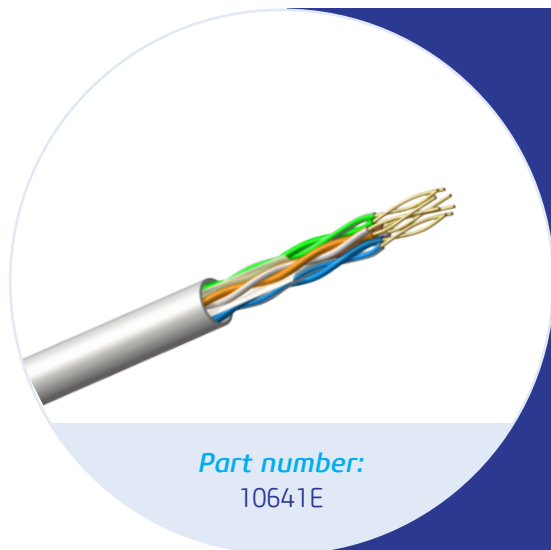


## LadonX™ Category 6

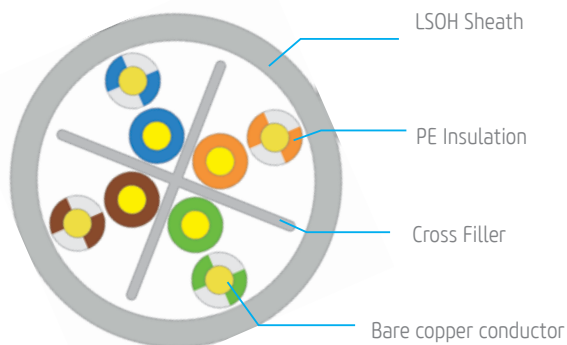
U/UTP 24 AWG LSOH Jacket Data Cable



*LadonX™ Cat. 6 U/UTP 4-pair 24AWG solid data cable is verified to TIA/ EIA-568-C.2*

*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  
IEC 61156-5

#### Flame Resistance

IEC 60332-1  
IEC 60754-1 & -2  
IEC 61034-1 & -2

# LadonX™ Category 6

*U/UTP 24 AWG LSOH Jacket Data Cable*

## Cable Description

### CONDUCTOR & INSULATION

Conductor Material	Annealed Bare Copper
Conductor Size	24 AWG * 4P
Insulation Material	HDPE
Insulation Min Thickness	0.22 mm
Insulation Diameter	0.95 ± 0.05mm
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	N/A
Jacket Type	PVC
Jacket Colour	Grey (RAL 7035)
Cable Overall Diameter	5.70 ± 0.3mm

### PHYSICAL & ELECTRICAL TECHNICAL DATA

Min. Bending Radius (mm)	8 * Cable OD
Max Pulling Tension (N)	≤ 100 N
Installation Temperature	0 °C to 50 °C
Operating Temperat	-20 °C to 60 °C
Velocity of Propagation (%)	69%
Impedance (1-100 MHz)	100 ± 15 Ω
(101-250MHz)	100 ± 22 Ω

# LadonX™ Category 6

*U/UTP 24 AWG LSOH Jacket Data Cable*

## 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	ACRF (dB/100m) Min	PS-NEXT (dB/100m) Min	PS ACRF (dB/100m) Min	Delay Skew (ns/100m) Min
1	2.1	20.0	74.3	67.8	72.3	64.8	-
4	3.8	23.0	65.3	55.8	63.3	52.8	45
10	5.9	25.0	59.3	47.8	57.3	44.8	45
16	7.5	25.0	56.2	43.7	54.2	40.7	45
20	8.4	25.0	54.8	41.8	52.8	38.8	45
31.25	10.7	23.6	51.9	37.9	49.9	34.9	45
62.5	15.4	21.50	47.4	31.9	45.4	28.9	45
100	19.8	20.1	44.3	27.8	42.3	24.8	45
200	29.0	18.0	39.8	21.8	37.8	18.8	45
250	32.8	17.3	38.3	19.8	36.3	16.8	45

### Ordering information

Part Number	10642E
Sheath Marking	Hermesys LadonX Cat. 6 U/UTP 24AWG LSOH Data Cable 10642E ANSI/TIA 568-C.2 xxxxxM MMY

### Shipping information

10642E-305B	305m/Box
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