



CS31ZB2 Category 6 U/UTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1000 ft (305 m) length reel

Product Classification

Regional Availability	China
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

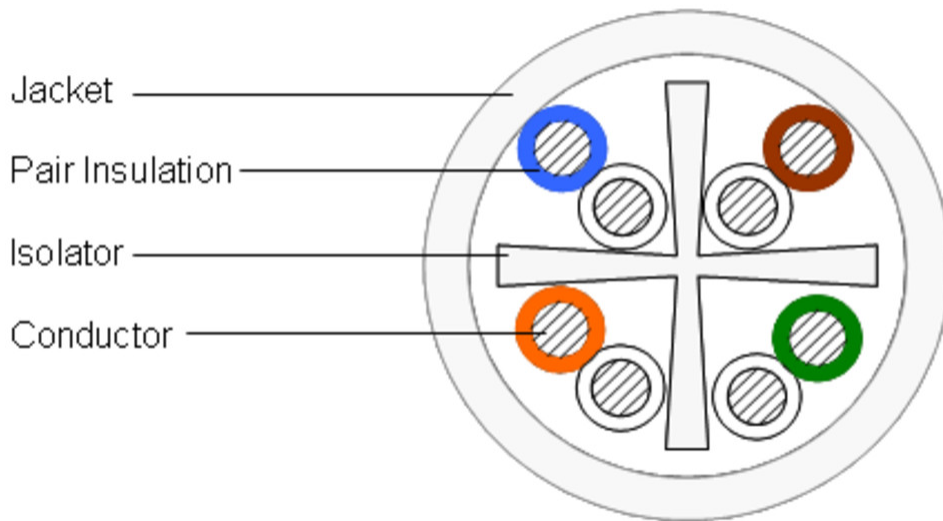
General Specifications

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 Conductor	0.96 mm 0.038 in
Diameter Over Jacket, nominal	6.096 mm 0.24 in
Jacket Thickness	0.551 mm 0.022 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 Voltage, maximum	80 V
Propagation Delay, maximum	536 ns/100m @250MHz
Remote Powering	Fully complies with the recommendations set forth by IEEE 802.3 bt (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

Electrical Cable Performance

CS	CommScope	NEXT	Near End Crosstalk (dB/100m)
STD	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above	PSNEXT	Power Sum Near End Crosstalk (db/100m)
TYP	Typical Electrical Performance	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
IL	Insertion Loss (dB/100m)	RL	Return Loss (dB)
ACR	Attenuation to Crosstalk Ratio (dB/100m)	ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)		
PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)		
TCL	Transverse Conversion Loss (dB/100m)		

Freq. MHz	IL			NEXT			ACR			PSNEXT			PSACR			ACRF			PSACRF			RL		
	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP
1	2	2	1.7	75.3	74.3	85.8	73.3	72.3	84	72.3	72.3	83.8	70.3	70.3	82	68	67.8	78.7	65	64.8	77	20	20	36
4	3.8	3.8	3.5	66.3	65.3	78.3	62.5	61.5	74.9	63.3	63.3	76.2	59.5	59.5	72.7	56	55.8	66.8	53	52.8	65.2	23	23	35.6
8	5.3	5.3	4.9	61.8	60.8	74.9	56.4	55.4	70	58.8	58.8	72.5	53.4	53.4	67.6	49.9	49.7	60.5	46.9	46.7	59	24.5	24.5	33.1
10	6	6	5.5	60.3	59.3	72.7	54.3	53.3	67.2	57.3	57.3	70.5	51.3	51.3	65	48	47.8	58.9	45	44.8	57.2	25	25	33.8
16	7.6	7.6	7	57.2	56.2	70.3	49.7	48.7	63.4	54.2	54.2	68.1	46.7	46.7	61.1	43.9	43.7	54.9	40.9	40.7	53.3	25	25	35.9
20	8.5	8.5	7.8	55.8	54.8	68.8	47.3	46.3	61	52.8	52.8	66.6	44.3	44.3	58.8	42	41.8	52.8	39	38.8	51.3	25	25	35.6
25	9.5	9.5	8.7	54.3	53.3	67.3	44.8	43.8	58.5	51.3	51.3	64.9	41.8	41.8	56.2	40	39.8	50.5	37	36.8	49.1	24.3	24.3	35.7
31.25	10.7	10.7	9.8	52.9	51.9	65.7	42.2	41.2	55.8	49.9	49.9	63.5	39.2	39.2	53.7	38.1	37.9	48.7	35.1	34.9	47.2	23.6	23.6	34
62.5	15.4	15.4	14	48.4	47.4	62.1	33	32	48.2	45.4	45.4	59.7	30	30	45.8	32.1	31.9	41.8	29.1	28.9	40.5	21.5	21.5	28.4
100	19.8	19.8	17.8	45.3	44.3	58.5	25.5	24.5	40.7	42.3	42.3	56.3	22.5	22.5	38.6	28	27.8	38.2	25	24.8	36.6	20.1	20.1	29.7
155	25.2	25.2	22.4	42.4	41.4	57.2	17.3	16.3	34.9	39.4	39.4	54	14.3	14.3	31.6	24.2	24	34.2	21.2	21	32.5	18.8	18.8	27.7
200	29	29	25.5	40.8	39.8	54.3	11.8	10.8	28.8	37.8	37.8	52.1	8.8	8.8	26.6	22	21.8	32	19	18.8	30.4	18	18	27.7
250	32.8	32.8	28.7	39.3	38.3	53	6.5	5.5	24.4	36.3	36.3	50.8	3.5	3.5	22.1	20	19.8	29.8	17	16.8	28.1	17.3	17.3	27
300			31.6			51.5			19.9			49.1			17.5			28.1			26.4			26.9
350			34.3			49.7			15.5			47.6			13.3			26.3			24.5			27.3
400			36.8			48.9			12.1			46.7			10			24.4			22.7			28.1

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	10.206 kg 22.5 lb

Environmental Specifications

Installation temperature	0 °C to +60 °C (+32 °F to +140 °F)
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Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Storage Temperature	-20 °C to +80 °C (-4 °F to +176 °F)
GB 31247 Cable China Class Fire Performance	B2
GB 31247 Cable China Class Smoke Toxicity Rating	t0
GB 31247 Cable China Class Droplets Rating	d0
GB 31247 Cable China Class Acidity/Corrosion Rating	a1
Environmental Space	Low Smoke Zero Halogen (LSZH)

Packaging and Weights

Cable weight	41.669 kg/km 28 lb/kft
Packaging Type	Reel