

CS44ZB Category 6A U/UTP Cable,low smoke zero halogen, white jacket, 4 pair count, 1000 ft (305 m) length, CommPak

Product Classification

Regional Availability	EMEA
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

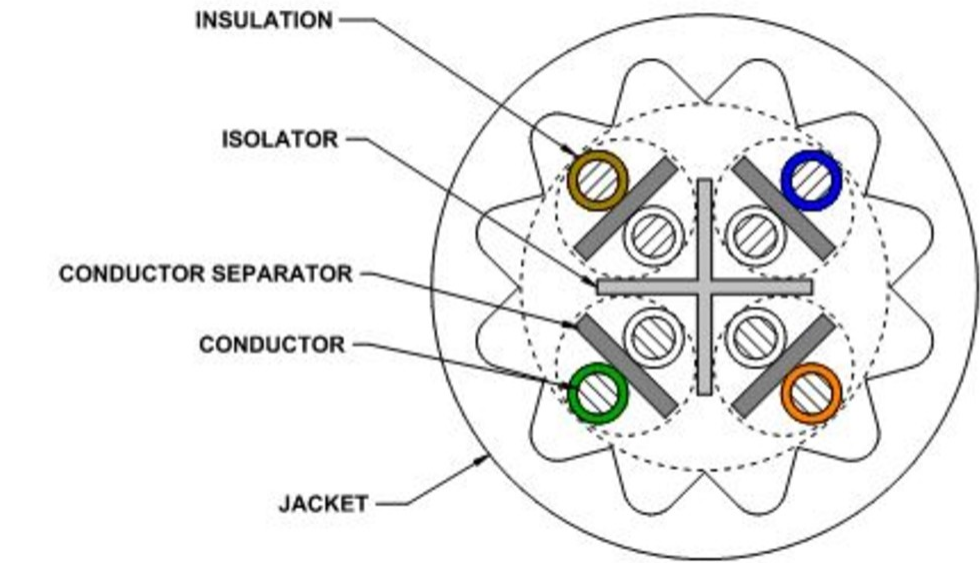
General Specifications

Product Number	CS44ZB
ANSI/TIA Category	6A
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	White
Pairs, quantity	4
Separator Type	Isolator
Transmission Standards	ANSI/TIA-568.2-D ISO/IEC 11801 Class EA

Dimensions

Cable Length	304.8 m 1000 ft
Diameter Over Insulated Conductor	0.864 mm 0.034 in
Diameter Over Jacket, nominal	7.239 mm 0.285 in
Jacket Thickness	1.27 mm 0.05 in
Conductor Gauge, singles	23 AWG

Cross Section Drawing



Electrical Specifications

dc Resistance Unbalance, maximum	4 %
dc Resistance, maximum	7.61 ohms/100 m 2.32 ohms/100 ft
Mutual Capacitance at Frequency	6.0 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	66 %
Operating Frequency, maximum	550 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	c

Electrical Performance

884027214/10 | CS44ZB WHT C6A 4/23 U/UTP

CPK 305M

CS CommScope value	IL Insertion Loss (dB/100m)	ACR Attenuation to Crosstalk Ratio (dB/100m)
Std Sandard 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	ELTCL TYP	ELTCL CS	ELTCL STD
1.00 MHz	1.8		2.1	91		74.3	89.2		72.2	89		72.3	87.3		70.2	84.5		67.8	82.5		64.8	33		20			40		35	
4.00 MHz	3.5		3.8	83.1		65.3	79.6		61.5	81		63.3	77.5		59.5	72.6		55.8	70.5		52.8	34.6		23			40		23	
8.00 MHz	5		5.3	79		60.8	73.9		55.4	76.9		58.8	71.8		53.4	66.6		49.7	64.4		46.7	37.3		24.5			40		16.9	
10.00 MHz	5.6		5.9	76.6		59.3	71		53.4	74.7		57.3	69.1		51.4	64.7		47.8	62.5		44.8	38.4		25			40		15	
16.00 MHz	7.1		7.5	73.6		56.2	66.5		48.8	71.5		54.2	64.3		46.8	60.6		43.7	58.2		40.7	39.6		25			38		10.9	
20.00 MHz	8		8.4	73		54.8	65		46.4	71		52.8	63		44.4	58.6		41.8	56.2		38.8	38.9		25			37		9	
25.00 MHz	9		9.4	70.6		53.3	61.7		44	68.8		51.3	59.8		42	56.5		39.8	54.2		36.8	38.7		24.3			36		7	
31.25 MHz	10.1		10.5	68.7		51.9	58.7		41.4	66.9		49.9	56.8		39.4	54.4		37.9	52.1		34.9	39.3		23.6			35.1			
62.50 MHz	14.4		15	64.6		47.4	50.3		32.4	62.7		43.4	48.3		30.4	48.5		31.9	46		28.9	36.3		21.5			32			
100.00 MHz	18.4		19.1	60.2		44.3	41.9		25.2	58.7		42.3	40.4		23.2	44.5		27.8	42.2		24.8	35.8		20.1			30			
155.00 MHz	23.2		24.1	60.8		41.4	37.7		17.4	58.8		39.4	35.6		15.4	41		24	38.7		21	33.1		18.8			28.1			
200.00 MHz	26.5		27.6	56.8		39.8	30.4		12.2	55		37.8	28.5		10.2	38.5		21.8	36.3		18.8	33		18			27			
250.00 MHz	29.8		31.1	54.8		38.3	25.1		7.3	52.8		36.3	23		5.3	36.5		19.8	34.2		16.8	32.6		17.3			26			
300.00 MHz	32.9		34.3	53.4		37.1	20.5		2.9	51.4		35.1	18.5		0.9	35		18.3	32.5		15.3	32.5		16.8			25.2			
350.00 MHz	35.7		37.2	52.1		36.1	16.4		-1.1	50.1		34.1	14.4		-3.1	34		16.9	31.4		13.9	33.2		16.3			24.6			
400.00 MHz	38.2		40.1	50.4		35.3	12.2		-4.8	48.3		33.3	10.1		-6.8	32		15.8	30		12.8	34.2		15.9			24			
500.00 MHz	43.1		45.3	47.3		33.8	4.2		-11.4	45.5		31.8	2.4		-13.4	29.9		13.8	27.8		10.8	34.6		15.2			23			

Material Specifications

Conductor Material	Bare copper
Insulation Material	Polyolefin
Jacket Material	Low Smoke Zero Halogen (LSZH)
Separator Material	Polyolefin
Separator 2 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 50267-2-3
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	55.955 kg/km 37.6 lb/kft
Packaging Type	CommPak® box

Regulatory Compliance/Certifications

Agency	Classification
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

