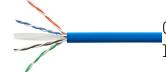
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CS31CM Category 6 U/UTP Cable, non-plenum, blue jacket, 4 pair count, 1000 ft (305 m) length reel-in-box

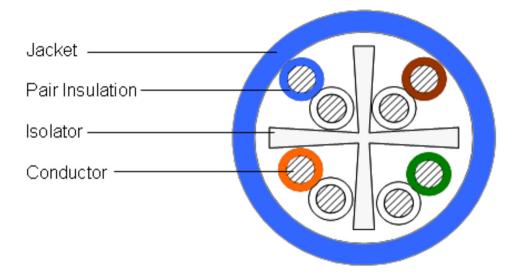
Product Classification **Regional Availability** Asia Portfolio **NETCONNECT® Product Type** Twisted pair cable **Ordering Note** Available in Asia Pacific General Specifications CS31CM **Product Number** 6 **ANSI/TIA Category Cable Component Type** Horizontal Cable Type U/UTP (unshielded) **Conductor Type, singles** Solid 8 Conductors, quantity **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 | VolP **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 Conductor** 0.98 mm | 0.039 in **Diameter Over Jacket, nominal** 5.751 mm | 0.226 in **Conductor Gauge, singles** 23 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, 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) safe delivery of power over LAN cable when installed according to ISO/IEC 1

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

CS	CommScope		
STD	Refers to the standard value listed under Transmission Standards in th	e Electrical Specificat	tions above
ТҮР	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.			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	
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	41.2	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		CM	
Packaging and W	/eights		
Cable weight		38.543 kg/km 25.9 lb/kft	
Packaging Type		CommPak® box	
Regulatory Comp	liance/Certificat	ions	
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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