

884013758/16 | CS34ZC WHT C6 8/23 F/FTP RL

500M

CS34ZC Category 6 F/FTP Cable, low smoke zero halogen, white jacket, 8 pair count, 500 m length Reel

Product Classification

Regional Availability	EMEA
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

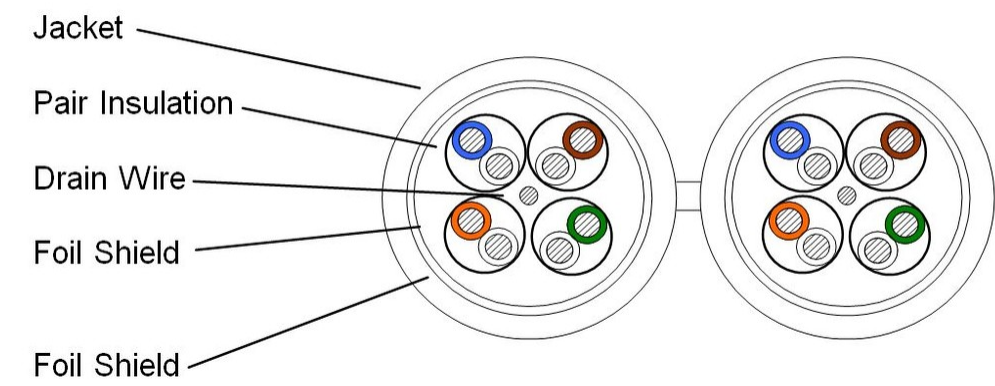
General Specifications

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



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

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
	TYP	TYP	TYP	TYP	TYP	TYP	TYP	TYP
1	1.8	89.3	87.6	87	85.3	84.3	82.4	34
4	3.5	80	76.5	77.7	74.1	72.6	70.8	33.9
8	5	75.5	70.5	73.2	68.2	66.8	64.9	35.5
10	5.6	73.9	68.3	71.5	65.9	64.9	63	36.5
16	7.2	70.6	63.4	68.3	61.1	60.8	58.9	37.6
20	8.1	69.2	61.2	66.9	58.8	58.9	56.9	38.2
25	9	67.6	58.6	65.3	56.2	57	55	38.2
31.25	10.1	66.3	56.1	63.9	53.8	55	53	38.3
62.5	14.5	61.4	46.9	59	44.5	48.9	46.9	34.7
100	18.6	58.1	39.5	55.7	37.1	44.7	42.8	31.6
155	23.5	55.7	32.2	53	29.5	41	39	29.6
200	26.9	52.6	25.7	50.4	23.4	38.6	36.7	29.3
250	30.3	50.8	20.5	48.6	18.3	36.5	34.7	28.8
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

Electrical Performance

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Freq (MHz)	IL (dB/100m)			NEXT (dB/100m)			ACR (dB/100m)			PSNEXT (dB/100m)			PSACR (dB/100m)			ACRF (dB/100m)			SACRF (dB/100m)			RL (dB)			TCL		ELTCTL	
	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	CS	Std
1	2.0	2.0	1.8	74.3	74.3	89.3	72.3	72.3	87.6	72.3	72.3	87.0	70.3	70.3	85.3	67.8	67.8	84.3	64.8	64.8	82.4	20.0	20.0	34.0	40.0	40.0	35.0	35.0
4	3.8	3.8	3.5	65.3	65.3	80.0	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	23.0	23.0	33.9	40.0	40.0	23.0	23.0
8	5.3	5.3	5.0	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	40.0	40.0	16.9	16.9
10	6.0	6.0	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	63.0	25.0	25.0	36.5	40.0	40.0	15.0	15.0
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	25.0	25.0	37.6	38.0	38.0	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	25.0	25.0	38.2	37.0	37.0	9.0	9.0
25	9.5	9.5	9.0	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	57.0	36.8	36.8	55.0	24.3	24.3	38.2	36.0	36.0	7.0	7.0
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	55.0	34.9	34.9	53.0	23.6	23.6	38.3	35.1	35.1		
62.5	15.4	15.4	14.5	47.4	47.4	61.4	32.0	32.0	46.9	45.4	45.4	59.0	30.0	30.0	44.5	31.9	31.9	48.9	28.9	28.9	46.9	21.5	21.5	34.7	32.0	32.0		
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	30.0	30.0		
155	25.2	25.2	23.5	41.4	41.4	55.7	16.3	16.3	32.2	39.4	39.4	53.0	14.3	14.3	29.5	24.0	24.0	41.0	21.0	21.0	39.0	18.8	18.8	29.6	28.1	28.1		
200	29.0	29.0	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	18.0	18.0	29.3	27.0	27.0		
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	26.0	26.0		
300			33.5			49.0			15.6			46.8			13.4			34.5			32.6			28.9				
350			36.4			47.6			11.2			45.4			9.0			33.0			31.0			29.0				
400			39.0			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			31.0				
550			44.6			43.1			-1.5			41.2			-3.5			27.4			25.5			31.0				
650			51.3			40.2			-11.1			38.4			-12.9			22.3			20.4			25.0				

CS = CommScope | Std = Standard value listed under Transmission Standards in the Electrical Specifications | Typ = Typical

Material Specifications

Conductor Material	Bare copper
Insulation Material	Polyolefin
Jacket Material	Low Smoke Zero Halogen (LSZH)
Separator Material	Polyolefin

Mechanical Specifications

Pulling Tension, maximum	11.34 kg 25 lb
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Environmental Specifications

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	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	97.698 kg/km 65.65 lb/kft
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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

