

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

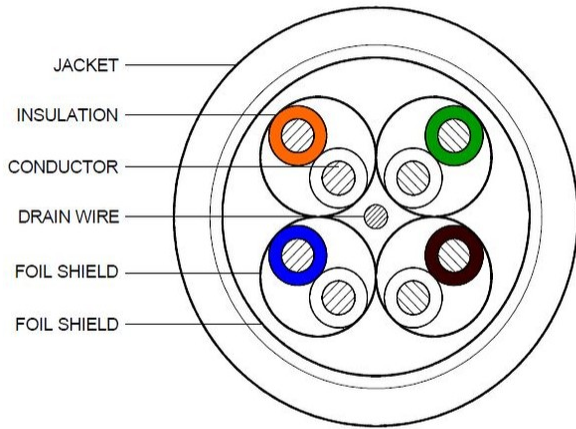
General Specifications

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 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		TCL		ELTCTL	
	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP
1	2.1	1.9	75.3	98.4	73.2	96.5	72.3	96.6	70.2	94.6	68	98.9	65	96.6	20	29	40	61.9	35	61.7
4	3.8	3.5	66.3	99.9	62.5	96.3	63.3	97.8	59.5	94.2	56	98.2	53	95.6	23	30.1	34	55.9	23	56.1
8	5.3	4.9	61.8	96.1	56.4	91.2	58.8	93.8	53.4	88.9	49.9	94.6	46.9	92.1	24.5	34.9	31	57.2	16.9	56.6
10	5.9	5.5	60.3	95.5	54.4	90.1	57.3	93.3	51.4	87.9	48	92.2	45	89.8	25	34.8	30	54.1	15	53.7
16	7.5	6.9	57.2	93	49.8	86	54.2	90.7	46.8	83.8	43.9	89.1	40.9	86.5	25	35.9	28	51.6	10.9	51.9
20	8.4	7.8	55.8	90	47.4	82.2	52.8	87.6	44.4	79.8	42	88.3	39	85.8	25	35.8	27	52.8	9	52
25	9.4	8.8	54.3	88.5	45	79.7	51.3	86.1	42	77.3	40	87.1	37	84.7	24.3	34.6	26	51.6	7	51.3
31.25	10.5	9.9	52.9	88.7	42.4	78.8	49.9	86.2	39.4	76.3	38.1	85.5	35.1	83.1	23.6	32.7	25.1	50.7		
62.5	15	14.1	48.4	86.1	33.4	72	45.4	83.9	30.4	69.7	32.1	79.7	29.1	77.4	21.5	30	22	46.5		
100	19.1	17.9	45.3	79.8	26.2	61.9	42.3	78.4	23.2	60.5	28	70.9	25	68.9	20.1	27	20	43.8		
155	24.1	22.4	42.4	82.1	18.4	59.8	39.4	79.9	15.4	57.6	24.2	69.1	21.2	66.9	18.8	23.4	18.1	40.9		
200	27.6	25.5	40.8	79.6	13.2	54.1	37.8	77.5	10.2	52	22	62	19	59.9	18	21	17	39.1		
250	31.1	28.6	39.3	76.1	8.3	47.5	36.3	74.3	5.3	45.7	20	63.9	17	61.4	17.3	19	16	36.5		
300	34.3	31.4	38.1	70.9	3.9	39.5	35.1	69.6	0.9	38.2	18.5	62.2	15.5	59.9	16.8	18		35.9		
350	37.2	34.1	37.1	73.4		39.4	34.1	72		37.9	17.1	55.6	14.1	53.5	16.3	16.9		35		
400	40.1	36.4	36.3	73.2		36.8	33.3	71.4		35	16	54.4	13	52.3	15.9	16		34		
500	45.3	41.1	34.8	68.8		27.7	31.8	67.1		26.1	14	42.9	11	40.7	15.2	15.2		33.1		
600		45.3		67.6		22.3		65.7		20.4		43.5		41.1		12.9		31.7		
650		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

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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
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

