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CS44Z3A Category 6A F/FTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1640 ft (500 m) length, reel

Product Classification

Regional Availability	Asia	Australia/New Zealand
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

General Specifications

Product Number	CS44Z3
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	499.872 m	1640 ft
Cable Length Tolerance	±5%
Diameter Over Insulated Conductor	1.25 mm	0.049 in
Diameter Over Jacket, nominal	7.01 mm	0.276 in
Conductor Gauge, singles	23 AWG

Cross Section Drawing

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JACKET
INSULATION
CONDUCTOR
DRAIN WIRE
FOIL SHIELD
FOIL SHIELD
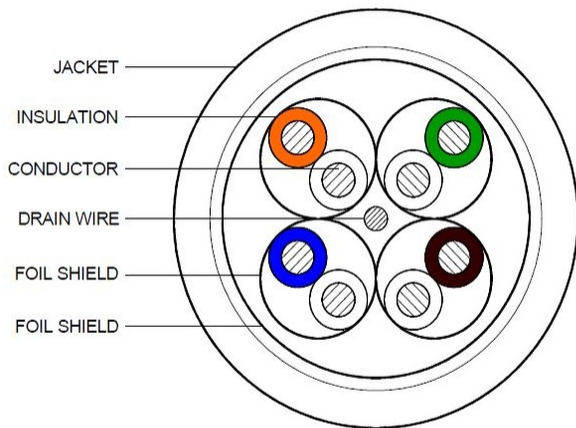
Electrical Specifications

dc Resistance, maximum	9.38 ohms/100 m	2.859 ohms/100 ft
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
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

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Electrical Cable Performance

CS	CommScope	
STD	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above	
TYP	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	NEXT	ACR	PSNEXT	PSACR	ACRF	PSACRF	RL	TCL	ELTCTL
	STD	STD	STD	STD	STD	STD	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

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   IEC 60754-2

Environmental Space   Low Smoke Zero Halogen (LSZH)

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Flame Test Method	IEC 60332-3-22
Smoke Test Method	IEC 61034-2

Packaging and Weights

Packaging Type	Reel

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