

CS44Z1 Category 6A, F/UTP Cable, low smoke zero halogen, white jacket, 4 pair count, 1000 ft (305 m) length reel

Product Classification

| | |
|-----------------------|--|
| Regional Availability | Asia Australia/New Zealand China India Latin America |
| Portfolio | NETCONNECT® |
| Product Type | Twisted pair cable |

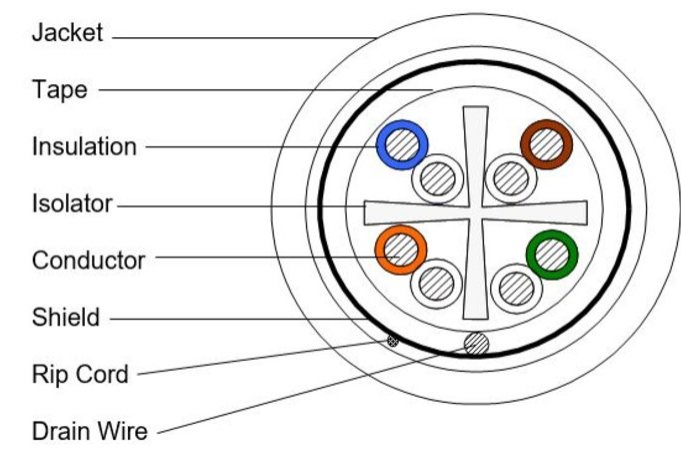
General Specifications

| | |
|-------------------------|--|
| Product Number | CS44Z1 |
| ANSI/TIA Category | 6A |
| Cable Component Type | Horizontal |
| Cable Type | F/UTP (shielded) |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |
| Drain Wire Type | Solid |
| Jacket Color | White |
| Note | All electrical transmission tests include swept frequency measurements |
| Pairs, quantity | 4 |
| Separator Type | Isolator |
| Transmission Standards | ANSI/TIA-568.2-D ISO/IEC 11801 Class EA |

Dimensions

| | |
|-----------------------------------|---------------------|
| Cable Length | 304.8 m 1000 ft |
| Diameter Over Insulated Conductor | 1.14 mm 0.045 in |
| Diameter Over Jacket, nominal | 7.188 mm 0.283 in |
| Conductor Gauge, singles | 23 AWG |
| Drain Wire Gauge | 26 AWG |

Cross Section Drawing



Electrical Specifications

| | |
|---------------------------------------|---|
| Characteristic Impedance | 100 ohm |
| Characteristic Impedance Tolerance | ±15 ohm |
| dc Resistance, maximum | 7.8 ohms/100 m 2.377 ohms/100 ft |
| Delay Skew, maximum | 45 ns |
| Dielectric Strength, minimum | 1500 Vac 2500 Vdc |
| Mutual Capacitance at Frequency | 5.6 nF/100 m @ 1 kHz |
| Nominal Velocity of Propagation (NVP) | 69 % |
| Operating Frequency, maximum | 500 MHz |
| Operating Voltage, maximum | 80 V |
| Propagation Delay, maximum | 536 ns/100m @500MHz |
| Remote Powering | Fully complies with the recommendations set forth by IEEE 802.3bt (Type 4) for the safe delivery of power over LAN cable when installed according to ISO/IEC 14763-2, CENELEC EN 50174-1, CENELEC EN 50174-2 or TIA TSB-184-A |
| Segregation Class | c |

Electrical Cable Performance

| | | | |
|--------|---|--------|---|
| CS | CommScope | | |
| 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 | NEXT | ACR | PSNEXT | PSACR | ACRF | PSACRF | RL |
|--------------|------|------|-------|--------|-------|------|--------|------|
| | STD | STD | STD | STD | STD | STD | STD | STD |
| 1 | 2.1 | 75.3 | 73.2 | 72.3 | 70.2 | 68 | 65 | 20 |
| 4 | 3.8 | 66.3 | 62.5 | 63.3 | 59.5 | 56 | 53 | 23 |
| 8 | 5.3 | 61.8 | 56.4 | 58.8 | 53.4 | 49.9 | 46.9 | 24.5 |
| 10 | 5.9 | 60.3 | 54.4 | 57.3 | 51.4 | 48 | 45 | 25 |
| 16 | 7.5 | 57.2 | 49.8 | 54.2 | 46.8 | 43.9 | 40.9 | 25 |
| 20 | 8.4 | 55.8 | 47.4 | 52.8 | 44.4 | 42 | 39 | 25 |
| 25 | 9.4 | 54.3 | 45 | 51.3 | 42 | 40 | 37 | 24.3 |
| 31.25 | 10.5 | 52.9 | 42.4 | 49.9 | 39.4 | 38.1 | 35.1 | 23.6 |
| 62.5 | 15 | 48.4 | 33.4 | 45.4 | 30.4 | 32.1 | 29.1 | 21.5 |
| 100 | 19.1 | 45.3 | 26.2 | 42.3 | 23.2 | 28 | 25 | 20.1 |
| 155 | 24.1 | 42.4 | 18.4 | 39.4 | 15.4 | 24.2 | 21.2 | 18.8 |
| 200 | 27.6 | 40.8 | 13.2 | 37.8 | 10.2 | 22 | 19 | 18 |
| 250 | 31.1 | 39.3 | 8.3 | 36.3 | 5.3 | 20 | 17 | 17.3 |
| 300 | 34.3 | 38.1 | 3.9 | 35.1 | 0.9 | 18.5 | 15.5 | 16.8 |
| 350 | 37.2 | 37.1 | -0.1 | 34.1 | -3.1 | 17.1 | 14.1 | 16.3 |
| 400 | 40.1 | 36.3 | -3.8 | 33.3 | -6.8 | 16 | 13 | 15.9 |
| 500 | 45.3 | 34.8 | -10.4 | 31.8 | -13.4 | 14 | 11 | 15.2 |

Material Specifications

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|------------------------|-------------------------------|
| Conductor Material | Bare copper |
| Insulation Material | Polyolefin |
| Jacket Material | Low Smoke Zero Halogen (LSZH) |
| Shield (Tape) Material | Aluminum/Polyester |

Mechanical Specifications

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|--------------------------|----------------------------------|
| Minimum Bend Radius Note | 8 times the outer cable diameter |
| Pulling Tension, maximum | 11.34 kg 25 lb |

Environmental Specifications

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| Installation temperature | 0 °C to +60 °C (+32 °F to +140 °F) |
| Operating Temperature | -20 °C to +75 °C (-4 °F to +167 °F) |
| Acid Gas Test Method | IEC 60754-2 |
| EN50575 CPR Cable EuroClass Fire Performance | No Rating |
| Environmental Space | Low Smoke Zero Halogen (LSZH) |
| Temperature Rating, UL | 75 °C 167 °F |
| Flame Test Method | IEC 60332-1 |
| Smoke Test Method | IEC 61034-2 |

Packaging and Weights

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| Packaging Type | Reel |
|----------------|------|

Regulatory Compliance/Certifications

| Agency | Classification |
|------------|---|
| CHINA-ROHS | Below maximum concentration value |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

