

CS41Z1, ETL Verified Category 6A U/UTP Cable, low smoke zero halogen, blue 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 CS41Z1 **Product Number** 6A **ANSI/TIA Category** Cable Component Type Horizontal U/UTP (unshielded) Cable Type Conductor Type, singles Solid 8 Conductors, quantity Blue **Jacket Color** Pairs, quantity 4 Separator Type Isolator Transmission Standards ANSI/TIA-568.2-D | IEC 61156-5 Dimensions **Cable Length** 304.8 m | 1000 ft

Diameter Over Insulated Conductor	1.08 mm   0.043 in
Diameter Over Jacket, nominal	6.985 mm   0.275 in
Jacket Thickness	0.508 mm   0.02 in
Conductor Gauge, singles	24 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 TYP	CommScope Refers to the standard value listed under Transmission Standards in th Typical Electrical Performance	e Electrical Specificat	tions above
IL	Insertion Loss (dB/100m)	NEXT	Near End Crosstalk (dB/100m)
	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
			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 60332-1

Packaging and Weights

Cable weight Packaging Type 44.451 kg/km | 29.87 lb/kft

Reel

#### Regulatory Compliance/Certifications

Agency

Classification

CHINA-ROHS ISO 9001:2015

REACH-SVHC

ROHS



Below maximum concentration value Designed, manufactured and/or distributed under this quality management system Compliant as per SVHC revision on www.commscope.com/ProductCompliance Compliant

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