

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

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

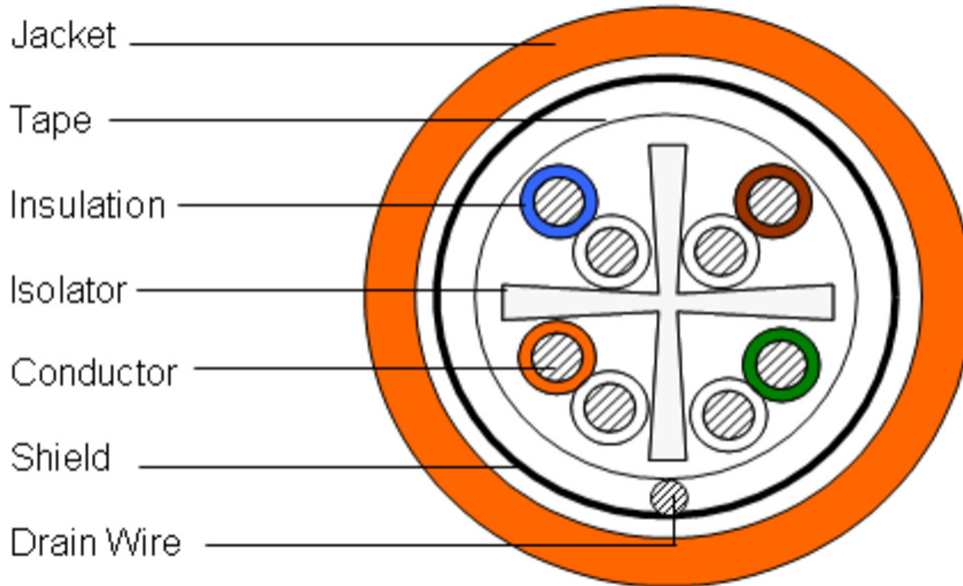
General Specifications

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

Dimensions

Cable Length	500 m 1,640.42 ft
Diameter Over Jacket, nominal	7.518 mm 0.296 in
Jacket Thickness	0.508 mm 0.02 in
Conductor Gauge, singles	23 AWG
Drain Wire Gauge	26 AWG

Cross Section Drawing



Electrical Specifications

dc Resistance Unbalance, maximum	4 %
dc Resistance, maximum	8 ohms/100 m 2.438 ohms/100 ft
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	69 %
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
Segregation Class	c

Electrical Cable Performance

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

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

Mechanical Specifications

Pulling Tension, maximum 11.34 kg | 25 lb

Environmental Specifications

Installation temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Acid Gas Test Method	IEC 60754-2
EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s2
EN50575 CPR Cable EuroClass Droplets Rating	d2
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Low Smoke Zero Halogen (LSZH)
Flame Test Method	IEC 60332-3-22
Smoke Test Method	IEC 61034-2

Packaging and Weights

Cable weight	52.309 kg/km 35.15 lb/kft
Packaging Type	Reel

Regulatory Compliance/Certifications

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

