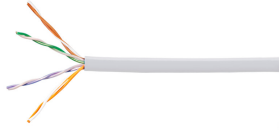


Category 5e U/UTP Cable, LSZH, white jacket, 4 pair count, 1000 ft (305 m) length, CommPak



## Product Classification

<b>Regional Availability</b>	Asia
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Twisted pair cable
<b>Ordering Note</b>	Available in Asia Pacific

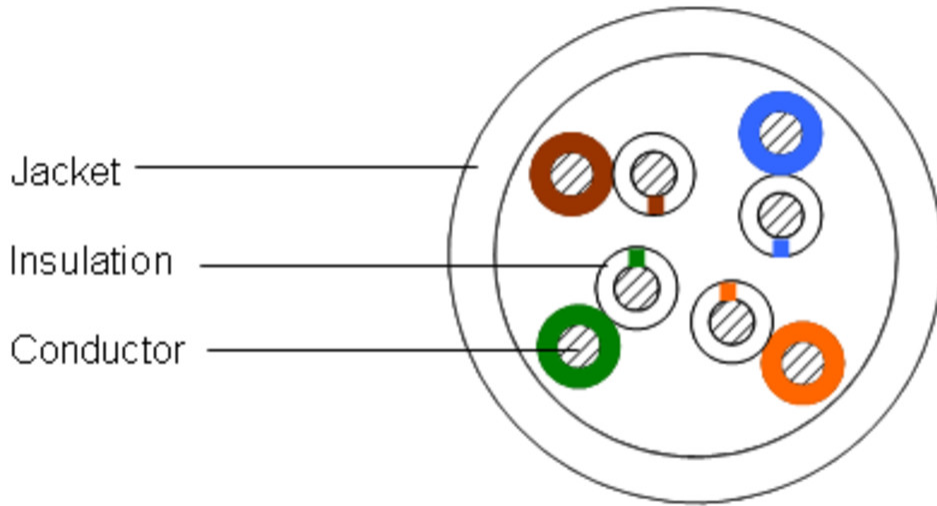
## General Specifications

<b>Product Number</b>	CS24Z1
<b>ANSI/TIA Category</b>	5e
<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>	White
<b>Note</b>	All electrical transmission tests include swept frequency measurements
<b>Pairs, quantity</b>	4
<b>Transmission Standards</b>	ANSI/TIA-568.2-D   CENELEC EN 50288-3-1   ISO/IEC 11801 Class D

## Dimensions

<b>Cable Length</b>	304.8 m   1000 ft
<b>Diameter Over Jacket, nominal</b>	5.004 mm   0.197 in
<b>Conductor Gauge, singles</b>	24 AWG

## Cross Section Drawing



## Electrical Specifications

<b>Characteristic Impedance</b>	100 ohm
<b>dc Resistance Unbalance, maximum</b>	5 %
<b>dc Resistance, maximum</b>	9.38 ohms/100 m   2.859 ohms/100 ft
<b>Dielectric Strength, minimum</b>	1500 Vac   2500 Vdc
<b>Mutual Capacitance at Frequency</b>	5.6 nF/100 m @ 1 kHz
<b>Operating Frequency, maximum</b>	100 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

## 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	65.3	63.3	62.3	60.3	63.8	60.8	20
4	4.1	56.3	52.2	53.3	49.2	51.8	48.8	23
8	5.8	51.8	46	48.8	43	45.7	42.7	24.5
10	6.5	50.3	43.8	47.3	40.8	43.8	40.8	25
16	8.2	47.2	39	44.2	36	39.7	36.7	25
20	9.3	45.8	36.5	42.8	33.5	37.8	34.8	25
25	10.4	44.3	33.9	41.3	30.9	35.8	32.8	24.3
31.25	11.7	42.9	31.2	39.9	28.2	33.9	30.9	23.6
62.5	17	38.4	21.4	35.4	18.4	27.9	24.9	21.5
100	22	35.3	13.3	32.3	10.3	23.8	20.8	20.1

## Material Specifications

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

## Mechanical Specifications

<b>Pulling Tension, maximum</b>	11.34 kg   25 lb
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## Environmental Specifications

<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>Acid Gas Test Method</b>	IEC 60754-2
<b>Environmental Space</b>	Low Smoke Zero Halogen (LSZH)
<b>Flame Test Method</b>	IEC 60332-1
<b>Smoke Test Method</b>	IEC 61034-2

## Packaging and Weights

**Packaging Type**

CommPak® box

Regulatory Compliance/Certifications

**Agency**

**Classification**

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 [www.commscope.com/ProductCompliance](http://www.commscope.com/ProductCompliance)

ROHS

Compliant

UK-ROHS

Compliant

