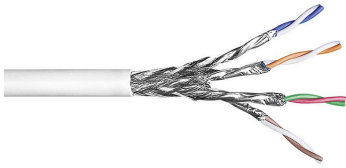


# 57893-3 | CS54Z3 WHT C7 4/23 S/FTP RL 305M



Copper Cable, category 7, 4 pair simplex, S/FTP, LSFRZH, XG, 23 AWG solid, 305 m, white

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   Latin America |
| <b>Portfolio</b>             | NETCONNECT®   |
| <b>Product Type</b>          | 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>  | CENELEC EN 50288-4-1   IEC 61156-5 Cat 7   ISO/IEC 11801 Class F |

## Dimensions

|  |                     |
|--|---------------------|
| <b>Cable Length</b>                      | 304.8 m   1000 ft   |
| <b>Diameter Over Insulated Conductor</b> | 1.501 mm   0.059 in |
| <b>Diameter Over Jacket, nominal</b>     | 7.29 mm   0.287 in  |
| <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>                | 7.61 ohms/100 m   2.32 ohms/100 ft |
| <b>Delay Skew, maximum</b>                   | 7 ns                               |
| <b>Nominal Velocity of Propagation (NVP)</b> | 80 %                               |

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|                                     |         |
|-------------------------------------|---------|
| <b>Operating Frequency, maximum</b> | 600 MHz |
| <b>Operating Voltage, maximum</b>   | 80 V    |
| <b>Segregation Class</b>            | d       |
| <b>Transfer Impedance</b>           | Grade 1 |

## Electrical Cable Performance

|               |   |               |   |
|---------------|---|---------------|---|
| <b>CS</b>     | CommScope   | <b>NEXT</b>   | Near End Crosstalk (dB/100m)                              |
| <b>STD</b>    | Refers to the standard value listed under Transmission Standards in the Electrical Specifications above | <b>PSNEXT</b> | Power Sum Near End Crosstalk (db/100m)                    |
| <b>TYP</b>    | Typical Electrical Performance  | <b>ACRF</b>   | Attenuation to Crosstalk Ratio - Far End (dB/100m)        |
| <b>IL</b>     | Insertion Loss (dB/100m)  | <b>RL</b>     | Return Loss (dB)  |
| <b>ACR</b>    | Attenuation to Crosstalk Ratio (dB/100m)  | <b>ELTCTL</b> | Equal Level Transverse Conversion Transfer Loss (dB/100m) |
| <b>PSACR</b>  | Power Sum Attenuation to Crosstalk Ratio (dB/100m)  |               |   |
| <b>PSACRF</b> | Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)  |               |   |
| <b>TCL</b>    | Transverse Conversion Loss (dB/100m)  |               |   |

| Freq. MHz | IL  | ACR | PSNEXT |     | PSACRF | RL  |     |
|-----------|-----|-----|--------|-----|--------|-----|-----|
|           | TYP | TYP | STD    | TYP | STD    | STD | TYP |
| 1         | 2   | 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  |
| 1,000     | 57  | 15  |        | 70  | 30     |     | 20  |

## 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) |
|---------------------------------|------------------------------------|

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|   |                                     |
|---|-------------------------------------|
| <b>Operating Temperature</b>                        | -20 °C to +60 °C (-4 °F to +140 °F) |
| <b>Acid Gas Test Method</b>                         | IEC 60754-2                         |
| <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>  | d2                                  |
| <b>EN50575 CPR Cable EuroClass Acidity Rating</b>   | a1                                  |
| <b>Flame Test Method</b>                            | IEC 60332-3-22                      |
| <b>Smoke Test Method</b>                            | IEC 61034-2                         |

## 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  |
| UK-ROHS       | Compliant  |

