884046258/16 | CS54ZB WHT C7 4/23 F/FTP RL 500M



CS54ZB Category 7 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	CS54ZB
ANSI/TIA Category	7
Cable Component Type	Horizontal
Cable Type	F/FTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	8
Jacket Color	White
Note	All electrical transmission tests include swept frequency measurements
Pairs, quantity	4
Transmission Standards	CENELEC EN 50288-4-1 IEC 61156-5 Cat 7 ISO/IEC 11801 Class F
Dimensions	
Cable Length	500 m 1,640.42 ft
Cable Length Tolerance	±5%
Diameter Over Jacket, nominal	7.399 mm 0.291 in
Jacket Thickness	0.635 mm 0.025 in
Conductor Gauge, singles	23 AWG

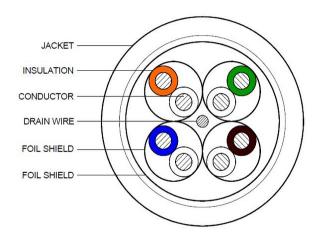
Cross Section Drawing

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Electrical Specifications

Coupling Attenuation	Type Ib
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	600 MHz
Operating Voltage, maximum	80 V
Segregation Class	d
Transfer Impedance	Grade 2

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Electrical Cable Performance

CommScope		
Refers to the standard value listed under Transmission Standards in the Ele	ctrical Specificatio	ons above
Typical Electrical Performance		
Insertion Loss (dB/100m)	NEXT	Near End Crosstalk (dB/100m)
Attenuation to Crosstalk Ratio (dB/100m)	PSNEXT	Power Sum Near End Crosstalk (db/100m)
Power Sum Attenuation to Crosstalk Ratio (dB/100m)	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)	RL	Return Loss (dB)
Transverse Conversion Loss (dB/100m)	ELTCTL	Equal Level Transverse Conversion Transfer Loss (dB/100m)
	Refers to the standard value listed under Transmission Standards in the Ele Typical Electrical Performance Insertion Loss (dB/100m) Attenuation to Crosstalk Ratio (dB/100m) Power Sum Attenuation to Crosstalk Ratio (dB/100m) Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)	Refers to the standard value listed under Transmission Standards in the Electrical Specification Typical Electrical Performance Insertion Loss (dB/100m) NEXT Attenuation to Crosstalk Ratio (dB/100m) PSNEXT Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m) RL

Freq. IL MHz STD	NEXT	NEXT PSNEXT	ACRF	PSACRF STD	RL	
	STD STD STD	STD	STD			
1	2	78	75	78	75	20
4	3.7	78	75	78	75	23
8	5.2	78	75	77.2	74.2	24.5
10	5.9	78	75	75.3	72.3	25
16	7.4	78	75	71.2	68.2	25
20	8.3	78	75	69.3	66.3	25
25	9.3	78	75	67.3	64.3	24.3
31.25	10.4	78	75	65.4	62.4	23.6
62.5	14.9	75.5	72.5	59.4	56.4	21.5
100	19	72.4	69.4	55.3	52.3	20.1
155	24	69.5	66.5	51.5	48.5	18.8
200	27.5	67.9	64.9	49.3	46.3	18
250	31	66.4	63.4	47.3	44.3	17.3
300	34.2	65.2	62.2	45.8	42.8	17.3
350	37.2	64.2	61.2	44.4	41.4	17.3
400	40	63.4	60.4	43.3	40.3	17.3
500	45.3	61.9	58.9	41.3	38.3	17.3
550	47.7	61.3	58.3	40.5	37.5	17.3
600	50.1	60.7	57.7	39.7	36.7	17.3
650	52.4	60.2	57.2	39	36	17.3

Material Specifications

Conductor Material	Bare copper
Insulation Material	Polyolefin
Jacket Material	Low Smoke Zero Halogen (LSZH)
Separator Material	Polyolefin
Shield (Braid) Material	Tinned copper
Shield (Tape) Material	Polyester/Aluminum shield

Mechanical Specifications

Pulling Tension, maximum

11.34 kg | 25 lb

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Environmental Specifications

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	d0
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	52.011 kg/km 34.95 lb/kft

Reel

Regulatory Compliance/Certifications

Packaging Type

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
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

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