

CS54ZB Category 7 F/FTP Cable, low smoke zero halogen, orange jacket, 4 pair count, 1640 ft (500 m) length, reel

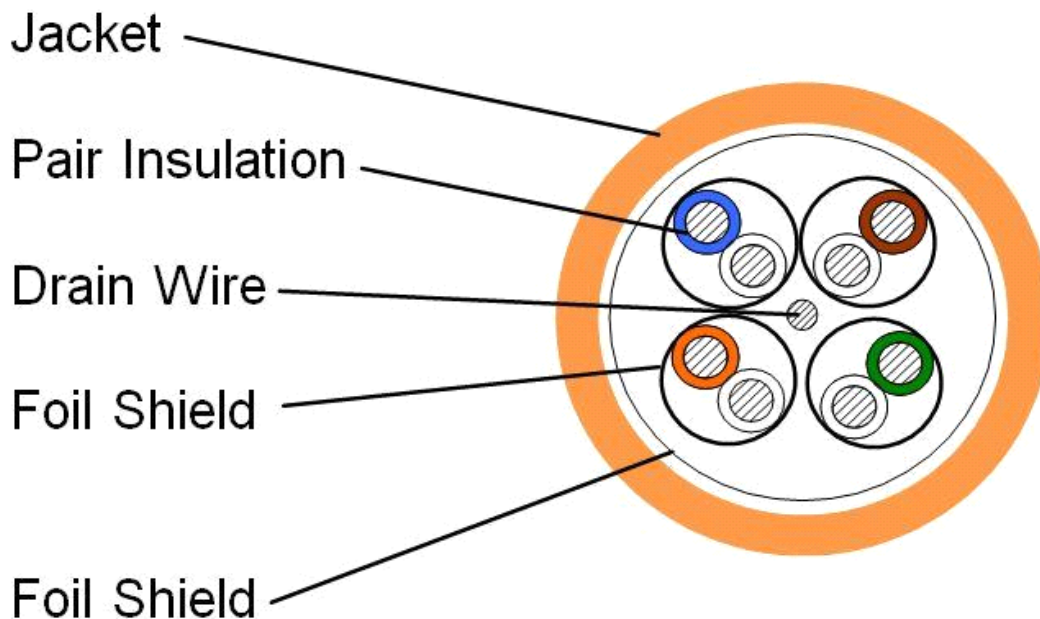
### Product Classification

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

### Standards And Qualifications

<b>EN50575 CPR Cable EuroClass</b>	B2ca   s1a   d1   a1
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### Cross Section Drawing



### Construction Materials

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

## Dimensions

<b>Cable Length</b>	500 m   1640 ft
<b>Cable Length Tolerance</b>	±5%
<b>Cable Weight</b>	34.95 lb/kft
<b>Diameter Over Jacket, nominal</b>	7.290 mm   0.287 in
<b>Jacket Thickness</b>	0.635 mm   0.025 in

## Electrical Performance

<b>IL</b>	Insertion Loss (dB/100m)
<b>NEXT</b>	Near End Crosstalk (dB/100m)
<b>PSNEXT</b>	Power Sum Near End Crosstalk (dB/100m)
<b>ELFEXT</b>	Equal-Level Far End Crosstalk (dB/100m)
<b>PSELFEXT</b>	Power Sum Equal-Level Far End Crosstalk (dB/100m)
<b>RL</b>	Return Loss (dB)

Freq (MHz)	IL	NEXT	PSNEXT	ELFEXT	PSELFEXT	RL
1	2.0	78.0	75.0	78.0	75.0	20.0
4	3.7	78.0	75.0	78.0	75.0	23.0
8	5.2	78.0	75.0	77.2	74.2	24.5
10	5.9	78.0	75.0	75.3	72.3	25.0
16	7.4	78.0	75.0	71.2	68.2	25.0
20	8.3	78.0	75.0	69.3	66.3	25.0
25	9.3	78.0	75.0	67.3	64.3	24.3
31.25	10.4	78.0	75.0	65.4	62.4	23.6
62.5	14.9	75.5	72.5	59.4	56.4	21.5
100	19.0	72.4	69.4	55.3	52.3	20.1
155	24.0	69.5	66.5	51.5	48.5	18.8
200	27.5	67.9	64.9	49.3	46.3	18.0
250	31.0	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	40.0	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	39.0	36.0	17.3

\*Values above 600 MHz are for engineering purposes only.

## Electrical Specifications

<b>ANSI/TIA Category</b>	7
<b>dc Resistance Unbalance, maximum</b>	2 %
<b>dc Resistance, maximum</b>	7.61 ohms/100 m
<b>Mutual Capacitance</b>	4.2 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
<b>Transmission Standards</b>	CENELEC EN 50288-4-1   ISO/IEC 11801 Class F
<b>Note</b>	All electrical transmission tests include swept frequency measurements

## Environmental Specifications

<b>Environmental Space</b>	Low Smoke Zero Halogen (LSZH)
<b>Smoke Test Method</b>	IEC 61034-2
<b>Acid Gas Test Method</b>	EN 50267-2-3
<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)

## General Specifications

<b>Cable Type</b>	F/FTP (shielded)
<b>Packaging Type</b>	Reel
<b>Pairs, quantity</b>	4
<b>Cable Component Type</b>	Horizontal
<b>Jacket Color</b>	Orange
<b>Product Number</b>	CS54ZB
<b>Conductor Gauge, singles</b>	23 AWG
<b>Conductor Type, singles</b>	Solid
<b>Conductors, quantity</b>	8

## Mechanical Specifications

<b>Pulling Tension, maximum</b>	11 kg   25 lb
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available

