

CS44ZC Category 6A F/UTP Cable, low smoke zero halogen, low toxicity, white jacket, 4 pair count, 1000 ft (305 m) length, reel

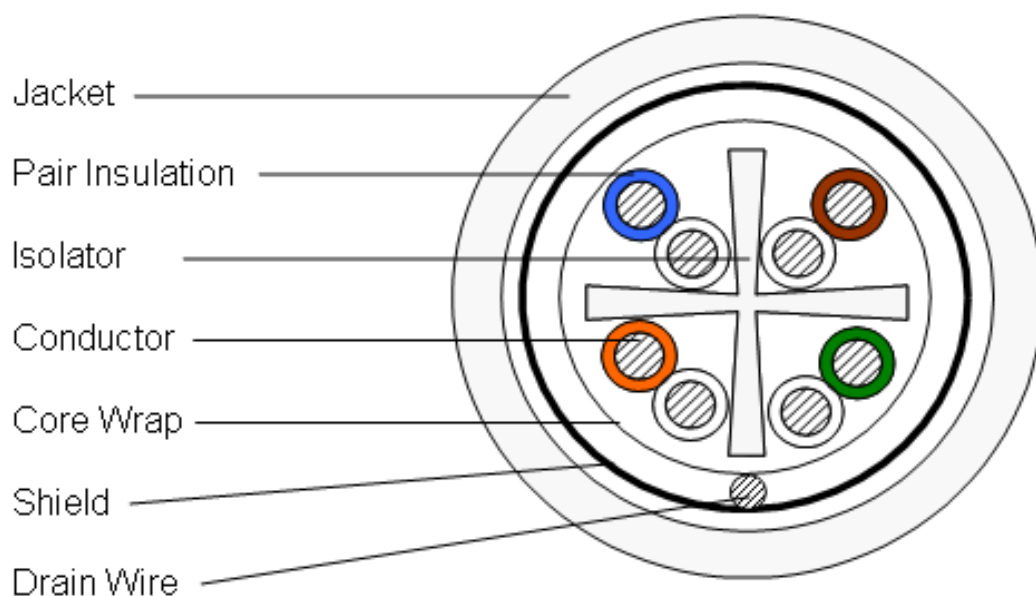
Product Classification

Portfolio	NETCONNECT®
Product Type	Twisted pair cable
Regional Availability	EMEA

Standards And Qualifications

EN50575 CPR Cable EuroClass	Cca s1a d0 a1
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Cross Section Drawing



Construction Materials

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

Dimensions

Cable Length	305 m 1000 ft
Cable Length Tolerance	±5%

Cable Weight	24.06 lb/kft
Diameter Over Jacket, nominal	7.518 mm 0.296 in
Jacket Thickness	0.508 mm 0.020 in

Electrical Performance

Electrical Specifications

ANSI/TIA Category	6A
dc Resistance Unbalance, maximum	2 %
dc Resistance, maximum	7.61 ohms/100 m
Mutual Capacitance at Frequency	4.2 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	79 %
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
Transmission Standards	ISO/IEC 11801 Class EA

Environmental Specifications

Environmental Space	Low Smoke Zero Halogen (LSZH)
Smoke Test Method	IEC 61034-2
Acid Gas Test Method	EN 50267-2-3
Installation Temperature	0 °C to +50 °C (+32 °F to +122 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)

General Specifications

Cable Type	F/UTP (shielded)
Packaging Type	Reel
Pairs, quantity	4
Cable Component Type	Horizontal
Jacket Color	White
Product Number	CS44ZC
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8

Mechanical Specifications

Pulling Tension, maximum	11 kg 25 lb
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Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

ISO 9001:2015

CENELEC

Classification

Compliant

Designed, manufactured and/or distributed under this quality management system

EN 50575 compliant, Declaration of Performance (DoP) available



Electrical Performance

Std	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above
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	Std	Std	Std	Std	Std	Std	Std	Std	Std
1	2.1	75.3	73.2	72.3	70.2	68.0	65.0	20.0	40.0	35.0
4	3.8	66.3	62.5	63.3	59.5	56.0	53.0	23.0	34.0	23.0
8	5.3	61.8	56.4	58.8	53.4	49.9	46.9	24.5	31.0	16.9
10	5.9	60.3	54.4	57.3	51.4	48.0	45.0	25.0	30.0	15.0
16	7.5	57.2	49.8	54.2	46.8	43.9	40.9	25.0	28.0	10.9
20	8.4	55.8	47.4	52.8	44.4	42.0	39.0	25.0	27.0	9.0
25	9.4	54.3	45.0	51.3	42.0	40.0	37.0	24.3	26.0	7.0
31.25	10.5	52.9	42.4	49.9	39.4	38.1	35.1	23.6	25.1	
62.5	15.0	48.4	33.4	45.4	30.4	32.1	29.1	21.5	22.0	
100	19.1	45.3	26.2	42.3	23.2	28.0	25.0	20.1	20.0	
155	24.1	42.4	18.4	39.4	15.4	24.2	21.2	18.8	18.1	
200	27.6	40.8	13.2	37.8	10.2	22.0	19.0	18.0	17.0	
250	31.1	39.3	8.3	36.3	5.3	20.0	17.0	17.3	16.0	
300	34.3	38.1	3.9	35.1	0.9	18.5	15.5	16.8		
350	37.2	37.1	-0.1	34.1	-3.1	17.1	14.1	16.3		
400	40.1	36.3	-3.8	33.3	-6.8	16.0	13.0	15.9		
500	45.3	34.8	-10.4	31.8	-13.4	14.0	11.0	15.2		