# 884023394/10 | CS31R BLU C6 4/23 U/UTP RIB 305M



CS31 Category 6 U/UTP Cable, non-plenum, blue jacket, 4 pair count, 1000 ft (305 m) length reel-in-box

#### Alternative products available:

884022314/10CS31 Category 6CS31R BLU C6 4/23 U/UTP CPK 1KFTlength Commpak

CS31 Category 6 U/UTP Cable, non-plenum, blue jacket, 4 pair count, 1000 ft (305 m) length Commpak

#### Product Classification

Regional Availability	Asia
Portfolio	NETCONNECT®
Product Type	Twisted pair cable
Ordering Note	Available in Asia Pacific
General Specifications	
Product Number	CS31R
ANSI/TIA Category	6
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	Blue
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Separator Type	Isolator
Supported Application	1000BASE-T   1000BASE-TX   100BASE-TX   10BASE-T   155Mbps ATM   TP-PMD   Token Ring   VoIP
Transmission Standards	ANSI/TIA-568.2-D   CENELEC EN 50288-6-1   IEC 61156-5   ISO/IEC 11801 Class E
Dimensions	

Cable Length

304.8 m | 1000 ft

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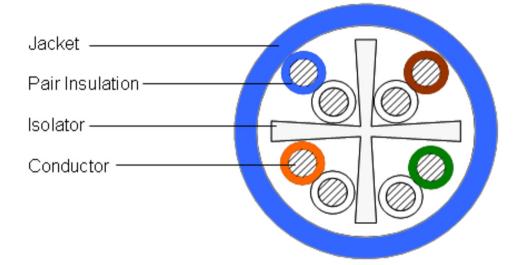
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Diameter Over Insulated Conductor Diameter Over Jacket, nominal Conductor Gauge, singles 0.98 mm | 0.039 in 5.751 mm | 0.226 in 23 AWG

## 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	45 ns
Dielectric Strength, minimum	1500 Vac   2500 Vdc
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	68 %
Operating Frequency, maximum	250 MHz
Operating Voltage, maximum	80 V
Propagation Delay, maximum	536 ns/100m @250MHz
Remote Powering	Fully complies with the recommendations set for

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

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### Electrical Cable Performance

Refers to the standard value listed under Transmission Standards in the Electrical Specifications above							
Near End Crosstalk (dB/100m)							
PSNEXT Power Sum Near End Crosstalk (db/100m)							
ACRF Attenuation to Crosstalk Ratio - Far End (dB/100m)							
RL Return Loss (dB)							
ELTCTL Equal Level Transverse Conversion Transfer Loss (dB/100m)							
N  >: A(							

Freq.			NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL		TCL		ELTCTL	
MHz	cs	STD	cs	STD	cs	STD	cs	STD	cs	STD	cs	STD	cs	STD	cs	STD	cs	STD	cs	STD
1	2	2	75.3	74.3	73.3	72.3	72.3	72.3	70.3	70.3	68	67.8	65	64.8	20	20	40	40	35	35
4	3.8	3.8	66.3	65.3	62.5	61.5	63.3	63.3	59.5	59.5	56	55.8	53	52.8	23	23	40	40	23	23
8	5.3	5.3	61.8	60.8	56.4	55.4	58.8	58.8	53.4	53.4	49.9	49.7	46.9	46.7	24.5	24.5	40	40	16.9	16.9
10	6	6	60.3	59.3	54.3	53.3	57.3	57.3	51.3	51.3	48	47.8	45	44.8	25	25	40	40	15	15
16	7.6	7.6	57.2	56.2	49.7	48.7	54.2	54.2	46.7	46.7	43.9	43.7	40.9	40.7	25	25	38	38	10.9	10.9
20	8.5	8.5	55.8	54.8	47.3	46.3	52.8	52.8	44.3	44.3	42	41.8	39	38.8	25	25	37	37	9	9
25	9.5	9.5	54.3	53.3	44.8	43.8	51.3	51.3	41.8	41.8	40	39.8	37	36.8	24.3	24.3	36	36	7	7
31.25	10.7	10.7	52.9	51.9	42.2	41.2	49.9	49.9	39.2	39.2	38.1	37.9	35.1	34.9	23.6	23.6	35.1	35.1		
62.5	15.4	15.4	48.4	47.4	33	32	45.4	45.4	30	30	32.1	31.9	29.1	28.9	21.5	21.5	32	32		
100	19.8	19.8	45.3	44.3	25.5	24.5	42.3	42.3	22.5	22.5	28	27.8	25	24.8	20.1	20.1	30	30		
155	25.2	25.2	42.4	41.4	17.3	16.3	39.4	39.4	14.3	14.3	24.2	24	21.2	21	18.8	18.8	28.1	28.1		
200	29	29	40.8	39.8	11.8	10.8	37.8	37.8	8.8	8.8	22	21.8	19	18.8	18	18	27	27		
250	32.8	32.8	39.3	38.3	6.5	5.5	36.3	36.3	3.5	3.5	20	19.8	17	16.8	17.3	17.3	26	26		

### Material Specifications

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

### Mechanical Specifications

Minimum Bend Radius Note	4 times the outer cable diameter
Pulling Tension, maximum	11.34 kg   25 lb
Transportation Vibration Standard	ISTA-1A

#### **Environmental Specifications**

Installation temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)

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#### -20 °C to +80 °C (-4 °F to +176 °F) Storage Temperature **Environmental Space** Non-plenum Flame Test Method CMR | NEC Article 800 | UL 1666 | UL 444 Packaging and Weights Cable weight 38.543 kg/km | 25.9 lb/kft CommPak® box Packaging Type Regulatory Compliance/Certifications Agency Classification CHINA-ROHS Below maximum concentration value **REACH-SVHC** Compliant as per SVHC revision on www.commscope.com/ProductCompliance

Compliant

Compliant

ROHS

**UK-ROHS** 

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