

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

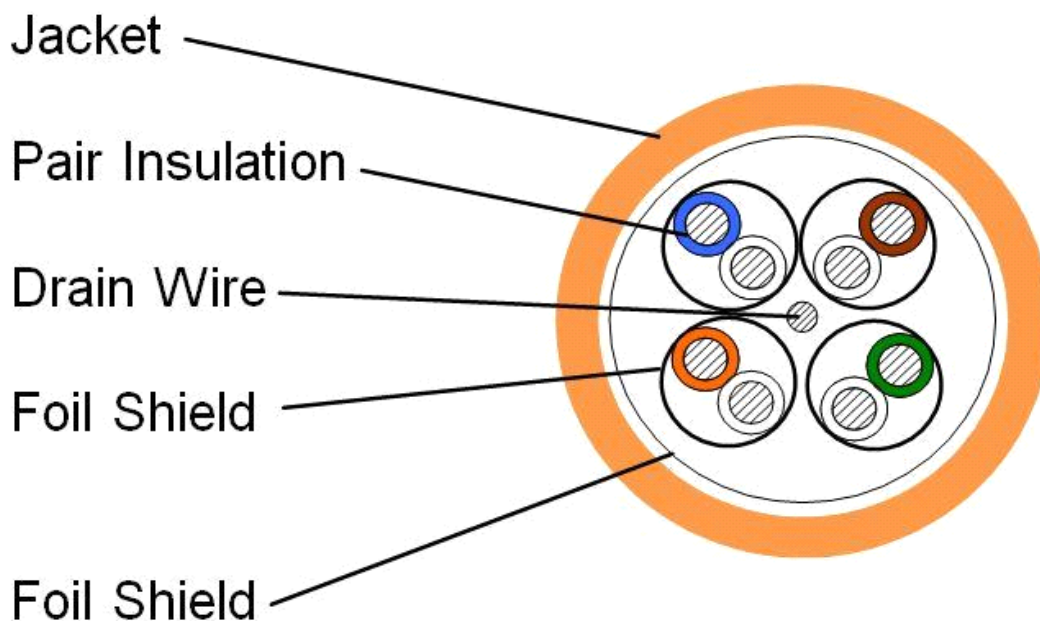
Product Classification

Portfolio	NETCONNECT®
Product Type	Twisted pair cable
Regional Availability	EMEA

Standards And Qualifications

EN50575 CPR Cable EuroClass	B2ca s1a d1 a1
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Cross Section Drawing



Construction Materials

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

Dimensions

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

Electrical Performance

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

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

Environmental Specifications

Environmental Space	Low Smoke Zero Halogen (LSZH)
Smoke Test Method	IEC 61034-2
Acid Gas Test Method	EN 50267-2-3
Installation Temperature	0 °C to +50 °C (+32 °F to +122 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)

General Specifications

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

Mechanical Specifications

Pulling Tension, maximum	11 kg 25 lb
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Regulatory Compliance/Certifications

Agency	Classification
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

