

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

## Product Classification

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

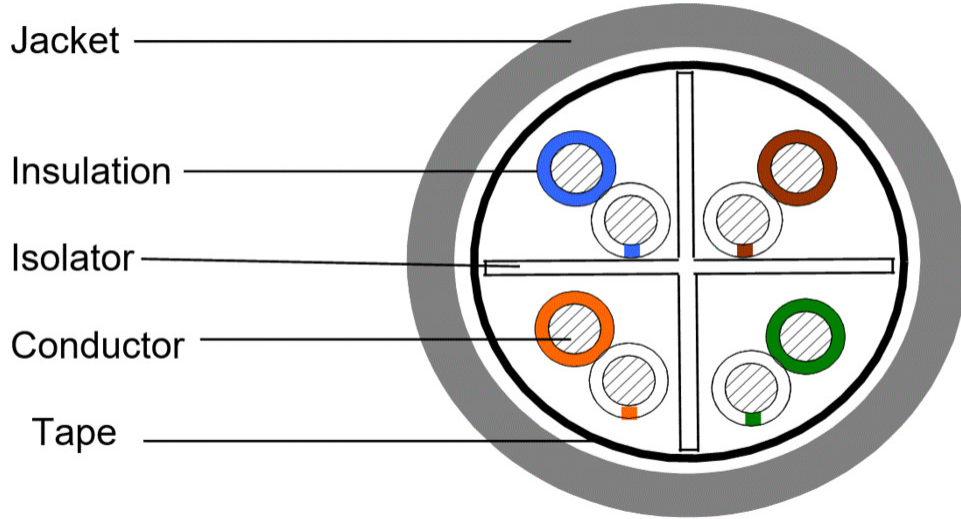
## General Specifications

<b>Product Number</b>	CS41Z1
<b>ANSI/TIA Category</b>	6A
<b>Cable Component Type</b>	Horizontal
<b>Cable Type</b>	U/UTP (unshielded)
<b>Conductor Type, singles</b>	Solid
<b>Conductors, quantity</b>	8
<b>Jacket Color</b>	Gray
<b>Pairs, quantity</b>	4
<b>Separator Type</b>	Isolator
<b>Transmission Standards</b>	ANSI/TIA-568.2-D   IEC 61156-5

## Dimensions

<b>Cable Length</b>	304.8 m   1000 ft
<b>Diameter Over Insulated Conductor</b>	1.08 mm   0.043 in
<b>Diameter Over Jacket, nominal</b>	6.985 mm   0.275 in
<b>Jacket Thickness</b>	0.508 mm   0.02 in
<b>Conductor Gauge, singles</b>	24 AWG

## Cross Section Drawing



## Electrical Specifications

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

## Electrical Cable Performance

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

Freq. MHz	IL	NEXT	ACR	PSNEXT	PSACR	ACRF	PSACRF	RL
	STD	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

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

## Mechanical Specifications

**Pulling Tension, maximum** 11.34 kg | 25 lb

## Environmental Specifications

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<b>Installation temperature</b>	0 °C to +60 °C (+32 °F to +140 °F)
<b>Operating Temperature</b>	-20 °C to +60 °C (-4 °F to +140 °F)
<b>Environmental Space</b>	Low Smoke Zero Halogen (LSZH)
<b>Flame Test Method</b>	IEC 60332-1

## Packaging and Weights

<b>Cable weight</b>	44.451 kg/km   29.87 lb/kft
<b>Packaging Type</b>	Reel

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant

