884050804/10 | CS41Z1 WHT C6A 4/23 U/UTP RL 305M



CS41Z1, ETL Verified Category 6A U/UTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1000 ft (305 m) length reel

Product Classification

Regional Availability	Asia Australia/New Zealand				
Portfolio	NETCONNECT®				
Product Type	Twisted pair cable				
General Specifications					
Product Number	CS41Z1				
ANSI/TIA Category	6A				
Cable Component Type	Horizontal				
Cable Type	U/UTP (unshielded)				
Conductor Type, singles	Solid				
Conductors, quantity	8				
Jacket Color	White				
Pairs, quantity	4				
Separator Type	Isolator				
Transmission Standards	ANSI/TIA-568.2-D IEC 61156-5				
Dimensions					
Cable Length	304.8 m 1000 ft				

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Diameter Over Insulated Conductor	1.113 mm 0.044 in
Diameter Over Jacket, nominal	7.087 mm 0.279 in
Jacket Thickness	0.508 mm 0.02 in
Conductor Gauge, singles	23 AWG

Cross Section Drawing

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Jacket ———	
Insulation ———	
Isolator ———	
Conductor ———	
Таре	

Electrical Specifications

dc Resistance Unbalance, maximum	4 %
dc Resistance, maximum	8 ohms/100 m 2.438 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac 2500 Vdc
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	67 %
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
Safety Voltage Rating	300 V
Segregation Class	b

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Electrical Cable Performance

CS STD	CommScope Refers to the standard value listed under Transmission Standards in th	e Electrical Specificat	ions 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. IL MHz STD	L		ACR	PSNEXT	PSACR	ACRF	PSACRF	RL
	STD		STD	STD	STD	STD	STD	STD
1	2.1	75.3	73.2	72.3	70.2	68	65	20
4	3.8	66.3	62.5	63.3	59.5	55.9	53	23
8	5.3	61.7	56.4	58.7	53.4	49.9	46.9	24.5
10	5.9	60.3	54.4	57.3	51.4	48	45	25
16	7.5	57.2	49.7	54.2	46.7	43.9	40.9	25
20	8.4	55.8	47.4	52.8	44.4	42	39	25
25	9.4	54.3	44.9	51.3	41.9	40	37	24.3
31.25	10.5	52.9	42.4	49.9	39.4	38.1	35.1	23.6
62.5	15	48.4	33.4	45.4	30.4	32.1	29.1	21.5
100	19.1	45.3	26.2	42.3	23.2	28	25	20.1
155	24.1	42.4	18.3	39.4	15.3	24.2	21.2	18.8
200	27.6	40.8	13.2	37.8	10.2	22	19	18
250	31.1	39.3	8.3	36.3	5.3	20	17	17.3
300	34.3	38.1	3.9	35.1	0.9	18.4	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	15.9	13	15.9
500	45.3	34.8	-10.5	31.8	-13.5	14	11	15.2

Material Specifications

Conductor Material	Bare copper
Insulation Material	Polyolefin
Jacket Material	Low Smoke Zero Halogen (LSZH)
Separator Material	Polyolefin
Tape Material	Poly/Aluminum/Poly
Mechanical Specifications	

Pulling Tension, maximum

11.34 kg | 25 lb

Environmental Specifications

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Installation temperature0 °C to +60 °C (+32 °F to +140 °F)Operating Temperature-20 °C to +60 °C (-4 °F to +140 °F)Environmental SpaceLow Smoke Zero Halogen (LSZH)Flame Test MethodIEC 60332-1Packaging and Weights46.475 kg/km | 31.23 lb/kft

Reel

Regulatory Compliance/Certifications

Packaging Type

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



