884021358/16 | CS54ZC WHT C7 4/23 S/FTP RL 500M



CS54ZC Category 7 S/FTP Cable, low smoke zero halogen, white jacket, 4 pair count, 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 | S/FTP (shielded) |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |
| Jacket Color | White |
| Note | All 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 |
| Jacket Thickness | 0.635 mm 0.025 in |
| Conductor Gauge, singles | 23 AWG |

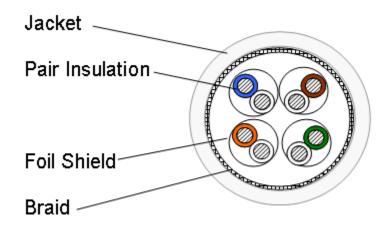
Cross Section Drawing

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Electrical Specifications

| dc Resistance Unbalance, maximum | 2 % |
|---------------------------------------|------------------------------------|
| dc Resistance, maximum | 7.61 ohms/100 m 2.32 ohms/100 ft |
| Dielectric Strength, minimum | 2500 Vdc |
| 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 |
| Segregation Class | d |

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Electrical Cable Performance

| CS | CommScope | | |
|--------|---|--------|---|
| STD | Refers to the standard value listed under Transmission Standards in the Electrical Specifications above | | |
| ТҮР | 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. | L | NEXT | PSNEXT | ACRF | PSACRF | RL |
|------------|------|------|--------|------|--------|------|
| MHz STD | STD | STD | 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 °C to +60 °C (-4 °F to +140 °F) |
| Acid Gas Test Method | EN 50267-2-3 |
| EN50575 CPR Cable EuroClass Fire Performance | Сса |
| EN50575 CPR Cable EuroClass Smoke Rating | s1 |
| 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 | 56.997 kg/km 38.3 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 |
| | |

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