

Category 6 U/UTP Cable, low smoke zero halogen, orange jacket, 4 pair count, 1000 ft (305 m) length Commpak

## Product Classification

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

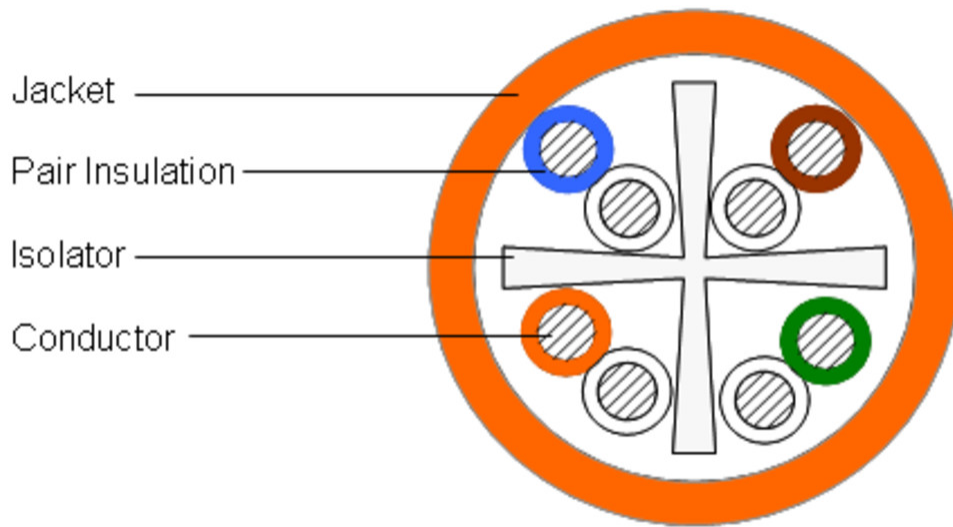
## General Specifications

<b>Product Number</b>	CS37Z3
<b>ANSI/TIA Category</b>	6
<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>	Orange
<b>Note</b>	All electrical transmission tests include swept frequency measurements   Testing Frequency up to 600 MHz
<b>Pairs, quantity</b>	4
<b>Separator Type</b>	Isolator
<b>Transmission Standards</b>	ANSI/TIA-568.2-D   CENELEC EN 50288-6-1   ISO/IEC 11801 Class E

## Dimensions

<b>Cable Length</b>	304.8 m   1000 ft
<b>Diameter Over Insulated Conductor</b>	1.039 mm   0.041 in
<b>Diameter Over Jacket, nominal</b>	5.842 mm   0.23 in
<b>Jacket Thickness</b>	0.559 mm   0.022 in
<b>Conductor Gauge, singles</b>	23 AWG

## Cross Section Drawing



## Electrical Specifications

<b>Characteristic Impedance</b>	100 ohm
<b>dc Resistance Unbalance, maximum</b>	5 %
<b>dc Resistance, maximum</b>	7.61 ohms/100 m   2.32 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>	68 %
<b>Operating Frequency, maximum</b>	400 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>NEXT</b>	Near End Crosstalk (dB/100m)
<b>STD</b>	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above	<b>PSNEXT</b>	Power Sum Near End Crosstalk (db/100m)
<b>TYP</b>	Typical Electrical Performance	<b>ACRF</b>	Attenuation to Crosstalk Ratio - Far End (dB/100m)
<b>IL</b>	Insertion Loss (dB/100m)	<b>RL</b>	Return Loss (dB)
<b>ACR</b>	Attenuation to Crosstalk Ratio (dB/100m)	<b>ELTCTL</b>	Equal Level Transverse Conversion Transfer Loss (dB/100m)
<b>PSACR</b>	Power Sum Attenuation to Crosstalk Ratio (dB/100m)		
<b>PSACRF</b>	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)		
<b>TCL</b>	Transverse Conversion Loss (dB/100m)		

