

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

Alternative products available:			
884024314/10 CS31R WHT C6 4/23 U/UTP CPK 1KFT	CS31 Category 6 U/UTP Cable, non-plenum, white 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	White		
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		

Diameter Over Insulated Conductor0.98 mm | 0.039 in

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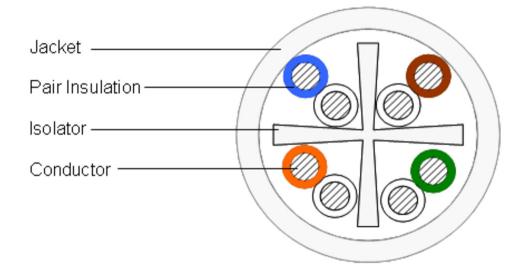
Diameter Over Jacket, nominal

5.751 mm | 0.226 in

Conductor Gauge, singles

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 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					
3/100m)					

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

Compliant



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