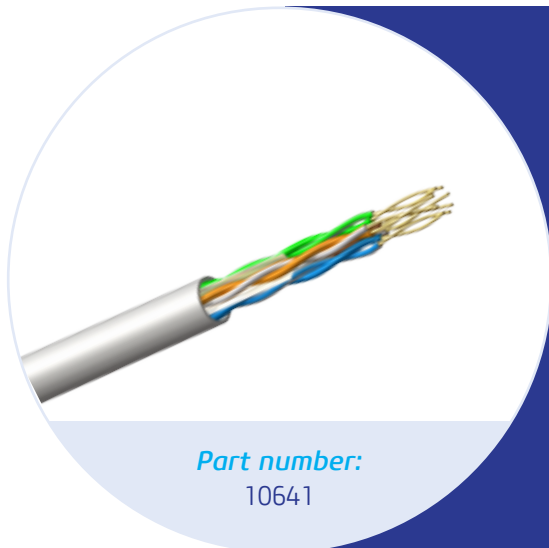


## LadonX™ Category 6

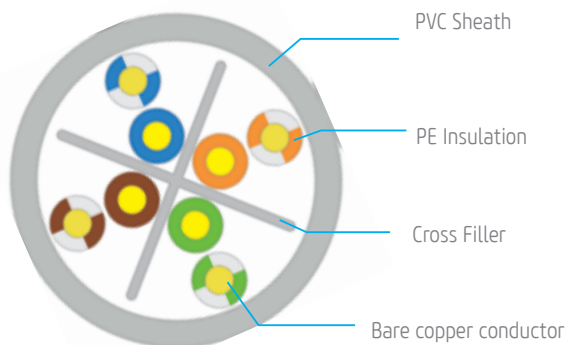
U/UTP 23 AWG PVC Jacket Data Cable



*LadonX™ Cat. 6 U/UTP 4-pair solid data cable is verified to TIA/EIA-568-C.2 and ISO/IEC 11811.*

*The high speed data transmission provide excellent transmission characteristics and is the best solution for Gigabit Ethernet and voice application.*

*The Hermesys unshielded structured cabling system comprises of unshielded modular connectors, patch panels, patch cords and cables.*



*Cross section of part number:*  
< Not to scale >

### Features and Benefits

Transmission performance exceeds standard specifications.

Includes non-metallic cross separator for stronger signal strength.

Support IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-T (fast Ethernet), and 10BASE-T applications.

Suitable also for Analogic video, 155/622Mbps ATM, 1.2Gbps ATM

RoHS Compliant

### Standards

#### Comply

ANSI/TIA 568-C.2  
ISO/IEC 11801  
IEC 61156-5

#### Flame Resistance

IEC 60332-1

# LadonX™ Category 6

## U/UTP 23 AWG PVC Jacket Data Cable

### Cable Description

#### CONDUCTOR & INSULATION

|                          |                      |
|--------------------------|----------------------|
| Conductor Material       | Annealed Bare Copper |
| Conductor Size           | 23 AWG * 4P          |
| Insulation Material      | HDPE                 |
| Insulation Min Thickness | 0.19 mm              |
| Insulation Diameter      | 0.96 ± 0.03mm        |
| Cross Filler             | PE cross separator   |

#### PAIRS

|        |                         |
|--------|-------------------------|
| Pair 1 | Blue / White - Blue     |
| Pair 2 | Orange / White - Orange |
| Pair 3 | Green / White - Green   |
| Pair 4 | Brown / White - Brown   |

#### SHIELDED & JACKET

|                        |              |
|------------------------|--------------|
| Drain Wire             | N/A          |
| Single Pair Shielding  | N/A          |
| Overall Shielding 1    | N/A          |
| Overall Shielding 2    | N/A          |
| Jacket Type            | PVC          |
| Cable Overall Diameter | 6.00 ± 0.3mm |

#### PHYSICAL TECHNICAL DATA

|  |                               |
|--|-------------------------------|
| Cold Bend Test                                     | -20°C x 4hrs No Crack         |
| Dielectric Strength                                | AC 1.5 KV / 2sec              |
| Insulation Min Tension Strength (psi) Before aging | 2400                          |
| Insulation Min Elongation (%) Before aging         | 300                           |
| Jacket Min Tension Strength (psi) Before aging     | 2000                          |
| Jacket Min Elongation (%) Before aging             | 100                           |
| Min. Bending Radius (mm)                           | ≥ 4 times of overall diameter |
| Max Pulling Tension (N)                            | ≤ 110 N                       |
| Installation Temperature                           | 0 °C to 60 °C                 |
| Operating Temperat                                 | -20 °C to 60 °C               |

# LadonX™ Category 6

## U/UTP 23 AWG PVC Jacket Data Cable

### ELECTRICAL TECHNICAL DATA

|  |                                       |
|--|---------------------------------------|
| Conductor Resistance ( $\Omega/100m$ @ 20°C)   | Max. 9.38                             |
| DC Resistance Unbalance (%)                    | Max. 5%                               |
| Pair-to-ground Capacitance Unbalance (pF/100m) | Max. 330                              |
| Velocity of Propagation (%)                    | 62%                                   |
| Input Impedance (ohm)                          | 100 $\pm$ 15 $\Omega$ ( 1 to 250 MHz) |

### IEC 61156-5 ed 2.0 Category 6 Horizontal Cable Parameters

AT 20°C

| Freq. (MHz) | Att. (dB/100m) Max | RL (dB) Min | NEXT (dB/100m) Min | ELFEXT (dB/100m) Min | PS-NEXT (dB/100m) Min | PSELFEXT (dB/100m) Min | Delay Skew (ns/100m) Min | Po. Delay (ns/100) Min |
|-------------|--------------------|-------------|--------------------|----------------------|-----------------------|------------------------|--------------------------|------------------------|
| 1           | -                  | -           | -                  | -                    | -                     | -                      | -                        | -                      |
| 4           | 3.8                | 23.0        | 65.3               | 55.8                 | 63.3                  | 53.0                   | 45                       | 552.0                  |
| 10          | 6.0                | 25.0        | 59.3               | 47.8                 | 57.3                  | 45.0                   | 45                       | 545.4                  |
| 16          | 7.6                | 25.0        | 56.2               | 43.7                 | 54.2                  | 40.9                   | 45                       | 543.0                  |
| 20          | 8.5                | 25.0        | 54.8               | 41.8                 | 52.8                  | 39.0                   | 45                       | 542.0                  |
| 31.25       | 10.7               | 23.6        | 51.9               | 37.9                 | 49.9                  | 35.1                   | 45                       | 540.4                  |
| 62.5        | 15.4               | 21.5        | 47.4               | 31.9                 | 45.4                  | 29.1                   | 45                       | 538.6                  |
| 100         | 19.8               | 20.1        | 44.3               | 27.8                 | 42.3                  | 25.0                   | 45                       | 537.6                  |
| 200         | 29.0               | 18.0        | 39.8               | 21.8                 | 37.8                  | 19.0                   | 45                       | 536.5                  |
| 250         | 32.8               | 17.3        | 38.3               | 19.8                 | 36.3                  | 17.0                   | 45                       | 536.3                  |

### Ordering information

|                |   |
|----------------|---|
| Part Number    | 10641   |
| Sheath Marking | Hermesys LadonX Cat. 6 U/UTP PVC Data Cable 10641<br>ANSI/TIA 568-C.2 ISO/IEC 11801 xxxxM MMY |

### Shipping information

|            |                  |
|------------|------------------|
| 10641-305B | 305m/Box         |
| 10641-500D | 500m/wooden drum |