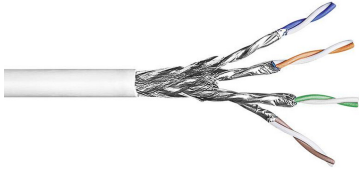


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CS54ZB Category 7 F/FTP Cable, low smoke zero halogen, white jacket, 8 pair count, 2 x 4 pair cables in a duplex style configuration, 1640 ft (500 m) length, reel

Product Classification

Regional Availability	EMEA
Portfolio	NETCONNECT®
Product Type	Twisted pair cable

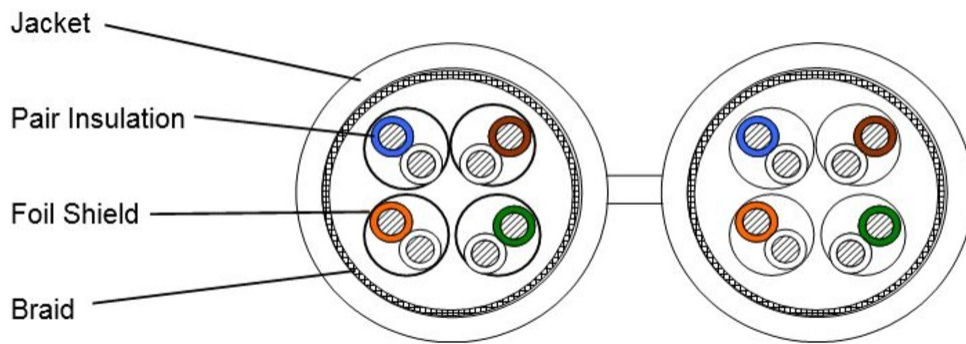
General Specifications

Product Number	CS54ZC
ANSI/TIA Category	7
Cable Component Type	Horizontal
Cable Type	F/FTP (shielded)
Conductor Type, singles	Solid
Conductors, quantity	16
Jacket Color	White
Pairs, quantity	8
Transmission Standards	IEC 61156-5 Cat 7 ISO/IEC 11801 Class FA

Dimensions

Cable Length	500 m 1,640.42 ft
Cable Length Tolerance	±5%
Diameter Over Jacket, nominal	7.595 mm 0.299 in
Jacket Thickness	0.635 mm 0.025 in
Conductor Gauge, singles	23 AWG

Cross Section Drawing



Electrical Specifications

Coupling Attenuation	Type I
dc Resistance Unbalance, maximum	2 %
dc Resistance, maximum	6.51 ohms/100 m 1.984 ohms/100 ft
Mutual Capacitance at Frequency	4.1 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	80 %
Operating Frequency, maximum	600 MHz
Operating Voltage, maximum	80 V

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	PSNEXT	ACRF	PSACRF	RL
	STD	STD	STD	STD	STD	STD
1	2.1	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	5.8	78	75	75.3	72.3	25
16	7.3	78	75	71.2	68.2	25
20	8.2	78	75	69.3	66.3	25
25	9.2	78	75	67.3	64.3	24.3
31.25	10.3	78	75	65.4	62.4	23.6
62.5	14.6	78	75	59.4	56.4	21.5
100	18.5	75.4	72.4	55.3	52.3	20.1
155	23.2	72.5	69.5	51.5	48.5	18.8
200	26.5	70.9	67.9	49.3	46.3	18
250	29.7	69.4	66.4	47.3	44.3	17.3
300	32.7	68.2	65.2	45.8	42.8	17.3
350	35.4	67.2	64.2	44.4	41.4	17.3
400	38	66.4	63.4	43.3	40.3	17.3
500	42.8	64.9	61.9	41.3	38.3	17.3
550	45	64.3	61.3	40.5	37.5	17.3
600	47.1	63.7	60.7	39.7	36.7	17.3
650	49.2	63.2	60.2	39	36	17
700	51.1	62.7	59.7	38.4	35.4	16.6
750	53.1	62.3	59.3	37.8	34.8	16.3
800	54.9	61.9	58.9	37.2	34.2	16.1
850	56.7	61.5	58.5	36.7	33.7	15.8
900	58.5	61.1	58.1	36.2	33.2	15.5
950	60.2	60.7	57.7	35.7	32.7	15.3
1,000	61.9	60.4	57.4	35.3	32.3	15.1
1,100	65.2	59.8	56.8	34.5	31.5	14.7
1,200	68.4	59.2	56.2	33.7	30.7	14.3

Material Specifications

Conductor Material	Bare copper
Insulation Material	Polyolefin

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Jacket Material	Low Smoke Zero Halogen (LSZH)
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	s1b
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	131.405 kg/km 88.3 lb/kft
Packaging Type	Reel