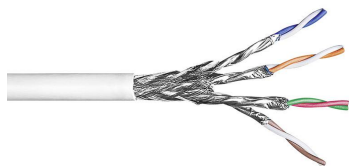


# 884049558/16 | CS54ZC WHT C7 2X4/23 F/FTP RL 500M

---



CS54ZC 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

<b>Regional Availability</b>	EMEA
<b>Portfolio</b>	NETCONNECT®
<b>Product Type</b>	Twisted pair cable

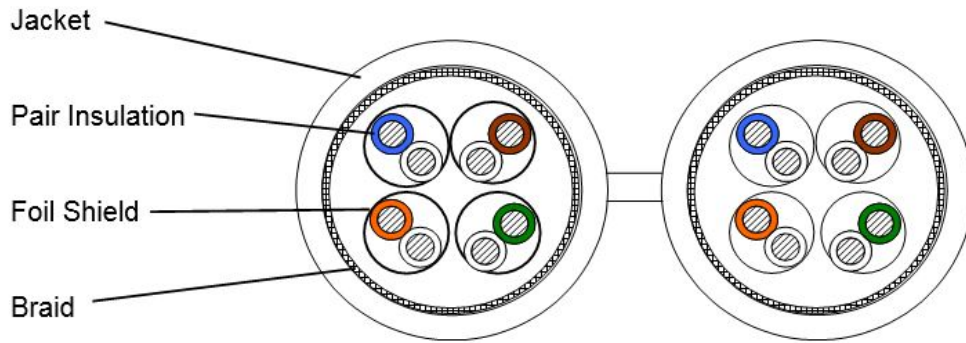
## General Specifications

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

## Dimensions

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

## Cross Section Drawing



## Electrical Specifications

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

## Electrical Cable Performance

<b>CS</b>	CommScope					
<b>STD</b>	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above					
<b>TYP</b>	Typical Electrical Performance					
<b>IL</b>	Insertion Loss (dB/100m)			<b>NEXT</b>	Near End Crosstalk (dB/100m)	
<b>ACR</b>	Attenuation to Crosstalk Ratio (dB/100m)			<b>PSNEXT</b>	Power Sum Near End Crosstalk (db/100m)	
<b>PSACR</b>	Power Sum Attenuation to Crosstalk Ratio (dB/100m)			<b>ACRF</b>	Attenuation to Crosstalk Ratio - Far End (dB/100m)	
<b>PSACRF</b>	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)			<b>RL</b>	Return Loss (dB)	
<b>TCL</b>	Transverse Conversion Loss (dB/100m)			<b>ELTCTL</b>	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

<b>Conductor Material</b>	Bare copper
<b>Insulation Material</b>	Polyolefin

# 884049558/16 | CS54ZC WHT C7 2X4/23 F/FTP RL 500M

---

<b>Jacket Material</b>	Low Smoke Zero Halogen (LSZH)
<b>Shield (Braid) Material</b>	Tinned copper
<b>Shield (Tape) Material</b>	Polyester/Aluminum shield

## Mechanical Specifications

<b>Pulling Tension, maximum</b>	11.34 kg   25 lb
---------------------------------	------------------

## Environmental Specifications

<b>Installation temperature</b>	0 °C to +50 °C (+32 °F to +122 °F)
<b>Operating Temperature</b>	-20 °C to +60 °C (-4 °F to +140 °F)
<b>Acid Gas Test Method</b>	EN 50267-2-3
<b>EN50575 CPR Cable EuroClass Fire Performance</b>	Cca
<b>EN50575 CPR Cable EuroClass Smoke Rating</b>	s1b
<b>EN50575 CPR Cable EuroClass Droplets Rating</b>	d1
<b>EN50575 CPR Cable EuroClass Acidity Rating</b>	a1
<b>Environmental Space</b>	Low Smoke Zero Halogen (LSZH)
<b>Smoke Test Method</b>	IEC 61034-2

## Packaging and Weights

<b>Cable weight</b>	131.405 kg/km   88.3 lb/kft
<b>Packaging Type</b>	Reel