NCC44SBDB

NCC Cat 6A F/FTP, Plug-to-Plug, Class B2ca

Product Classification

Regional Availability	EMEA
Portfolio	NETCONNECT®
Product Type	Twisted pair patch cord
Product Series	NCC
Ordering Note	Cords < 1 m are valid elements for use in a channel or as an equipment interconnect but due to their limited length are not guaranteed to meet component compliance requirements that were developed to assess the quality of longer cords	Cords > 1 m are authorized for use in channels and are an effective standalone method used to connect active devices

General Specifications

ANSI/TIA Category	6A
Cable Type	F/FTP (shielded)
Conductor Type	Solid
Interface, Connector A	RJ45 plug
Interface Feature, connector A	Standard
Interface, Connector B	RJ45 plug
Interface Feature, connector B	Standard
Jacket Color	White
Pairs, quantity	4
Transmission Standards	IEEE 802.3bt Type 4
Wiring	T568B

Dimensions

Cable Assembly Length Range (m)	1 – 100

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Cable Assembly Length Range (ft)	1 – 328
Diameter Over Jacket	7.01 mm | 0.276 in
Compatible Conductor Gauge, solid	23 AWG

Ordering Tree

UOM

11	M	Meter

Length

12	XXX

Notes

- Cords > 1m are authorized for use in channels and are an effective standalone method used to connect active devices

- Cords < 1m are also valid elements for use in a channel or as an equipment interconnect but due to their limited length are not guaranteed to meet component compliance requirements that were developed to assess the quality of longer cords

Mechanical Specifications

Plug Insertion Life, minimum	750 times

Environmental Specifications

Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Low Smoke Zero Halogen (LSZH)
Safety Standard	UL 1863

Packaging and Weights

Packaging quantity	1

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Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available

CENELEC

Included Products

884048458/16
CS44ZB WHT C6A 4/23 F/FTP
RL 500M

– CS44ZB Category 6A F/FTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1640 ft (500 m) length, reel

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CS44ZB Category 6A F/FTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1640 ft (500 m) length, reel

Product Classification

Regional Availability	EMEA
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

General Specifications

Product Number	CS44ZB
ANSI/TIA Category	6A
Cable Component Type	Horizontal
Cable Type	F/FTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	White
Pairs, quantity	4
Transmission Standards	ANSI/TIA-568.2-D	ISO/IEC 11801 Class EA

Dimensions

Cable Length	500 m	1,640.42 ft
Cable Length Tolerance	±5%
Diameter Over Conductor	1.168 mm	0.046 in
Diameter Over Jacket, nominal	7.01 mm	0.276 in
Jacket Thickness	0.635 mm	0.025 in
Conductor Gauge, singles	23 AWG

Cross Section Drawing

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884048458/16 | CS44ZB WHT C6A 4/23 F/FTP RL 500M
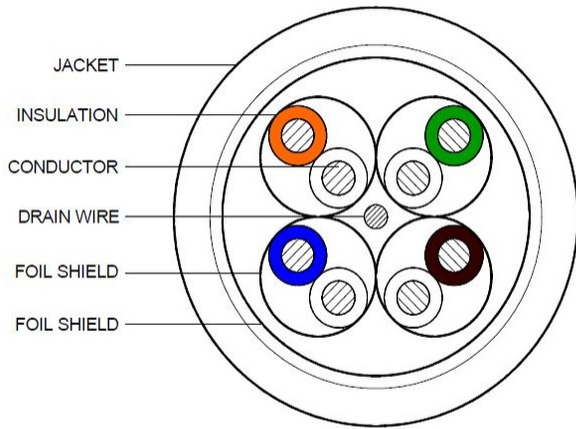
Electrical Specifications

Coupling Attenuation	Type II
dc Resistance Unbalance, maximum	2 %
dc Resistance, maximum	7.61 ohms/100 m	2.32 ohms/100 ft
Mutual Capacitance at Frequency	4.2 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	80 %
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	d
Transfer Impedance	Grade 2

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884048458/16 | CS44ZB WHT C6A 4/23 F/FTP RL 500M

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
	TYP	TYP	TYP	TYP	TYP	TYP	TYP	TYP	TYP	TYP
1	1.9	98.4	96.5	96.6	94.6	98.9	96.6	29	61.9	61.7
4	3.5	99.9	96.3	97.8	94.2	98.2	95.6	30.1	55.9	56.1
8	4.9	96.1	91.2	93.8	88.9	94.6	92.1	34.9	57.2	56.6
10	5.5	95.5	90.1	93.3	87.9	92.2	89.8	34.8	54.1	53.7
16	6.9	93	86	90.7	83.8	89.1	86.5	35.9	51.6	51.9
20	7.8	90	82.2	87.6	79.8	88.3	85.8	35.8	52.8	52
25	8.8	88.5	79.7	86.1	77.3	87.1	84.7	34.6	51.6	51.3
31.25	9.9	88.7	78.8	86.2	76.3	85.5	83.1	32.7	50.7	
62.5	14.1	86.1	72	83.9	69.7	79.7	77.4	30	46.5	
100	17.9	79.8	61.9	78.4	60.5	70.9	68.9	27	43.8	
155	22.4	82.1	59.8	79.9	57.6	69.1	66.9	23.4	40.9	
200	25.5	79.6	54.1	77.5	52	62	59.9	21	39.1	
250	28.6	76.1	47.5	74.3	45.7	63.9	61.4	19	36.5	
300	31.4	70.9	39.5	69.6	38.2	62.2	59.9	18	35.9	
350	34.1	73.4	39.4	72	37.9	55.6	53.5	16.9	35	
400	36.4	73.2	36.8	71.4	35	54.4	52.3	16	34	
500	41.1	68.8	27.7	67.1	26.1	42.9	40.7	15.2	33.1	
600	45.3	67.6	22.3	65.7	20.4	43.5	41.1	12.9	31.7	
650	47.1	65.4	18.3	63.5	16.4	38.9	36.6	12.4	31.4	

Material Specifications

Conductor Material   Bare copper

Insulation Material   Polyolefin

Jacket Material   Low Smoke Zero Halogen (LSZH)

Shield (Tape) Material   Polyester/Aluminum shield

Mechanical Specifications

Pulling Tension, maximum   11.34 kg | 25 lb

Environmental Specifications

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Installation temperature	0 °C to +50 °C (+32 °F to +122 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Acid Gas Test Method	EN 50267-2-3
EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d1
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Low Smoke Zero Halogen (LSZH)
Smoke Test Method	IEC 61034-2

Packaging and Weights

Cable weight	48,514.145 kg/km	32600 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

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