



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

## Product Classification

<b>Regional Availability</b>	EMEA
<b>Portfolio</b>	NETCONNECT®
<b>Product Type</b>	Twisted pair cable

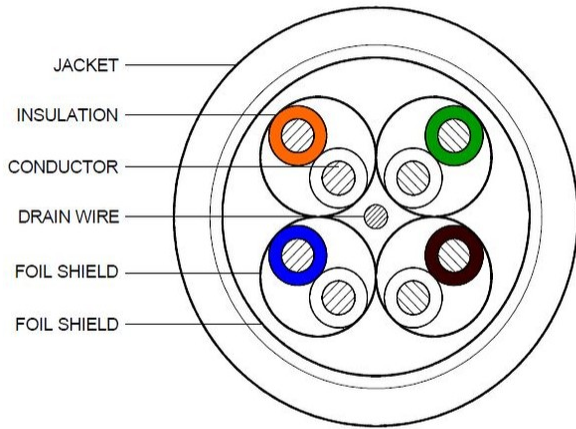
## General Specifications

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

## Dimensions

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

## Cross Section Drawing



## Electrical Specifications

<b>Coupling Attenuation</b>	Type II
<b>dc Resistance Unbalance, maximum</b>	2 %
<b>dc Resistance, maximum</b>	7.61 ohms/100 m   2.32 ohms/100 ft
<b>Mutual Capacitance at Frequency</b>	4.2 nF/100 m @ 1 kHz
<b>Nominal Velocity of Propagation (NVP)</b>	80 %
<b>Operating Frequency, maximum</b>	500 MHz
<b>Operating Voltage, maximum</b>	80 V
<b>Remote Powering</b>	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
<b>Segregation Class</b>	d
<b>Transfer Impedance</b>	Grade 2

## Electrical Cable Performance

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

<b>Conductor Material</b>	Bare copper
<b>Insulation Material</b>	Polyolefin
<b>Jacket Material</b>	Low Smoke Zero Halogen (LSZH)
<b>Shield (Tape) Material</b>	Polyester/Aluminum shield

## Mechanical Specifications

<b>Pulling Tension, maximum</b>	11.34 kg   25 lb
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## Environmental Specifications

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<b>Installation temperature</b>	0 °C to +50 °C (+32 °F to +122 °F)
<b>Operating Temperature</b>	-20 °C to +60 °C (-4 °F to +140 °F)
<b>Acid Gas Test Method</b>	EN 50267-2-3
<b>EN50575 CPR Cable EuroClass Fire Performance</b>	B2ca
<b>EN50575 CPR Cable EuroClass Smoke Rating</b>	s1a
<b>EN50575 CPR Cable EuroClass Droplets Rating</b>	d1
<b>EN50575 CPR Cable EuroClass Acidity Rating</b>	a1
<b>Environmental Space</b>	Low Smoke Zero Halogen (LSZH)
<b>Smoke Test Method</b>	IEC 61034-2

## Packaging and Weights

<b>Cable weight</b>	48,514.145 kg/km   32600 lb/kft
<b>Packaging Type</b>	Reel