## 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**

Regional AvailabilityNorth AmericaPortfolioUniprise®

Product Type Twisted pair cable

General Specifications

**Product Number** CS34R

ANSI/TIA Category 6

Cable Component Type Horizontal

**Cable Type** F/UTP (shielded)

Conductor Type, singlesSolidConductors, quantity8Drain Wire TypeSolidJacket ColorBlack

**Note**All electrical transmission tests include swept frequency measurements

Pairs, quantity 4

Separator Type Isolator

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 Jacket, nominal
 7.315 mm | 0.288 in

 Jacket Thickness
 0.508 mm | 0.02 in

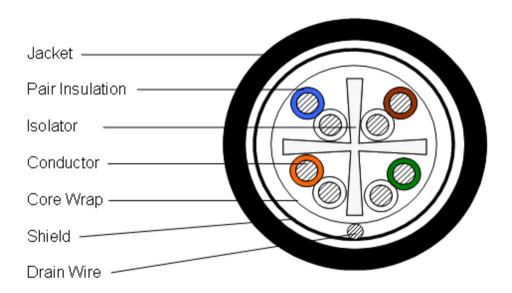
Conductor Gauge, singles 23 AWG

Drain Wire Gauge 26 AWG

### Cross Section Drawing



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### **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** 45 ns

Dielectric Strength, minimum1500 Vac | 2500 VdcMutual Capacitance at Frequency5.6 nF/100 m @ 1 kHz

Nominal Velocity of Propagation (NVP) 68 %

**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



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#### Flectrical 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. 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	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	31.2
4	3.8	3.3	65.3	82	61.5	78.7	63.3	79.8	59.5	76.4	55.8	80.8	52.8	79	23	32.7
8	5.3	4.7	60.8	76.7	55.4	72	58.8	74.6	53.4	69.9	49.7	75	46.7	73.2	24.5	35.3
10	6	5.2	59.3	74.4	53.3	69.1	57.3	72.5	51.3	67.3	47.8	73	44.8	71.2	25	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	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	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	49.5	45.4	60.8	30	47.6	31.9	57.3	28.9	55.4	21.5	31.3
100	19.8	16.9	44.3	59	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	49.5	21	47.5	18.8	23.7
200	29	24.1	39.8	52.1	10.8	28	37.8	50.6	8.8	26.6	21.8	47.6	18.8	45.5	18	21.8
250	32.8	27	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		14.8		42.3		40.2		18.1
400		34.5		47.3		12.7		45.6		11		40.9		38.9		17.2
500		39		44		5		42.5		3.5		39		36.9		15.9
550		41.1		43.2		2.1		41.6		0.5		36.2		33.8		15.5
650		45		43.4		-1.6		41.5		-2.5		34.6		32.3		15

### Material Specifications

**Conductor Material** Bare copper

**Drain Wire Material** Tinned copper

**Insulation Material** Polyolefin

Jacket Material PVC

Separator Material Polyolefin

Shield (Tape) Material Polyester/Aluminum shield

Mechanical Specifications

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



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### **Environmental Specifications**

Installation temperature  $0 \, ^{\circ}\text{C} \, \text{to} +60 \, ^{\circ}\text{C} \, (+32 \, ^{\circ}\text{F to} +140 \, ^{\circ}\text{F})$ Operating Temperature  $-20 \, ^{\circ}\text{C} \, \text{to} +60 \, ^{\circ}\text{C} \, (-4 \, ^{\circ}\text{F to} +140 \, ^{\circ}\text{F})$ 

**Environmental Space** Non-plenum

Flame Test Method CMR | NEC Article 800 | UL 1666 | UL 444

Packaging and Weights

**Cable weight** 50.746 kg/km | 34.1 lb/kft

Packaging Type Reel

Regulatory Compliance/Certifications

Agency Classification

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

