

CS54ZC Category 7 F/FTP Cable, low smoke zero halogen, orange jacket, 4 pair count, 1640 ft (500 m) length, reel

OBSOLETE

This product was discontinued on: October 1, 2024

Replaced By:

884038058/16 CS54ZB Category 7 F/FTP Cable, low smoke zero halogen, orange jacket, 4 pair count, CS54ZB ORG C7 4/23 F/FTP RL 500M 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, singlesSolidConductors, quantity8

Jacket Color Orange

NoteAll 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

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Jacket Thickness

0.635 mm | 0.025 in

Conductor Gauge, singles

23 AWG

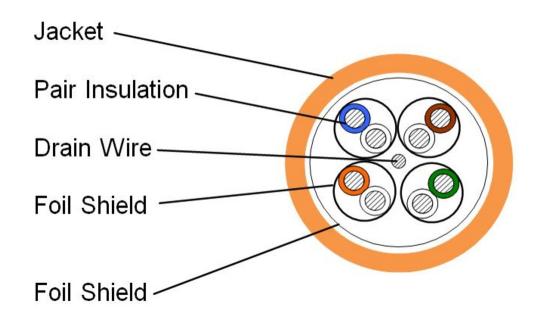
Type Ib

2 %

80 %

Н

Cross Section Drawing



Electrical Specifications

Coupling Attenuation

dc Resistance Unbalance, maximum

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dc Resistance, maximum7.61 ohms/100 m2.32 ohms/100 ft

Mutual Capacitance at Frequency 4.2 nF/100 m @ 1 kHz

Nominal Velocity of Propagation (NVP)

Operating Frequency, maximum 600 MHz

Segregation Class

Transfer Impedance Grade 2

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Flectrical Cable Performance

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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 STD | NEXT | PSNEXT STD | ACRF | PSACRF STD | RL 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 $-20 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \, (-4 \,^{\circ}\text{F to } +140 \,^{\circ}\text{F})$

Acid Gas Test Method EN 50267-2-3

EN50575 CPR Cable EuroClass Fire PerformanceCcaEN50575 CPR Cable EuroClass Smoke Ratings1EN50575 CPR Cable EuroClass Droplets Ratingd1EN50575 CPR Cable EuroClass Acidity Ratinga1

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

Packaging Type Reel

Regulatory Compliance/Certifications

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



