# 884013758/16 | CS34ZC WHT C6 2x4/23 F/FTP RL 500M

CS34ZC Category 6 F/FTP Cable, low smoke zero halogen, white jacket, 8 pair count, 2 x 4 pair cables in a duplex style configuration, 500 m length Reel

#### OBSOLETE

This product was discontinued on: October 1, 2024

#### Product Classification

Regional Availability	EMEA
Portfolio	NETCONNECT®
Product Type	Twisted pair cable
General Specifications	
Product Number	CS34ZC
ANSI/TIA Category	6
Cable Component Type	Horizontal
Cable Type	F/FTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	16
Jacket Color	White
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	8
Separator Type	Tape separator
Transmission Standards	ANSI/TIA-568.2-D
Dimensions	
Cable Length	500 m   1,640.42 ft
Diameter Over Jacket, nominal	6.985 mm   0.275 in
Jacket Thickness	0.635 mm   0.025 in
Conductor Gauge, singles	23 AWG

#### Cross Section Drawing

Page 1 of 4

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: October 3, 2024

**COMMSCOPE**<sup>®</sup>

### 884013758/16 | CS34ZC WHT C6 2x4/23 F/FTP RL 500M

Jacket
Pair Insulation
Drain Wire
Foil Shield
Foil Shield

#### **Electrical Specifications**

Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	7.61 ohms/100 m   2.32 ohms/100 ft
Delay Skew, maximum	45 ns
Dielectric Strength, minimum	1500 Vac   2500 Vdc
Mutual Capacitance at Frequency	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	69 %
Operating Frequency, maximum	250 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

Page 2 of 4

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: October 3, 2024



#### Electrical Cable Performance

CS CommScope			
STD Refers to the stan	dard value listed under Transmission Standards in	the Electrical Specificati	ons above
TYP Typical Electrical	Performance		
IL Insertion Loss (dE	/100m)	NEXT	Near End Crosstalk (dB/100m)
ACR Attenuation to Cro	osstalk Ratio (dB/100m)	PSNEXT	Power Sum Near End Crosstalk (db/100m)
PSACR Power Sum Atten	uation to Crosstalk Ratio (dB/100m)	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
PSACRF Power Sum Atten	uation to Crosstalk Ratio - Far End (dB/100m)	RL	Return Loss (dB)
TCL Transverse Conve	rsion Loss (dB/100m)	ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)

Freq.				NEXT		ACR			PSNEXT			PSACR			ACRF			PSACRF			RL			TCL		ELTCTL		
MHz	cs	STD	түр	cs	STD	түр	cs	STD	түр	cs	STD	түр	CS	STD	түр	cs	STD	түр	cs	STD	түр	cs	STD	ТҮР	cs	STD	cs	STD
1	2	2	1.8	74.3	74.3	89.3	72.3	72.3	87.6	72.3	72.3	87	70.3	70.3	85.3	67.8	67.8	84.3	64.8	64.8	82.4	20	20	34	40	40	35	35
4	3.8	3.8	3.5	65.3	65.3	80	61.5	61.5	76.5	63.3	63.3	77.7	59.5	59.5	74.1	55.8	55.8	72.6	52.8	52.8	70.8	23	23	33.9	40	40	23	23
8	5.3	5.3	5	60.8	60.8	75.5	55.4	55.4	70.5	58.8	58.8	73.2	53.4	53.4	68.2	49.7	49.7	66.8	46.7	46.7	64.9	24.5	24.5	35.5	40	40	16.9	16.9
10	6	6	5.6	59.3	59.3	73.9	53.3	53.3	68.3	57.3	57.3	71.5	51.3	51.3	65.9	47.8	47.8	64.9	44.8	44.8	63	25	25	36.5	40	40	15	15
16	7.6	7.6	7.2	56.2	56.2	70.6	48.7	48.7	63.4	54.2	54.2	68.3	46.7	46.7	61.1	43.7	43.7	60.8	40.7	40.7	58.9	25	25	37.6	38	38	10.9	10.9
20	8.5	8.5	8.1	54.8	54.8	69.2	46.3	46.3	61.2	52.8	52.8	66.9	44.3	44.3	58.8	41.8	41.8	58.9	38.8	38.8	56.9	25	25	38.2	37	37	9	9
25	9.5	9.5	9	53.3	53.3	67.6	43.8	43.8	58.6	51.3	51.3	65.3	41.8	41.8	56.2	39.8	39.8	57	36.8	36.8	55	24.3	24.3	38.2	36	36	7	7
31.25	10.7	10.7	10.1	51.9	51.9	66.3	41.2	41.2	56.1	49.9	49.9	63.9	39.2	39.2	53.8	37.9	37.9	55	34.9	34.9	53	23.6	23.6	38.3	35.1	35.1		
62.5	15.4	15.4	14.5	47.4	47.4	61.4	32	32	46.9	45.4	45.4	59	30	30	44.5	31.9	31.9	48.9	28.9	28.9	46.9	21.5	21.5	34.7	32	32		
100	19.8	19.8	18.6	44.3	44.3	58.1	24.5	24.5	39.5	42.3	42.3	55.7	22.5	22.5	37.1	27.8	27.8	44.7	24.8	24.8	42.8	20.1	20.1	31.6	30	30		
155	25.2	25.2	23.5	41.4	41.4	55.7	16.3	16.3	32.2	39.4	39.4	53	14.3	14.3	29.5	24	24	41	21	21	39	18.8	18.8	29.6	28.1	28.1		
200	29	29	26.9	39.8	39.8	52.6	10.8	10.8	25.7	37.8	37.8	50.4	8.8	8.8	23.4	21.8	21.8	38.6	18.8	18.8	36.7	18	18	29.3	27	27		
250	32.8	32.8	30.3	38.3	38.3	50.8	5.5	5.5	20.5	36.3	36.3	48.6	3.5	3.5	18.3	19.8	19.8	36.5	16.8	16.8	34.7	17.3	17.3	28.8	26	26		
300			33.5			49			15.6			46.8			13.4			34.5			32.6			28.9				
350			36.4			47.6			11.2			45.4			9			33			31			29				
400			39			46.3			7.3			44.1			5.1			31.3			29.3			30.3				
500			44.3			43.2			-1.1			41.2			-3.1			27.3			25.5			31				
550			44.6			43.1			-0.5			41.2			-2.5			27.4			25.5			31				
650			51.3			40.2			-11.1			38.4			-12.9			22.3			20.4			25				

#### Material Specifications

**Conductor Material** 

**Insulation Material** 

**Jacket Material** 

**Separator Material** 

Bare copper Polyolefin Low Smoke Zero Halogen (LSZH) Polyolefin

#### Mechanical Specifications

**Pulling Tension, maximum** 

11.34 kg | 25 lb

#### **Environmental Specifications**

Page 3 of 4

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: October 3, 2024



### 884013758/16 | CS34ZC WHT C6 2x4/23 F/FTP RL

## 500M

Installation temperature	0 °C to +60 °C (+32 °F to +140 °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	Сса
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	97.698 kg/km   65.65 lb/kft
Packaging Type	Reel

#### Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant
UK-ROHS	Compliant



©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: October 3, 2024

