

CS44Z3 ETL Verified Category 6A F/UTP Cable, low smoke zero halogen, orange jacket, 4 pair count, 1640 ft (500 m) length, reel

## Product Classification

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

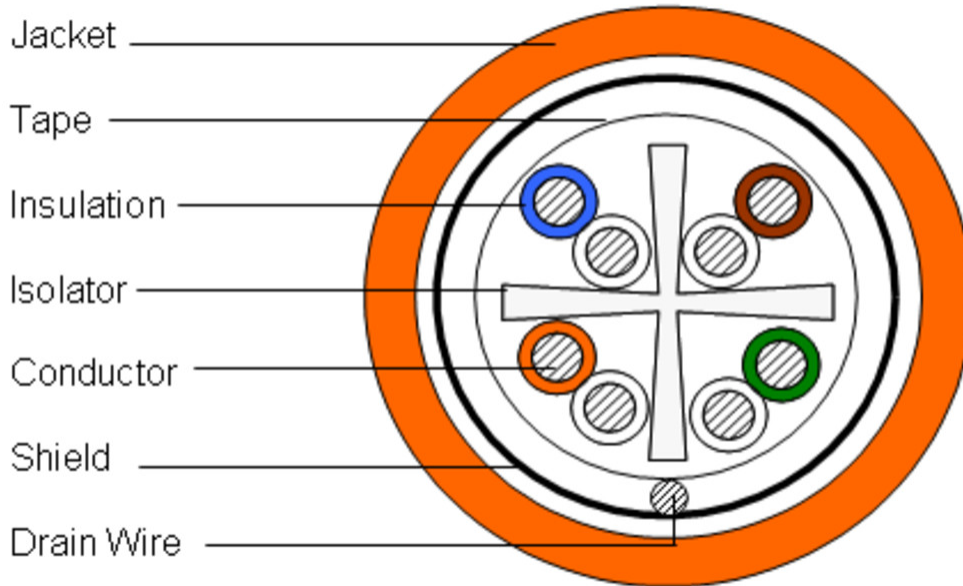
## General Specifications

<b>Product Number</b>	CS44Z3
<b>ANSI/TIA Category</b>	6A
<b>Cable Component Type</b>	Horizontal
<b>Cable Type</b>	F/UTP (shielded)
<b>Conductor Type, singles</b>	Solid
<b>Conductors, quantity</b>	8
<b>Drain Wire Type</b>	Solid
<b>Jacket Color</b>	Orange
<b>Pairs, quantity</b>	4
<b>Separator Type</b>	Isolator
<b>Transmission Standards</b>	ANSI/TIA-568.2-D

## Dimensions

<b>Cable Length</b>	500 m   1,640.42 ft
<b>Diameter Over Jacket, nominal</b>	7.518 mm   0.296 in
<b>Jacket Thickness</b>	0.508 mm   0.02 in
<b>Conductor Gauge, singles</b>	23 AWG
<b>Drain Wire Gauge</b>	26 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>Mutual Capacitance at Frequency</b>	5.6 nF/100 m @ 1 kHz
<b>Nominal Velocity of Propagation (NVP)</b>	69 %
<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>Segregation Class</b>	c

## 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	
	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP
1	2.1	1.7	74.3	90.8	72.2	89.1	72.3	89.1	70.2	87.4	67.8	91.1	64.8	89.1	20	33.8
4	3.8	3.3	65.3	81.1	61.5	77.8	63.3	79.3	59.5	76	55.8	79.7	52.8	77.8	23	34.6
8	5.3	4.6	60.8	76.1	55.4	71.5	58.8	74.3	53.4	69.7	49.7	73.9	46.7	71.9	24.5	36.6
10	5.9	5.2	59.3	75	53.4	69.8	57.3	73	51.4	67.9	47.8	71.9	44.8	70	25	37.2
16	7.5	6.6	56.2	71	48.8	64.5	54.2	69.1	46.8	62.5	43.7	67.7	40.7	65.7	25	37.3
20	8.4	7.4	54.8	69.6	46.4	62.3	52.8	67.8	44.4	60.4	41.8	65.9	38.8	63.8	25	36
25	9.4	8.2	53.3	68.1	44	59.8	51.3	66.2	42	57.9	39.8	63.8	36.8	61.8	24.3	35
31.25	10.5	9.2	51.9	65.8	41.4	56.6	49.9	64.1	39.4	54.9	37.9	61.9	34.9	59.7	23.6	34
62.5	15	13	47.4	60.9	32.4	47.9	45.4	59.2	30.4	46.2	31.9	55.1	28.9	53	21.5	30.4
100	19.1	16.5	44.3	58.3	25.2	41.8	42.3	56.5	23.2	40	27.8	51.8	24.8	49.9	20.1	27.8
155	24.1	20.7	41.4	55.7	17.4	35	39.4	53.7	15.4	33.1	24	48.3	21	46.1	18.8	24.2
200	27.6	23.6	39.8	53.3	12.2	29.7	37.8	51.5	10.2	27.9	21.8	45.6	18.8	43.6	18	22.7
250	31.1	26.4	38.3	52	7.3	25.6	36.3	50	5.3	23.6	19.8	44.7	16.8	42.6	17.3	21.2
300	34.3	29.1	37.1	50	2.9	21	35.1	48	0.9	18.9	18.3	42.2	15.3	40.2	16.8	20
350	37.2	31.5	36.1	48.3	-1.1	16.8	34.1	46.5	-3.1	15	16.9	39.8	13.9	37.8	16.3	19.1
400	40.1	33.9	35.3	47.3	-4.8	13.4	33.3	45.5	-6.8	11.6	15.8	39.5	12.8	37.2	15.9	18
500	45.3	38.1	33.8	45.9	-11.4	7.8	31.8	44	-13.4	5.9	13.8	36.5	10.8	34.2	15.2	16.6

## Material Specifications

<b>Conductor Material</b>	Bare copper
<b>Drain Wire Material</b>	Tinned copper
<b>Insulation Material</b>	Polyolefin
<b>Jacket Material</b>	Low Smoke Zero Halogen (LSZH)
<b>Separator Material</b>	Polyolefin
<b>Shield (Tape) Material</b>	Polyester/Aluminum shield

## 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>EN50575 CPR Cable EuroClass Fire Performance</b>	Dca
<b>EN50575 CPR Cable EuroClass Smoke Rating</b>	s2
<b>EN50575 CPR Cable EuroClass Droplets Rating</b>	d2
<b>EN50575 CPR Cable EuroClass Acidity Rating</b>	a1
<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>	52.309 kg/km   35.15 lb/kft
<b>Packaging Type</b>	Reel

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

