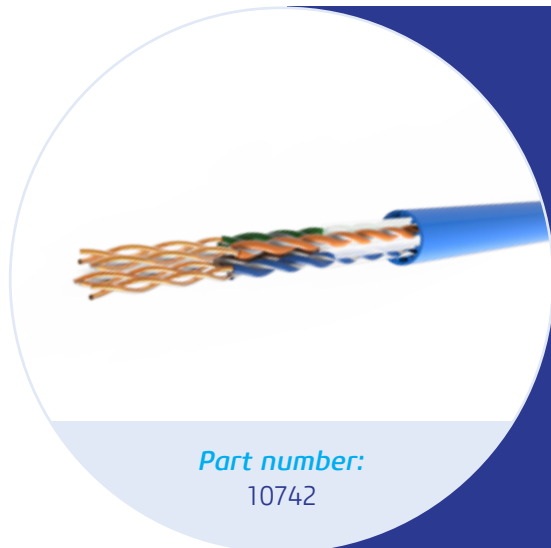


# LadonX™ Category 6A

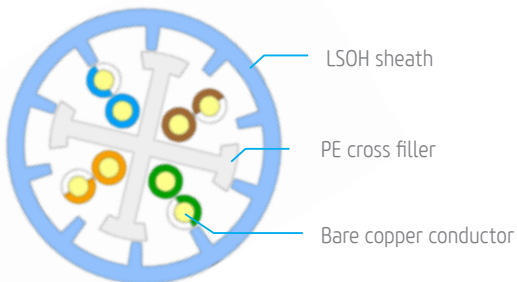
## U/UTP 23AWG LSOH Jacket Data Cable



*LadonX™ series Cat. 6A U/UTP LSOH data cable is for 10 Gigabit Ethernet Cabling System and bandwidth frequency up to 500Mhz.*

*The cable can guarantee the performance maximum network speed and reliability. The special unshielded design can minimise alien crosstalk and meets the performance requirements of international standards.*

*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 Applications

Smooth, round shape for faster and easy installation.

Available for Power Over Ethernet (POE), POE +

Data cable for structured premises cabling, digital/analogue voice, video and data signals.

RoHS Compliant

### Standards

#### Comply

ANSI/TIA 568-C.2  
ISO/IEC 11801  
IEC 61156-5  
EN50173-1

#### Flame Resistance

IEC 60754-2  
IEC 61034-1  
IEC 61034-2

# LadonX™ Category 6A

## U/UTP 23AWG LSOH Jacket Data Cable

### Cable Description

#### CONDUCTOR & INSULATION

Conductor Material	Annealed Bare Copper
Conductor Size	23 AWG
Insulation Material	HDPE
Insulation Min Thickness	0.21 mm
Insulation Diameter	1.03 ± 0.05mm
Cross Filler	PE

#### 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	LSOH
Cable Overall Diameter	8.30 ± 0.3 mm

#### PHYSICAL TECHNICAL DATA

Cold Bend Test	-20 ± 2°C * 4hrs no. crack
Insulation Min Tension Strength (psi) Before Aging	2400
Insulation Min Elongation (%) Before Aging	300
Jacket Min Tension Strength (psi) Before aging	1300
Jacket Min Elongation (%) Before Aging	100
Min. Bending Radius (mm)	≥ 8 * cable diameter
Max Pulling Tension (N)	≤ 100N
Installation Temperature	-10°C ~ 60°C
Operating Temperat	-10°C ~ 60°C

# LadonX™ Category 6A

## U/UTP 23AWG LSOH Jacket Data Cable

### ELECTRICAL TECHNICAL DATA

Conductor Resistance (ohm/100m @ 20 c)	Max. 9.50
DC Resistance Unbalance (%)	Max. 4
Pair-to-ground Capacitance Unbalance (pF/km)	Max. 1600
Velocity of Propagation (%)	66.7%
Input Impedance (ohm)	100 ± 15 Ω ( 1 to 250 MHz)
	100 ± 22 Ω ( 251 to 500 MHz)

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

AT 20°C

Freq. (MHz)	Ins. Loss (dB/100m)	RL (dB) Min	NEXT (dB/100m)	ELFEXT (dB/100m)	PS-NEXT (dB/100m)	PS-ELFEXT (dB/100m) Min	Delay Skew	Po. Delay (ns/100) Min
1	--	20.0	--	--	72.3	--	45	570.0
4	3.8	23.0	66.3	56.0	63.3	53.0	45	552.0
10	5.9	25.0	60.3	48.0	57.3	45.0	45	545.4
16	7.5	25.0	57.2	43.9	54.2	40.9	45	543.0
20	8.4	25.0	55.8	42.0	52.8	39.0	45	542.0
31.25	10.5	23.6	52.9	38.1	49.9	35.1	45	540.4
62.5	15.0	21.5	48.4	32.1	45.4	29.1	45	538.6
100	19.1	20.1	45.3	28.0	42.3	25.0	45	537.6
200	27.6	18.0	40.8	22.0	37.8	19.0	45	536.5
250	31.1	17.3	39.3	20.0	36.3	17.0	45	536.3
300	34.3	17.3	38.1	18.5	35.1	15.5	45	536.1
400	40.1	17.3	36.3	16.0	33.3	13.0	45	535.8
500	45.3	17.3	34.8	14.0	31.8	11.0	45	535.6

### Ordering information

Part Number	10742
Sheath Marking	Hermesys LadonX Cat. 6A U/UTP LSOH Data Cable 10742 ANSI/TIA 568-C.2 ISO/IEC 11801 xxxxM MMY

### Shipping information

10742-500D	500m/wooden drum
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