



Copper Cable, category 7, 4 pair simplex, S/FTP, LSFRZH, XG, 23 AWG solid, 500 m, white

## Product Classification

**Regional Availability** Asia | Australia/New Zealand | EMEA | Latin America

**Portfolio** NETCONNECT®

**Product Type** Twisted pair cable

## General Specifications

|                                |   |
|--------------------------------|---|
| <b>ANSI/TIA Category</b>       | 7   |
| <b>Cable Component Type</b>    | Horizontal  |
| <b>Cable Type</b>              | S/FTP (shielded)  |
| <b>Conductor Type, singles</b> | Solid   |
| <b>Conductors, quantity</b>    | 8   |
| <b>Jacket Color</b>            | White   |
| <b>Pairs, quantity</b>         | 4   |
| <b>Transmission Standards</b>  | ANSI/TIA-568.2-D   CENELEC EN 50288-4-1   ISO/IEC 11801 Class F |

## Dimensions

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Cable Length</b>                  | 1,640.42 ft   500 m |
| <b>Diameter Over Conductor</b>       | 0.059 in   1.501 mm |
| <b>Diameter Over Jacket, nominal</b> | 0.287 in   7.29 mm  |
| <b>Conductor Gauge, singles</b>      | 23 AWG              |

## Electrical Specifications

|   |                                   |
|---|-----------------------------------|
| <b>Characteristic Impedance</b>           | 100 ohm                           |
| <b>Characteristic Impedance Tolerance</b> | ±15 ohm                           |
| <b>Coupling Attenuation</b>               | Type I                            |
| <b>dc Resistance, maximum</b>             | 15 ohms/100 m   4.572 ohms/100 ft |

|  |      |
|--|------|
| <b>Delay Skew, maximum</b>                   | 7 ns |
| <b>Nominal Velocity of Propagation (NVP)</b> | 80 % |
| <b>Operating Voltage, maximum</b>            | 80 V |
| <b>Segregation Class</b>                     | d    |

## Electrical Performance

| <b>Freq (MHz)</b> | <b>Att</b> | <b>ACR</b> | <b>PSNEXT</b> |      | <b>PSELFEXT</b> | <b>RL</b> |      |
|-------------------|------------|------------|---------------|------|-----------------|-----------|------|
|                   | Typ.       | Typ.       | Min.          | Typ. | Min.            | Min.      | Typ. |
| 1                 | 2.0        | 94         | 75            | 93   | 75              | 20        | 26   |
| 4                 | 3.6        | 92         | 75            | 93   | 75              | 23        | 30   |
| 10                | 5.9        | 90         | 75            | 93   | 75              | 25        | 33   |
| 16                | 7.4        | 88         | 75            | 93   | 73              | 25        | 33   |
| 20                | 8.3        | 87         | 75            | 93   | 71              | 25        | 33   |
| 31.25             | 10         | 86         | 75            | 93   | 67              | 25        | 33   |
| 62.5              | 14         | 82         | 72.5          | 93   | 61              | 25        | 33   |
| 100               | 18         | 78         | 69.4          | 93   | 57              | 23        | 33   |
| 200               | 26         | 67         | 64.9          | 90   | 51              | 21        | 29   |
| 250               | 28         | 64         | 63.4          | 89   | 49              | 20        | 28   |
| 300               | 33         | 57         | 62.2          | 87   | 47              | 20        | 27   |
| 450               | 39         | 39         | 59.6          | 85   | 44              | 19        | 26   |
| 600               | 46         | 34         | 57.7          | 77   | 36              | 18        | 25   |
| 750*              | 52         | 28         | -             | 75   | 34              | -         | 24   |
| 900*              | 55         | 17         | -             | 72   | 32              | -         | 23   |
| 1000*             | 57         | 15         | -             | 70   | 30              |           | 20   |

\* For engineering purposes only (data above 600 MHz)

## Material Specifications

|                               |  |
|-------------------------------|--|
| <b>Conductor Material</b>     | Bare copper                                    |
| <b>Insulation Material</b>    | Polyolefin                                     |
| <b>Jacket Material</b>        | Low Smoke Fire Retardant Zero Halogen (LSFRZH) |
| <b>Shield (Tape) Material</b> | Aluminum/Polyester                             |

## Environmental Specifications

|   |                                     |
|---|-------------------------------------|
| <b>Installation temperature</b>                     | 0 °C to +50 °C (+32 °F to +122 °F)  |
| <b>Operating Temperature</b>                        | -20 °C to +60 °C (-4 °F to +140 °F) |
| <b>EN50575 CPR Cable EuroClass Fire Performance</b> | Dca                                 |
| <b>EN50575 CPR Cable EuroClass Smoke Rating</b>     | s2                                  |
| <b>EN50575 CPR Cable EuroClass Droplets Rating</b>  | d1                                  |
| <b>EN50575 CPR Cable EuroClass Acidity Rating</b>   | a1                                  |

## Packaging and Weights

|                       |      |
|-----------------------|------|
| <b>Packaging Type</b> | Reel |
|-----------------------|------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| CENELEC       | EN 50575 compliant, Declaration of Performance (DoP) available   |
| CHINA-ROHS    | Below maximum concentration value  |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |

