884033458/16 | CS44ZB WHT C6A 2x4/23 F/FTP RL 500M



CS44ZB Category 6A F/FTP Cable, low smoke zero halogen, white jacket, 8 pair count, 2×4 pair cables in a duplex style configuration,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	16			
Jacket Color	White			
Pairs, quantity	8			
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 Conductor1.168 mm 0.046 in				
Diameter Over Jacket, nominal7.01 mm 0.276 in				
Jacket Thickness	0.635 mm 0.025 in			
Conductor Gauge, singles	23 AWG			

Cross Section Drawing

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Jacket
Pair Insulation
Drain Wire
Foil Shield
Foil Shield

Electrical Specifications

Coupling Attenuation	Туре 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

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Electrical Cable Performance

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

Freq. MHz	IL STD	NEXT STD	ACR	PSNEXT STD	PSACR STD	ACRF	PSACRF STD	RL	TCL STD	ELTCTL STD
			STD			STD		STD		
1	2.1	75.3	73.2	72.3	70.2	68	65	20	40	35
4	3.8	66.3	62.5	63.3	59.5	56	53	23	34	23
8	5.3	61.8	56.4	58.8	53.4	49.9	46.9	24.5	31	16.9
10	5.9	60.3	54.4	57.3	51.4	48	45	25	30	15
16	7.5	57.2	49.8	54.2	46.8	43.9	40.9	25	28	10.9
20	8.4	55.8	47.4	52.8	44.4	42	39	25	27	9
25	9.4	54.3	45	51.3	42	40	37	24.3	26	7
31.25	10.5	52.9	42.4	49.9	39.4	38.1	35.1	23.6	25.1	
62.5	15	48.4	33.4	45.4	30.4	32.1	29.1	21.5	22	
100	19.1	45.3	26.2	42.3	23.2	28	25	20.1	20	
155	24.1	42.4	18.4	39.4	15.4	24.2	21.2	18.8	18.1	
200	27.6	40.8	13.2	37.8	10.2	22	19	18	17	
250	31.1	39.3	8.3	36.3	5.3	20	17	17.3	16	
300	34.3	38.1	3.9	35.1	0.9	18.5	15.5	16.8		
350	37.2	37.1	-0.1	34.1	-3.1	17.1	14.1	16.3		
400	40.1	36.3	-3.8	33.3	-6.8	16	13	15.9		
500	45.3	34.8	-10.4	31.8	-13.4	14	11	15.2		

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)

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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	s1			
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	97.028 kg/km 65.2 lb/kft			
Packaging Type	Reel			

Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
ISO 9001:2015 Cenelec	Designed, manufactured and/or distributed under this quality management system

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