

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

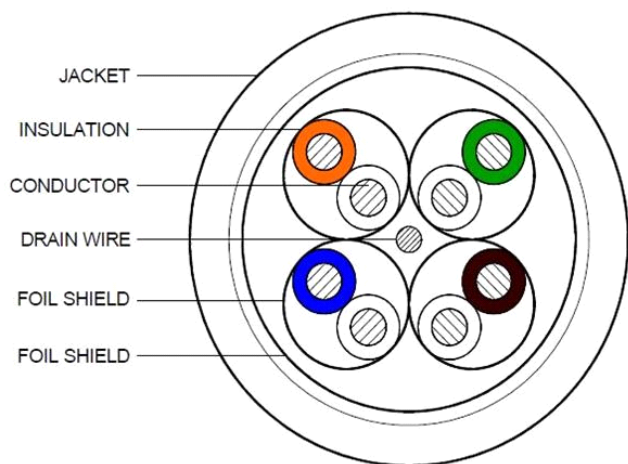
Product Classification

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

Standards And Qualifications

EN50575 CPR Cable EuroClass Cca | s1 | d1 | a1

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 | 1000 m 3280 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 | White |
| Product Number | CS54ZC |
| Conductor Gauge, singles | 23 AWG |
| Conductor Type, singles | Solid |
| Conductors, quantity | 8 |

Mechanical Specifications

| | |
|---------------------------------|---------------|
| Pulling Tension, maximum | 11 kg 25 lb |
|---------------------------------|---------------|

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 |

