



CS44Z3 Category 6A, F/UTP Cable, low smoke zero halogen, red jacket, 4 pair count, ANATEL, 1000ft (305 m) length reel

## Product Classification

<b>Regional Availability</b>	Latin America
<b>Portfolio</b>	NETCONNECT®
<b>Product Type</b>	Twisted pair cable

## General Specifications

<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>Jacket Color</b>	Red
<b>Pairs, quantity</b>	4
<b>Transmission Standards</b>	ANSI/TIA-568.2-D   Anatel   CENELEC EN 50288-6-1   ISO/IEC 11801 Class EA

## Dimensions

<b>Cable Length</b>	304.8 m   1000 ft
<b>Diameter Over Jacket, nominal</b>	7.595 mm   0.299 in
<b>Conductor Gauge, singles</b>	23 AWG

## Electrical Specifications

<b>Characteristic Impedance</b>	100 ohm
<b>Characteristic Impedance Tolerance</b>	±15 ohm
<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>	69 %

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<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>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	PSNEXT	ACRF	PSACRF	RL
	STD	STD	STD	STD	STD	STD
1	2.1	74.3	72.3	67.8	64.8	20
4	3.8	65.3	63.3	55.8	52.8	23
8	5.3	60.8	58.8	49.7	46.7	24.5
10	5.9	59.3	57.3	47.8	44.8	25
16	7.5	56.2	54.2	43.7	40.7	25
20	8.4	54.8	52.8	41.8	38.8	25
25	9.4	53.3	51.3	39.8	36.8	24.3
31.25	10.5	51.9	49.9	37.9	34.9	23.6
62.5	15	47.4	45.4	31.9	28.9	21.5
100	19.1	44.3	42.3	27.8	24.8	20.1
200	27.6	39.8	37.8	21.8	18.8	18
250	31.1	38.3	36.3	19.8	16.8	17.3
300	34.3	37.1	35.1	18.3	15.3	16.8
400	40.1	35.3	33.3	15.8	12.8	15.9
500	45.3	33.8	31.8	13.8	10.8	15.2

## Material Specifications

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

## 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 +75 °C (-4 °F to +167 °F)
<b>Acid Gas Test Method</b>	IEC 60754-2
<b>Flame Test Method</b>	IEC 60332-3-22
<b>Smoke Test Method</b>	IEC 61034-2

Packaging and Weights

<b>Packaging Type</b>	Reel
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