

CS34ZB Category 6 U/UTP Cable, low smoke zero halogen, orange jacket, 4 pair count, 305 m length CommPak® box

Product Classification

Regional Availability	EMEA
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

General Specifications

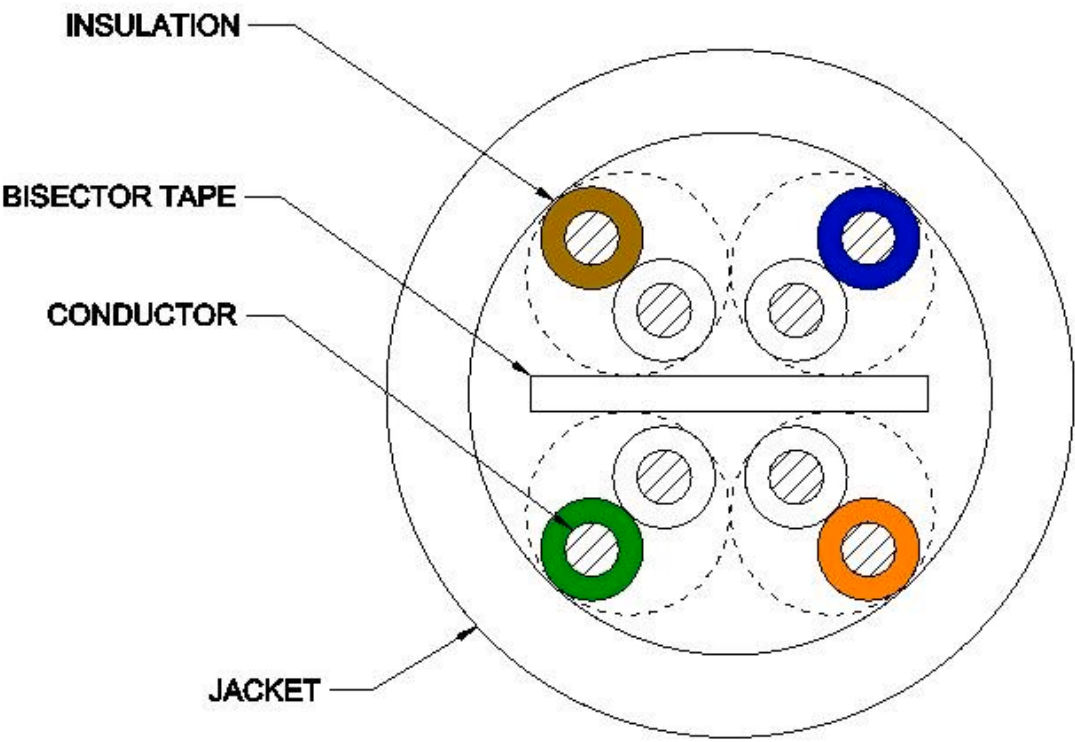
Product Number	CS34ZB
ANSI/TIA Category	6
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	Orange
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Separator Type	Tape separator
Transmission Standards	ANSI/TIA-568.2-D CENELEC EN 50288-6-1 ISO/IEC 11801 Class E

Dimensions

Cable Length	304.8 m 1000 ft
Diameter Over Insulated Conductor	1.041 mm 0.041 in
Diameter Over Jacket, nominal	5.918 mm 0.233 in

Jacket Thickness	0.559 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	7.61 ohms/100 m 2.32 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)	69 %
Operating Frequency, maximum	250 MHz

Operating Voltage, maximum	80 V
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
Segregation Class	b

Electrical Performance

CS CommScope value	IL Insertion Loss (dB/100m)	ACR Attenuation to Crosstalk Ratio (dB/100m)
Std Standard value	RL Return Loss (dB)	ACRF Attenuation to Crosstalk Ratio - Far End (dB/100m)
(listed under the Transmission Standards in the Electrical Specifications above)	NEXT Near End Crosstalk (dB/100m)	PSACR Power Sum Attenuation to Crosstalk Ratio (dB/100m)
Typ Typical value	PSNEXT Power Sum Near End Crosstalk (dB/100m)	PSACRF Insertion Loss (dB/100m)

FREQUENCY	IL TYP	IL CS	IL STD	NEXT TYP	NEXT CS	NEXT STD	ACR TYP	ACR CS	ACR STD	PSNEXT TYP	PSNEXT CS	PSNEXT STD	PSACR TYP	PSACR CS	PSACR STD	ACRF TYP	ACRF CS	ACRF STD	PSACRF TYP	PSACRF CS	PSACRF STD	RL TYP	RL CS	RL STD	TCL TYP	TCL CS	TCL STD	ELTCTL TYP	ELTCL CS	ELTCL STD
1.00 MHz		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
10.00 MHz		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
100.00 MHz		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			
155.00 MHz		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			
16.00 MHz		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
20.00 MHz		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
200.00 MHz		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			
25.00 MHz		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
250.00 MHz		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			
31.25 MHz		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			
4.00 MHz		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
62.50 MHz		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			
8.00 MHz		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

Material Specifications

Conductor Material	Bare copper
Insulation Material	Polyolefin
Jacket Material	Low Smoke Zero Halogen (LSZH)
Separator Material	Polyolefin

Mechanical Specifications

Pulling Tension, maximum	11.34 kg 25 lb
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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)
Acid Gas Test Method	EN 60754-2
EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Low Smoke Zero Halogen (LSZH)
Smoke Test Method	IEC 61034-2

Packaging and Weights

Cable weight	38.097 kg/km 25.6 lb/kft
Packaging Type	CommPak® box

Regulatory Compliance/Certifications

Agency	Classification
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CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

