

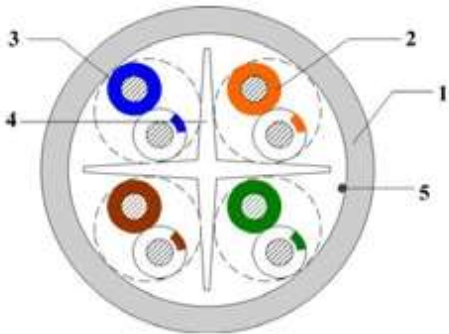
**PRODUCT DATASHEET: CATEGORY 6 U/UTP 4 PAIR 23 AWG FR-LSZH
UV PROTECTED**

| Description |
|--|
| <ul style="list-style-type: none"> Rated temperature: 70 °C Reference standard: EIA/TIA 568-C and IEC/ISO 11801 Product standard certification: Solid bare copper conductor Color-coded PE insulation |

| Application |
|---|
| <ul style="list-style-type: none"> Enhanced performance cable for transmission of high-speed data, digital and analogue voice and video (RGB) signals on LANs. Supports Gigabit Ethernet (1000 BASET) standard. Operates at bandwidth of 250MHz. |

Product Figure

Physical Characteristics



1 – Jacket
2 – Insulation
3 - Conductor
4 – Filler
5 – Rip cord

| | | |
|-----------------------------------|-------------------------------------|--------------------------------|
| Insulation | Construction | U/UTP |
| | Number of pairs | 4Pair |
| | AWG | 23 AWG |
| | Solid or stranded; bare or tinned | Solid bare copper |
| Filler | Insulation Material | HDPE |
| | Number colour (stripe marking) | 1.Blue, White/Blue(stripe) |
| | | 2.Orange, White/Orange(stripe) |
| | | 3.Green, White/Green(stripe) |
| 4.Brown, White/Brown(stripe) | | |
| Outer jacket | Filler | YES |
| | Outer jacket material | FR-LSZH UV Protected |
| | Overall dimension | 5.9 +/- 0.3 mm |
| | Outer jacket rip cord | Yes |
| Mechanical | Outer jacket colour | Grey RAL7035 |
| | Operating temp. range | -20 °C ~ +70 °C |
| Electrical characteristics | Nom. mutual capacitance | <=5.6 nF/100m @1KHz |
| | Capacitance Unbalance Pair/Ground | 330 pF/100m Max |
| | Max. capacitance unbalance | <=330 pF/100m |
| | Nominal velocity of propagation | 69% |
| | Max. delay skew | 45 ns/100m |
| | Propagation Delay Skew | 536 ns/100m |
| | Impedance | 100±15%Ω |
| | Max. conductor resistance | 93.8Ω/km (@ 20 °C) |
| | Max. conductor resistance unbalance | <=5% (@ 20 °C) |

• For additional information please contact your sales representative
• CISFIBER Infra Solutions Pvt. Ltd. reserves the right to make changes in this datasheet at any time without notice

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Transmission Characteristic per 100m

| Frequency (MHz) | IL (dB) | NEXT (dB) | Return Loss (dB) | PSNEXT (dB) | ACRF (dB) | PSACRF (dB) |
|-----------------|---------|-----------|------------------|-------------|-----------|-------------|
| 1 | 2.1 | 65 | 19.0 | 62 | 63.3 | 60.3 |
| 4 | 4.0 | 63 | 19.0 | 60.5 | 51.2 | 48.2 |
| 8 | 5.7 | 58.2 | 19.0 | 55.6 | 45.2 | 42.2 |
| 10 | 6.3 | 56.6 | 19.0 | 54.0 | 43.3 | 40.3 |
| 16 | 8.0 | 53.2 | 18.0 | 50.6 | 39.2 | 36.2 |
| 20 | 9.0 | 51.6 | 17.5 | 49.0 | 37.2 | 34.2 |
| 25 | 10.1 | 50.0 | 17.0 | 47.3 | 35.3 | 32.3 |
| 31.25 | 11.4 | 48.4 | 16.5 | 45.7 | 33.4 | 30.4 |
| 62.5 | 16.5 | 43.4 | 14.0 | 40.6 | 27.3 | 24.3 |
| 100 | 21.3 | 39.9 | 12.0 | 37.1 | 23.3 | 20.3 |
| 200 | 31.5 | 34.8 | 9.0 | 31.9 | 17.2 | 14.2 |
| 250 | 35.9 | 33.1 | 8.0 | 30.2 | 15.3 | 12.3 |

Cable Printing details:

CISNET CAT6 4PR 23AWG OUTDOOR FR-LSZH UV TIA-568-C.2 <cable PN> RoHS COMPLIANT <month/year> <batch number> XXX m

Ordering Guide

| Part Number | Description |
|-------------|--|
| UC211611 | CISNET™ CATEGORY 6 U/UTP 4P 23 AWG FR-LSZH UV Protected GREY CABLE 305m IN BOX |

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