884036714/10 | CS34ZC YEL C6 4/23 U/UTP CPK 305M



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	U/UTP (unshielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	Yellow
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Separator Type	Tape separator
Transmission Standards	ANSI/TIA-568.2-D CENELEC EN 50288-6-1 ISO/IEC 11801 Class E
Dimensions	
Cable Length	304.8 m 1000 ft
Diameter Over Insulated Conductor	1.041 mm 0.041 in
Diameter Over Jacket, nominal	5.918 mm 0.233 in
Diameter Over Jacket, nominal Jacket Thickness	5.918 mm 0.233 in 0.559 mm 0.022 in

Cross Section Drawing

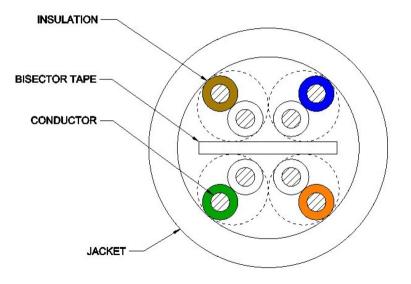
• ••

. .

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: April 15, 2024





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)	71 %
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

b

Segregation Class

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: April 15, 2024



Electrical Cable Performance

CS	CommScope		
STD	Refers to the standard value listed under Transmission Standards in the	e Electrical Specificat	tions above
ТҮР	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.			NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL		TCL		ELTCTL	
MHz	cs	STD	cs	STD	CS	STD	cs	STD	CS	STD	cs	STD	cs	STD	cs	STD	cs	STD	cs	STD
1	2	2	75.3	74.3	73.3	72.3	72.3	72.3	70.3	70.3	68	67.8	65	64.8	20	20	40	40	35	35
4	3.8	3.8	66.3	65.3	62.5	61.5	63.3	63.3	59.5	59.5	56	55.8	53	52.8	23	23	40	40	23	23
8	5.3	5.3	61.8	60.8	56.4	55.4	58.8	58.8	53.4	53.4	49.9	49.7	46.9	46.7	24.5	24.5	40	40	16.9	16.9
10	6	6	60.3	59.3	54.3	53.3	57.3	57.3	51.3	51.3	48	47.8	45	44.8	25	25	40	40	15	15
16	7.6	7.6	57.2	56.2	49.7	48.7	54.2	54.2	46.7	46.7	43.9	43.7	40.9	40.7	25	25	38	38	10.9	10.9
20	8.5	8.5	55.8	54.8	47.3	46.3	52.8	52.8	44.3	44.3	42	41.8	39	38.8	25	25	37	37	9	9
25	9.5	9.5	54.3	53.3	44.8	43.8	51.3	51.3	41.8	41.8	40	39.8	37	36.8	24.3	24.3	36	36	7	7
31.25	10.7	10.7	52.9	51.9	42.2	41.2	49.9	49.9	39.2	39.2	38.1	37.9	35.1	34.9	23.6	23.6	35.1	35.1		
62.5	15.4	15.4	48.4	47.4	33	32	45.4	45.4	30	30	32.1	31.9	29.1	28.9	21.5	21.5	32	32		
100	19.8	19.8	45.3	44.3	25.5	24.5	42.3	42.3	22.5	22.5	28	27.8	25	24.8	20.1	20.1	30	30		
155	25.2	25.2	42.4	41.4	17.3	16.3	39.4	39.4	14.3	14.3	24.2	24	21.2	21	18.8	18.8	28.1	28.1		
200	29	29	40.8	39.8	11.8	10.8	37.8	37.8	8.8	8.8	22	21.8	19	18.8	18	18	27	27		
250	32.8	32.8	39.3	38.3	6.5	5.5	36.3	36.3	3.5	3.5	20	19.8	17	16.8	17.3	17.3	26	26		

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				
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)				

	0 0 10 100 0 (102 1 10 1 10
Operating Temperature	-20 °C to +60 °C (-4 °F to +140
Acid Gas Test Method	EN 50267-2-3
EN50575 CPR Cable EuroClass Fire Performance	Сса

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: April 15, 2024



884036714/10 | CS34ZC YEL C6 4/23 U/UTP CPK

EN50575 CPR Cable Euro	Class Smoke Rating	s1a			
EN50575 CPR Cable Euro	d1				
EN50575 CPR Cable Euro	a1				
Environmental Space		Low Smoke Zero Halogen (LSZH)			
Smoke Test Method		IEC 61034-2			
Packaging and Weights					
Cable weight		38.097 kg/km 25.6 lb/kft			
Packaging Type		CommPak® box			
Regulatory Compliance/Certifications					
Agency	Classification				
CENELEC	EN 50575 compliant, Declaration	of Performance (DoP) available			

Designed, manufactured and/or distributed under this quality management system

305M

ISO 9001:2015

CENELEC

Page 4 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: April 15, 2024

