884031294/10 | CS31Z3 BLU C6 4/23 U/UTP RIB 305M



CS31Z3 Category 6 U/UTP Cable, low smoke zero halogen, blue jacket, 4 pair count, 1000 ft (305 m) length reel-in-box

Alternative products available:

 884031214/10
 CS31Z3 Category 6 U/UTP Cable,

 CS31Z3 BLU C6 4/23 U/UTP CPK 305M
 1000 ft (305 m) length Commpak

CS31Z3 Category 6 U/UTP Cable, low smoke zero halogen, 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	CS31Z3
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	
	004.0 1 1000.4

Cable Length

304.8 m | 1000 ft

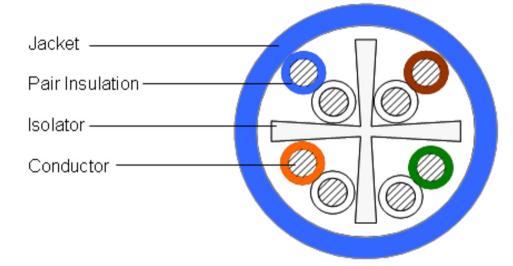
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Diameter Over Insulated Conductor Diameter Over Jacket, nominal Conductor Gauge, singles 0.98 mm | 0.039 in 5.751 mm | 0.226 in 23 AWG

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

CS C	CommScope		
STD R	Refers to the standard value listed under Transmission Standards in the Ele	ctrical Specificatio	ons above
TYP T	Typical Electrical Performance		
IL Ir	nsertion Loss (dB/100m)	NEXT	Near End Crosstalk (dB/100m)
ACR A	Attenuation to Crosstalk Ratio (dB/100m)	PSNEXT	Power Sum Near End Crosstalk (db/100m)
PSACR P	Power Sum Attenuation to Crosstalk Ratio (dB/100m)	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
PSACRF P	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)	RL	Return Loss (dB)
TCL T	Fransverse Conversion Loss (dB/100m)	ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)

Freq.		L	NE	ЭХТ	A	CR	PSN	IEXT	PS	ACR	AC	RF	PS/	CRF	F	aL	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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