | Std   | Typ  | Std  | Typ  | Std    | Typ  | Std  | Typ  |
| 1            | 2.0  | 1.7  | 74.3 | 87.7 | 72.3 | 85.9 | 72.3   | 85.3 | 70.3  | 83.6 | 67.8 | 88.5 | 64.8   | 85.8 | 20.0 | 31.2 |
| 4            | 3.8  | 3.3  | 65.3 | 82.0 | 61.5 | 78.7 | 63.3   | 79.8 | 59.5  | 76.4 | 55.8 | 80.8 | 52.8   | 79.0 | 23.0 | 32.7 |
| 8            | 5.3  | 4.7  | 60.8 | 76.7 | 55.4 | 72.0 | 58.8   | 74.6 | 53.4  | 69.9 | 49.7 | 75.0 | 46.7   | 73.2 | 24.5 | 35.3 |
| 10           | 6.0  | 5.2  | 59.3 | 74.4 | 53.3 | 69.1 | 57.3   | 72.5 | 51.3  | 67.3 | 47.8 | 73.0 | 44.8   | 71.2 | 25.0 | 36.5 |
| 16           | 7.6  | 6.7  | 56.2 | 71.2 | 48.7 | 64.6 | 54.2   | 69.3 | 46.7  | 62.6 | 43.7 | 69.2 | 40.7   | 67.2 | 25.0 | 36.6 |
| 20           | 8.5  | 7.5  | 54.8 | 69.8 | 46.3 | 62.3 | 52.8   | 67.9 | 44.3  | 60.4 | 41.8 | 67.3 | 38.8   | 65.4 | 25.0 | 36.3 |
| 25           | 9.5  | 8.4  | 53.3 | 68.4 | 43.8 | 60.1 | 51.3   | 66.4 | 41.8  | 58.1 | 39.8 | 65.3 | 36.8   | 63.5 | 24.3 | 35.6 |
| 31.25        | 10.7 | 9.3  | 51.9 | 66.9 | 41.2 | 57.6 | 49.9   | 64.9 | 39.2  | 55.6 | 37.9 | 63.4 | 34.9   | 61.6 | 23.6 | 33.9 |
| 62.5         | 15.4 | 13.3 | 47.4 | 62.8 | 32.0 | 49.5 | 45.4   | 60.8 | 30.0  | 47.6 | 31.9 | 57.3 | 28.9   | 55.4 | 21.5 | 31.3 |
| 100          | 19.8 | 16.9 | 44.3 | 59.0 | 24.5 | 42.2 | 42.3   | 57.1 | 22.5  | 40.3 | 27.8 | 53.4 | 24.8   | 51.6 | 20.1 | 27.1 |
| 155          | 25.2 | 21.1 | 41.4 | 55.6 | 16.3 | 34.5 | 39.4   | 53.8 | 14.3  | 32.7 | 24.0 | 49.5 | 21.0   | 47.5 | 18.8 | 23.7 |
| 200          | 29.0 | 24.1 | 39.8 | 52.1 | 10.8 | 28.0 | 37.8   | 50.6 | 8.8   | 26.6 | 21.8 | 47.6 | 18.8   | 45.5 | 18.0 | 21.8 |
| 250          | 32.8 | 27.0 | 38.3 | 51.1 | 5.5  | 24.1 | 36.3   | 49.4 | 3.5   | 22.4 | 19.8 | 45.3 | 16.8   | 43.2 | 17.3 | 20.1 |
| 300          |      | 29.7 |      | 50.1 |      | 20.4 |        | 48.3 |       | 18.6 |      | 43.5 |        | 41.6 |      | 19.1 |
| 350          |      | 32.2 |      | 48.8 |      | 16.7 |        | 47.0 |       | 14.8 |      | 42.3 |        | 40.2 |      | 18.1 |
| 400          |      | 34.5 |      | 47.3 |      | 12.7 |        | 45.6 |       | 11.0 |      | 40.9 |        | 38.9 |      | 17.2 |
| 500          |      | 39.0 |      | 44.0 |      | 5.0  |        | 42.5 |       | 3.5  |      | 39.0 |        | 36.9 |      | 15.9 |
| 550          |      | 41.1 |      | 43.2 |      | 2.1  |        | 41.6 |       | 0.5  |      | 36.2 |        | 33.8 |      | 15.5 |
| 650          |      | 45.0 |      | 43.4 |      | -1.6 |        | 41.5 |       | -3.5 |      | 34.6 |        | 32.3 |      | 15.0 |