



CS44ZB Category 6A F/FTP Cable, low smoke zero halogen, white jacket,
4 pair count, 1640 ft (500 m) length, reel

Product Classification

Regional Availability	EMEA
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

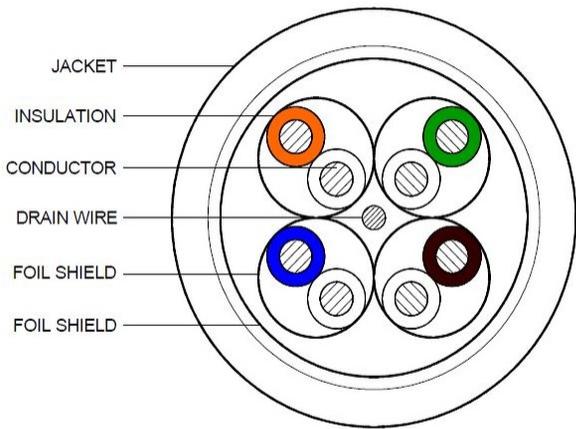
General Specifications

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

Dimensions

Cable Length	500 m 1,640.42 ft
Cable Length Tolerance	±5%
Diameter Over Insulated Conductor	1.168 mm 0.046 in
Diameter Over Jacket, nominal	7.01 mm 0.276 in
Jacket Thickness	0.635 mm 0.025 in
Conductor Gauge, singles	23 AWG

Cross Section Drawing



Electrical Specifications

Coupling Attenuation

Type II

dc Resistance Unbalance, maximum

2 %

dc Resistance, maximum

7.61 ohms/100 m | 2.32 ohms/100 ft

Mutual Capacitance at Frequency

4.2 nF/100 m @ 1 kHz

Nominal Velocity of Propagation (NVP)

80 %

Operating Frequency, maximum

500 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

d

Transfer Impedance

Grade 2

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	ELTCL TYP	ELTCL CS	ELTCL STD
1.00 MHz	1.9	2.1	98.4	75.3	96.5	73.2	96.6		72.3	94.6	70.2	98.9		68	96.6		65	29		20	61.9		40	61.7		35				
4.00 MHz	3.5	3.8	99.9	66.3	96.3	62.5	97.8		63.3	94.2	59.5	98.2		56	95.6		53	30.1		23	55.9		34	56.1		23				
8.00 MHz	4.9	5.3	96.1	61.8	91.2	56.4	93.8		58.8	88.9	53.4	94.6		49.9	92.1		46.9	34.9		24.5	57.2		31	56.6		16.9				
16.00 MHz	5.5	5.9	95.5	60.3	90.1	54.4	93.3		57.3	87.9	51.4	92.2		48	89.8		45	34.8		25	54.1		30	53.7		15				
32.00 MHz	6.9	7.5	93	57.2	86	49.8	90.7		54.2	83.8	46.8	89.1		43.9	86.5		40.9	35.9		25	51.6		28	51.9		10.9				
64.00 MHz	7.8	8.4	90	55.8	82.2	47.4	87.6		52.8	79.8	44.4	88.3		42	85.8		39	35.8		25	52.8		27	52		9				
128.00 MHz	8.8	9.4	88.5	54.3	79.7	45	86.1		51.3	77.3	42	87.1		40	84.7		37	34.6		24.3	51.6		26	51.3		7				
256.00 MHz	9.9	10.5	88.7	52.9	78.8	42.4	86.2		49.9	76.3	39.4	85.5		38.1	83.1		35.1	32.7		23.6	50.7		25.1							
512.00 MHz	14.1	15	86.1	48.4	72	33.4	83.9		45.4	69.7	30.4	79.7		32.1	77.4		29.1	30		21.5	46.5		22							
100.00 MHz	17.9	19.1	79.8	45.3	61.9	26.2	78.4		42.3	60.5	23.2	70.9		28	68.9		25	27		20.1	43.8		20							
155.00 MHz	22.4	24.1	82.1	42.4	59.8	18.4	79.9		39.4	57.6	15.4	69.1		24.2	66.9		21.2	23.4		18.8	40.9		18.1							
200.00 MHz	25.5	27.6	79.6	40.8	54.1	13.2	77.5		37.8	52	10.2	62		22	59.9		19	21		18	39.1		17							
250.00 MHz	28.6	31.1	76.1	39.3	47.5	8.3	74.5		36.3	45.7	5.3	63.9		20	61.4		17	19		17.3	36.5		16							
300.00 MHz	31.4	34.3	70.9	38.1	39.5	3.9	69.6		35.1	38.2	0.9	62.2		18.5	59.9		15.5	18		16.8	35.9									
350.00 MHz	34.1	37.2	73.4	37.1	39.4		72		34.1	37.9		55.6		17.1	53.5		14.1	16.9		16.3	35									
400.00 MHz	36.4	40.1	73.2	36.3	36.8		71.4		33.3	35		54.4		16	52.3		13	16		15.9	34									
500.00 MHz	41.1	45.3	68.8	34.8	27.7		67.1		31.8	26.1		42.9		14	40.7		11	15.2		15.2	33.1									
600.00 MHz	45.3		67.6		22.3		65.7		20.4			43.5		41.1				12.9		31.7										
650.00 MHz	47.1		65.4		18.3		63.5		16.4			38.9		36.6				12.4		31.4										

Material Specifications

Conductor Material

Bare copper

Insulation Material

Polyolefin

Jacket Material

Low Smoke Zero Halogen (LSZH)

Shield (Tape) Material

Polyester/Aluminum shield

Mechanical Specifications

Pulling Tension, maximum

11.34 kg | 25 lb

Environmental Specifications

Installation temperature

0 °C to +50 °C (+32 °F to +122 °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	d1
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	48,514.145 kg/km 32600 lb/kft
Packaging Type	Reel

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

