

U6-H0423-WH

Description

Osilan's Cat6 cable solutions are flexible and cost-effective solutions that fully comply with category 6/ Class E standards. Cat6 cables are available in U/UTP, F/UTP, SF/UTP shielded cable and with PVC or LSZH sheath, ideal for most of today's LAN network requirements and specifications with designs that support 350 MHz applications.

Features

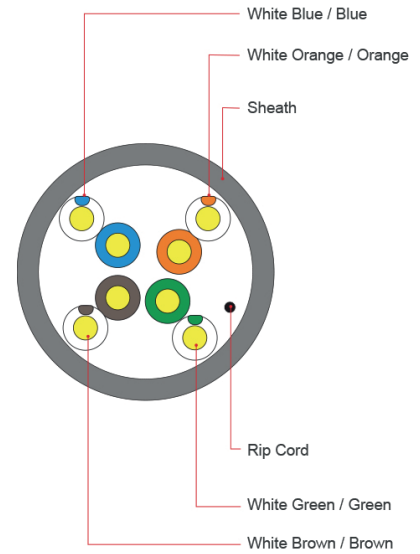
- Category 6 U/UTP copper cable with channel characterized to 350 MHz.
- 4 Pairs, 23 AWG solid copper conductors insulated with PE.
- Supports IEEE 802.bt type 3,4 & PoE++ Standards.
- LSZH Sheath.
- 25-years system warranty

Application

- Suitable for all category 6 backbone and horizontal Cabling applications.
- 10 Base-T (Ethernet), 100 Base-T (Fast Ethernet), 1000 Base-T (Gigabit Ethernet).
- 155Mb/s ATM, 622Mb/s ATM, 1.2Gb/s ATM, Token Ring 4/16 & ISDN.

Standards

- ANSI/TIA-568-C.2 Category 6
- EN 50288-3-1
- UL444
- ISO 11801 2nd Edition
- IEC 60332-1
- UL1581
- EN 50173
- IEC 60332-3C
- UL1666



Technical Specifications

| | |
|----------------------------|---------------------------------|
| Tensile Strength | Min. 5MPa |
| Cable Outer Diameter | 6.2mm(+/-0.4mm) |
| Insulation | HDPE, Thickness 0.22mm(Nominal) |
| Cable Weight | 14.9 Kg/Km (Nominal) |
| Temperature (Installation) | 0°C to +60°C |
| Temperature (Operation) | -20°C to +75°C |

Mechanical and Electrical Specification

| | |
|---------------------------------|--|
| Bend radius Installation | 49.6mm |
| DC resistance | Max. 9.38 Ω/100m at 20° C |
| Insulation resistance | Min. 5000 MΩ/Km at 20° C |
| Mutual capacitance Nom | 5.1 nf/100 m at 1kHz |
| Capacitance unbalance | (pair to ground) Max. 160 pF/100 m at 1kHz |
| Characteristic impedance | (1 - 100MHz) (100 ± 15) Ω |
| Nominal velocity of propagation | 69% |
| Dielectric Test voltage | (DC, 1 min.) 1 kV/1 min. |
| Delay Skew | 45 ns/100 m (Max.) |

| Frequency (MHz) | RL ≥ dB | ATT(20°C) ≤ dB | NEXT ≥ dB | PHASE DELAY ≤ ns |
|-----------------|---------|----------------|-----------|------------------|
| 1 | 20.0 | - | 74.3 | 570.00 |
| 4.0 | 23.0 | 3.8 | 65.3 | 552.00 |
| 8.0 | 24.5 | 5.32 | 60.8 | 546.73 |
| 10.0 | 25.0 | 5.95 | 59.3 | 545.38 |
| 16.0 | 25.0 | 7.55 | 56.2 | 543.00 |
| 20.0 | 25.0 | 8.47 | 54.8 | 542.05 |
| 25.0 | 24.3 | 9.51 | 53.3 | 541.20 |
| 31.25 | 23.6 | 10.67 | 51.9 | 540.44 |
| 62.5 | 21.5 | 15.38 | 47.7 | 538.55 |
| 100 | 20.1 | 19.80 | 44.3 | 537.60 |
| 200 | 18.0 | 28.98 | 39.8 | 536.54 |
| 250 | 17.3 | 32.85 | 38.3 | 536.27 |

| Frequency (MHz) | PSNEXT ≥ dB | ELFEXT ≥ dB | PSELFEXT ≥ dB |
|-----------------|-------------|-------------|---------------|
| 1 | 72.3 | 67.8 | 64.8 |
| 4.0 | 63.3 | 55.8 | 52.8 |
| 8.0 | 58.8 | 49.7 | 46.7 |
| 10.0 | 57.3 | 47.8 | 44.8 |
| 16.0 | 54.2 | 43.7 | 40.7 |
| 20.0 | 52.8 | 41.8 | 38.8 |
| 25.0 | 51.3 | 39.8 | 36.8 |
| 31.25 | 49.9 | 37.9 | 34.9 |
| 62.5 | 45.1 | 31.9 | 28.9 |
| 100 | 42.3 | 27.8 | 24.8 |
| 200 | 37.8 | 21.8 | 18.8 |
| 250 | 36.3 | 19.8 | 16.8 |

ORDERING INFORMATION

| Part No. | Description | Packing |
|-------------|--|----------|
| U6-H0423-WH | Category 6 U/UTP Cables, 4Pairs, 23AWG Solid Copper, LSZH Sheath, Colour White | 305m Box |

* More colours are available.