

CS44ZC Category 6A U/UTP Cable, low smoke zero halogen, gray jacket, 4 pair count, 1000 ft (305 m) length, CommPak® box

#### **Product Classification**

Regional Availability EMEA

Portfolio NETCONNECT®

Product Type Twisted pair cable

General Specifications

**Product Number** CS44ZC

ANSI/TIA Category 6A

Cable Component Type Horizontal

Cable Type U/UTP (unshielded)

Conductor Type, singles

Conductors, quantity

Backet Color

Gray

Pairs, quantity

4

Separator Type Isolator

Transmission Standards ANSI/TIA-568.2-D | ISO/IEC 11801 Class EA

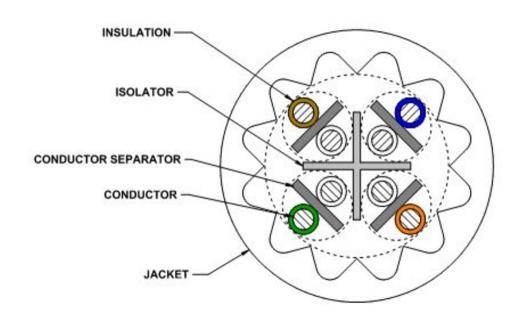
**Dimensions** 

Cable Length304.8 m | 1000 ftDiameter Over Insulated Conductor0.864 mm | 0.034 inDiameter Over Jacket, nominal7.239 mm | 0.285 inJacket Thickness1.27 mm | 0.05 in

Conductor Gauge, singles 23 AWG

Cross Section Drawing





#### **Electrical Specifications**

dc Resistance Unbalance, maximum 4 %

dc Resistance, maximum 7.61 ohms/100 m | 2.32 ohms/100 ft

Mutual Capacitance at Frequency 6.0 nF/100 m @ 1 kHz

Nominal Velocity of Propagation (NVP) 66 %

**Operating Frequency, maximum** 550 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

С

Segregation Class



#### Electrical Cable Performance

**CS** CommScope

STD Refers to the standard value listed under Transmission Standards in the Electrical Specifications above

TYP Typical Electrical Performance

IL Insertion Loss (dB/100m) NEXT Near End Crosstalk (dB/100m)

 ACR
 Attenuation to Crosstalk Ratio (dB/100m)
 PSNEXT
 Power Sum Near End Crosstalk (db/100m)

 PSACR
 Power Sum Attenuation to Crosstalk Ratio (dB/100m)
 ACRF
 Attenuation to Crosstalk Ratio - Far End (dB/100m)

PSACRF Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m) RL Return Loss (dB)

TCL Transverse Conversion Loss (dB/100m) ELTCTL Equal Level Transverse Conversion Transfer Loss (dB/100m)

Freq. MHz	IL		NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL		TCL	ELTCTL
	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	TYP	STD	STD
1	2.1	1.8	74.3	91	72.2	89.2	72.3	89	70.2	87.3	67.8	84.5	64.8	82.5	20	33	40	35
4	3.8	3.5	65.3	83.1	61.5	79.6	63.3	81	59.5	77.5	55.8	72.6	52.8	70.5	23	34.6	40	23
8	5.3	5	60.8	79	55.4	73.9	58.8	76.9	53.4	71.8	49.7	66.6	46.7	64.4	24.5	37.3	40	16.9
10	5.9	5.6	59.3	76.6	53.4	71	57.3	74.7	51.4	69.1	47.8	64.7	44.8	62.5	25	38.4	40	15
16	7.5	7.1	56.2	73.6	48.8	66.5	54.2	71.5	46.8	64.3	43.7	60.6	40.7	58.2	25	39.6	38	10.9
20	8.4	8	54.8	73	46.4	65	52.8	71	44.4	63	41.8	58.6	38.8	56.2	25	38.9	37	9
25	9.4	9	53.3	70.6	44	61.7	51.3	68.8	42	59.8	39.8	56.5	36.8	54.2	24.3	38.7	36	7
31.25	10.5	10.1	51.9	68.7	41.4	58.7	49.9	66.9	39.4	56.8	37.9	54.4	34.9	52.1	23.6	39.3	35.1	
62.5	15	14.4	47.4	64.6	32.4	50.3	45.4	62.7	30.4	48.3	31.9	48.5	28.9	46	21.5	36.3	32	
100	19.1	18.4	44.3	60.2	25.2	41.9	42.3	58.7	23.2	40.4	27.8	44.5	24.8	42.2	20.1	35.8	30	
155	24.1	23.2	41.4	60.8	17.4	37.7	39.4	58.8	15.4	35.6	24	41	21	38.7	18.8	33.1	28.1	
200	27.6	26.5	39.8	56.8	12.2	30.4	37.8	55	10.2	28.5	21.8	38.5	18.8	36.3	18	33	27	
250	31.1	29.8	38.3	54.8	7.3	25.1	36.3	52.8	5.3	23	19.8	36.5	16.8	34.2	17.3	32.6	26	
300	34.3	32.9	37.1	53.4	2.9	20.5	35.1	51.4	0.9	18.5	18.3	35	15.3	32.5	16.8	32.5	25.2	
350	37.2	35.7	36.1	52.1	-1.1	16.4	34.1	50.1	-3.1	14.4	16.9	34	13.9	31.4	16.3	33.2	24.6	
400	40.1	38.2	35.3	50.4	-4.8	12.2	33.3	48.3	-6.8	10.1	15.8	32	12.8	30	15.9	34.2	24	
500	45.3	43.1	33.8	47.3	-11.4	4.2	31.8	45.5	-13.4	2.4	13.8	29.9	10.8	27.8	15.2	34.6	23	

### Material Specifications

Conductor Material Bare copper

**Insulation Material** Polyolefin

Jacket Material Low Smoke Zero Halogen (LSZH)

Separator MaterialPolyolefinSeparator 2 MaterialPolyolefin

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**  $-20 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \, (-4 \,^{\circ}\text{F to } +140 \,^{\circ}\text{F})$ 

Acid Gas Test Method EN 50267-2-3

EN50575 CPR Cable EuroClass Fire PerformanceCcaEN50575 CPR Cable EuroClass Smoke Ratings1aEN50575 CPR Cable EuroClass Droplets Ratingd1EN50575 CPR Cable EuroClass Acidity Ratinga1

Environmental Space Low Smoke Zero Halogen (LSZH)

Smoke Test Method IEC 61034-2

Packaging and Weights

**Cable weight** 55.955 kg/km | 37.6 lb/kft

Packaging Type CommPak® box

### 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

CENELEC

