884017894/10 | CS31Z3 WHT C6 4/23 U/UTP RIB 305M



CS31Z3 Category 6 U/UTP Cable, low smoke zero halogen, white 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 CS31Z3 **Product Number** 6 **ANSI/TIA Category Cable Component Type** Horizontal Cable Type U/UTP (unshielded) **Conductor Type, singles** Solid 8 Conductors, quantity **Jacket Color** White Note All electrical transmission tests include swept frequency measurements Pairs, quantity 4 Separator Type Isolator 1000BASE-T | 1000BASE-TX | 100BASE-TX | 10BASE-T | 155Mbps **Supported Application** 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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Jacket ———	
Pair Insulation ———	
Isolator ———	
Conductor	

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					
crosstalk (dB/100m)					
n Near End Crosstalk (db/100m)					
n to Crosstalk Ratio - Far End (dB/100m)					
s (dB)					
I Transverse Conversion Transfer Loss (dB/100m)					
r					

Freq.		L	NE	хт	A	CR	PSN	IEXT	PS	ACR	A	RF	PS/	CRF	F	IL.	т	CL	ELT	CTL
MHz	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	Low Smoke Zero Halogen (LSZH)
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 Acid Gas Test Method Environmental Space Flame Test Method Smoke Test Method -20 °C to +80 °C (-4 °F to +176 °F) IEC 60754-2 Low Smoke Zero Halogen (LSZH) IEC 60332-3-22 IEC 61034-2

Packaging and Weights

Cable weight

38.692 kg/km | 26 lb/kft

Packaging Type

Reel in 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
UK-ROHS	Compliant



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