884041458/16 | CS44ZC WHT C6A 2x4/23 F/FTP RL 500M

CS44ZC Category 6A F/FTP Cable, low smoke zero halogen, white jacket, 8 pair count, 2 x 4 pair cables in a duplex style configuration,1640 ft (500 m) length, reel

This product will be discontinued on: October 1, 2024

Replaced By:

884033458/16 CS44ZB WHT C6A 2x4/23 F/FTP RL 500M	CS44ZB Category 6A F/FTP Cable, low smoke zero halogen, white jacket, 8 pair count, 2 x 4 pair cables in a duplex style configuration,1640 ft (500 m) length, reel

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	F/FTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	16
Jacket Color	White
Pairs, quantity	8
Transmission Standards	ANSI/TIA-568.2-D | ISO/IEC 11801 Class EA

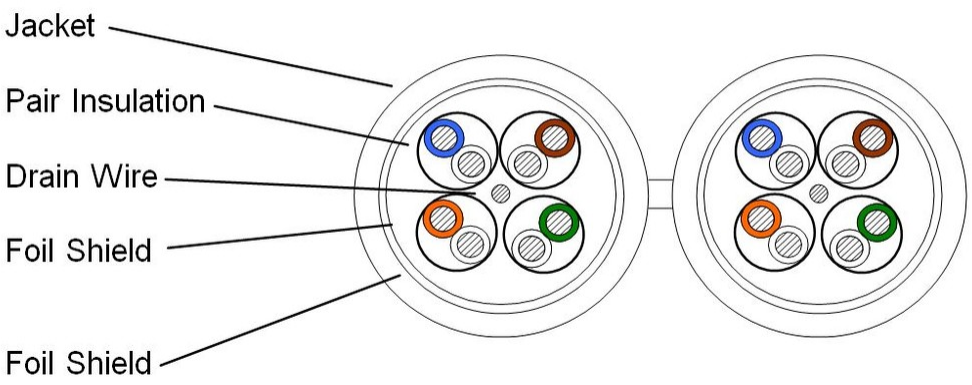
Dimensions

Cable Length	500 m | 1,640.42 ft
Cable Length Tolerance	±5%
Diameter Over Insulated Conductor	1.168 mm | 0.046 in

884041458/16 | CS44ZC WHT C6A 2x4/23 F/FTP RL 500M

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



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

884041458/16 | CS44ZC WHT C6A 2x4/23 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)
ACR	Attenuation to Crosstalk Ratio (dB/100m)
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)
PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)
TCL	Transverse Conversion Loss (dB/100m)
NEXT	Near End Crosstalk (dB/100m)
PSNEXT	Power Sum Near End Crosstalk (db/100m)
ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
RL	Return Loss (dB)
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	65	20	40	35
4	3.8	66.3	62.5	63.3	59.5	56	53	23	34	23
8	5.3	61.8	56.4	58.8	53.4	49.9	46.9	24.5	31	16.9
10	5.9	60.3	54.4	57.3	51.4	48	45	25	30	15
16	7.5	57.2	49.8	54.2	46.8	43.9	40.9	25	28	10.9
20	8.4	55.8	47.4	52.8	44.4	42	39	25	27	9
25	9.4	54.3	45	51.3	42	40	37	24.3	26	7
31.25	10.5	52.9	42.4	49.9	39.4	38.1	35.1	23.6	25.1	
62.5	15	48.4	33.4	45.4	30.4	32.1	29.1	21.5	22	
100	19.1	45.3	26.2	42.3	23.2	28	25	20.1	20	
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	19	18	17	
250	31.1	39.3	8.3	36.3	5.3	20	17	17.3	16	
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	13	15.9		
500	45.3	34.8	-10.4	31.8	-13.4	14	11	15.2		

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

Installation temperature	0 °C to +50 °C (+32 °F to +122 °F)

884041458/16 | CS44ZC WHT C6A 2x4/23 F/FTP RL 500M

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	Cca
EN50575 CPR Cable EuroClass Smoke Rating	s1
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	97,028.289 kg/km | 65200 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