

CS41ZB, ETL Verified Category 6A U/UTP Cable, low smoke zero halogen, blue jacket, 4 pair count, 1640 ft (500 m) length reel (EMEA)

Product Classification

| | |
|------------------------------|--------------------|
| Regional Availability | EMEA |
| Portfolio | NETCONNECT® |
| Product Type | Twisted pair cable |

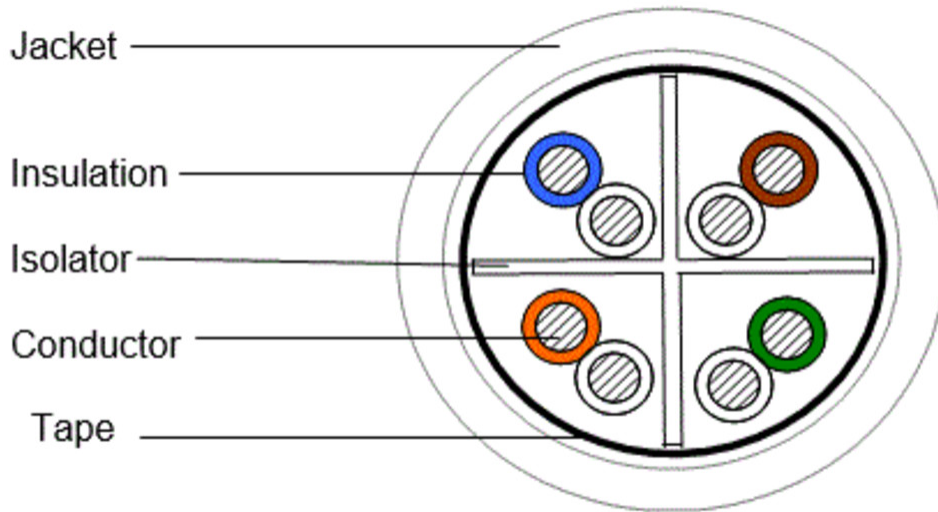
General Specifications

| | |
|--------------------------------|---|
| Product Number | CS41ZB |
| ANSI/TIA Category | 6A |
| Cable Component Type | Horizontal |
| Cable Type | U/UTP (unshielded) |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |
| Jacket Color | Blue |
| Pairs, quantity | 4 |
| Separator Type | Isolator |
| Transmission Standards | ANSI/TIA-568.2-D IEC 61156-5 ISO/IEC 11801 Class EA |

Dimensions

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|--|---------------------|
| Cable Length | 500 m 1,640.42 ft |
| Diameter Over Insulated Conductor | 1.08 mm 0.043 in |
| Diameter Over Jacket, nominal | 6.985 mm 0.275 in |
| Jacket Thickness | 0.508 mm 0.02 in |
| Conductor Gauge, singles | 24 AWG |

Cross Section Drawing



Electrical Specifications

| | |
|--|---|
| dc Resistance Unbalance, maximum | 4 % |
| dc Resistance, maximum | 8 ohms/100 m 2.438 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) | 68 % |
| Operating Frequency, maximum | 500 MHz |
| Operating Voltage, maximum | 80 V |
| 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 |
| Safety Voltage Rating | 300 V |
| Segregation Class | b |

Electrical Cable Performance

| | | | |
|---------------|---|---------------|---|
| CS | CommScope | NEXT | Near End Crosstalk (dB/100m) |
| STD | Refers to the standard value listed under Transmission Standards in the Electrical Specifications above | PSNEXT | Power Sum Near End Crosstalk (db/100m) |
| TYP | Typical Electrical Performance | ACRF | Attenuation to Crosstalk Ratio - Far End (dB/100m) |
| IL | Insertion Loss (dB/100m) | RL | Return Loss (dB) |
| ACR | Attenuation to Crosstalk Ratio (dB/100m) | ELTCTL | Equal Level Transverse Conversion Transfer Loss (dB/100m) |
| PSACR | Power Sum Attenuation to Crosstalk Ratio (dB/100m) | | |
| PSACRF | Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m) | | |
| TCL | Transverse Conversion 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 | 55.9 | 53 | 23 |
| 8 | 5.3 | 61.7 | 56.4 | 58.7 | 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 | 49.7 | 54.2 | 46.7 | 43.9 | 40.9 | 25 |
| 20 | 8.4 | 55.8 | 47.4 | 52.8 | 44.4 | 42 | 39 | 25 |
| 25 | 9.4 | 54.3 | 44.9 | 51.3 | 41.9 | 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 | 18.3 | 39.4 | 15.3 | 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 | 18.4 | 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 | 15.9 | 13 | 15.9 |
| 500 | 45.3 | 34.8 | -10.5 | 31.8 | -13.5 | 14 | 11 | 15.2 |

Material Specifications

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|----------------------------|--|
| Conductor Material | Bare copper |
| Insulation Material | Polyolefin |
| Jacket Material | Low Smoke Fire Retardant Zero Halogen (LSFRZH) |
| Separator Material | Polyolefin |
| Tape Material | Poly/Aluminum/Poly |

Mechanical Specifications

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 +60 °C (-4 °F to +140 °F) |
| Acid Gas Test Method | IEC 60754-2 |
| EN50575 CPR Cable EuroClass Fire Performance | B2ca |
| EN50575 CPR Cable EuroClass Smoke Rating | s1a |
| EN50575 CPR Cable EuroClass Droplets Rating | d0 |
| EN50575 CPR Cable EuroClass Acidity Rating | a1 |
| Environmental Space | Low Smoke Zero Halogen (LSZH) |
| Flame Test Method | EN 50399 IEC 60332-3-22 |
| Smoke Test Method | IEC 61034-2 |

Packaging and Weights

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|-----------------------|-----------------------------|
| Cable weight | 44.451 kg/km 29.87 lb/kft |
| Packaging Type | Reel |