Freq. MHz	IL			NEXT			ACR			PSNEXT			PSACR			ACRF			PSACRF			RL			TCL			ELTCTL		
	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP	CS	STD	TYP
1	2	2	1.7	77.3	74.3	88.9	75.3	72.3	87.2	75.3	72.3	87.1	73.3	70.3	85.4	68.8	67.8	83.9	65.8	64.8	82.5	20	20	33.5	40	40	65.4	35	35	65.2
4	3.8	3.8	3.5	68.3	65.3	81.2	64.5	61.5	77.7	66.3	63.3	79.1	62.5	59.5	75.6	56.8	55.8	72.2	53.8	52.8	70.9	23.6	23	34.2	40	40	60	23	23	60
8	5.3	5.3	5	63.8	60.8	76.3	58.5	55.4	71.3	61.8	58.8	74.3	56.5	53.4	69.3	50.7	49.7	66.3	47.7	46.7	64.9	25.4	24.5	33.5	40	40	56.2	16.9	16.9	55.9
10	5.9	6	5.6	62.3	59.3	74.6	56.4	53.3	69	60.3	57.3	72.7	54.4	51.3	67.1	48.8	47.8	64.3	45.8	44.8	63	26	25	33.1	40	40	54.7	15	15	54.4
16	7.5	7.6	7.1	59.2	56.2	71.8	51.7	48.7	64.7	57.2	54.2	69.7	49.7	46.7	62.7	44.7	43.7	60.2	41.7	40.7	58.8	26	25	34.2	38	38	50.5	10.9	10.9	50.3
20	8.4	8.5	7.9	57.8	54.8	70.2	49.4	46.3	62.3	55.8	52.8	68.2	47.4	44.3	60.3	42.8	41.8	58.2	39.8	38.8	56.8	26	25	34.9	37	37	50	9	9	50.1
25	9.4	9.5	8.9	56.3	53.3	68.4	46.9	43.8	59.5	54.3	51.3	66.4	44.9	41.8	57.5	40.8	39.8	56.3	37.8	36.8	54.9	25.3	24.3	35	36	36	48.7	7	7	48.6
31.25	10.6	10.7	10	54.9	51.9	67	44.3	41.2	57	52.9	49.9	65	42.3	39.2	55	38.9	37.9	54.4	35.9	34.9	53	24.6	23.6	34	35.1	35.1	48.7			
62.5	15.3	15.4	14.2	50.4	47.4	62.1	35.1	32	47.8	48.4	45.4	60.2	33.1	30	46	32.9	31.9	48.7	29.9	28.9	47.1	22.5	21.5	31.3	32	32	49.7			
100	19.7	19.8	18.2	47.3	44.3	58.6	27.6	24.5	40.4	45.3	42.3	56.7	25.6	22.5	38.5	28.8	27.8	44.6	25.8	24.8	43.2	21.1	20.1	28.6	30	30	47.6			
155	25	25.2	22.9	44.4	41.4	55.3	19.5	16.3	32.4	42.4	39.4	53.5	17.5	14.3	30.6	25	24	40.7	22	21	39.3	19.8	18.8	26.3	28.1	28.1	45.2			
200	28.8	29	26.2	42.8	39.8	53.5	14	10.8	27.3	40.8	37.8	51.7	12	8.8	25.5	22.8	21.8	38.1	19.8	18.8	36.8	19	18	25.3	27	27	43.3			
250	32.6	32.8	29.5	41.3	38.3	52.3	8.7	5.5	22.8	39.3	36.3	50.4	6.7	3.5	20.8	20.8	19.8	35.8	17.8	16.8	34.5	18.3	17.3	23.5	26	26	42.2			
300	36.2		32.5	40.1		51	4		18.4	38.1		49.1	2		16.6	19.3		34.3	16.3		32.9	17.8		22.1			40.9			
350	39.5		35.3	39.1		50	-0.4		14.7	37.1		48.1	-2.4		12.8	17.9		33.2	14.9		31.8	17.3		21.2			39.8			
400	42.7		38	38.3		48.8	-4.4		10.8	36.3		47	-6.4		9	16.8		31.8	13.8		30.6	16.9		20.5			38.2			
500			43			47			4			45.2			2.2			29.9			28.4			18.7			36.8			
550			45.3			46.4			1.1			44.5			-0.8			28.8			27.4			18.6			36.5			
650			49.7			43.5			-6.2			41.9			-7.9			26.6			25.1			17.6						

## 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

## Mechanical Specifications

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

## 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 60332-3-22
<b>Smoke Test Method</b>	IEC 61034-2

## Packaging and Weights

<b>Cable weight</b>	37.249 kg/km   25.03 lb/kft
<b>Packaging Type</b>	CommPak® box

## 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
UK-ROHS	Compliant

