

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

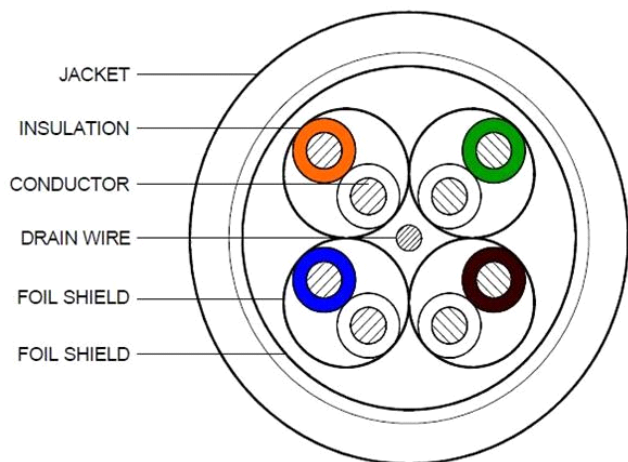
Product Classification

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

Standards And Qualifications

EN50575 CPR Cable EuroClass	Dca s1 d2 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	500 m 1640 ft
Cable Length Tolerance	±5%
Cable Weight	48.50 kg/km
Diameter Over Jacket, nominal	7.000 mm 0.276 in
Jacket Thickness	0.610 mm 0.024 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
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	IEC 60754-2
Flame Test Method	IEC 60332-3-24
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/FTP (shielded)
Packaging Type	Reel
Pairs, quantity	4
Cable Component Type	Horizontal
Jacket Color	White
Product Number	CS44Z3
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8

Mechanical Specifications

Pulling Tension, maximum 11 kg | 25 lb

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		