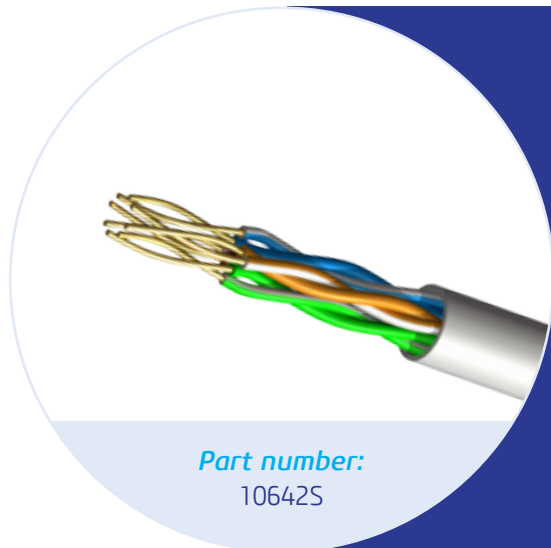


## LadonX™ Category 6

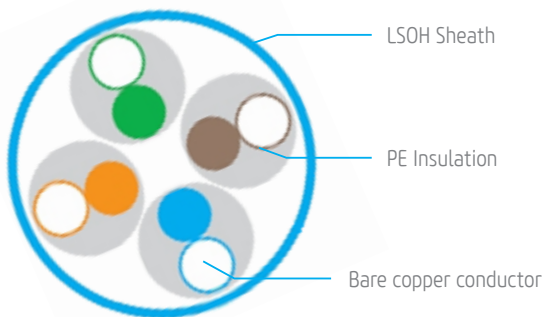
U/UTP 23AWG Super Flex LSOH Jacket Data Cable



Part number:  
10642S

*Hermesys LadonX™ series Super Flex Cat. 6 U/UTP data cable is designed for Gigabit Ethernet and other network protocols.*

*Small overall diameter without PE cross filler which make cable much flexible and easy installation.*



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

### Features and Benefits

Special design without PE cross-filler make overall diameter much smaller and flexible for easy and fast installation.

Small cabler overall diameter save the installation space.

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

RoHS Compliant

### Standards

#### Comply

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

#### Flame Resistance

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

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## U/UTP 23AWG Super Flex LSOH Jacket Data Cable

### Cable Description

#### CONDUCTOR & INSULATION

Conductor Material	Annealed Bare Copper
Conductor Size	23 AWG * 4P
Insulation Material	HDPE
Insulation Min Thickness	0.18 mm
Insulation Diameter	0.96 ± 0.03mm
Cross Filler	N/A

#### 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	5.60 ± 0.2mm

#### 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	1500
Jacket Min Elongation (%) Before aging	150
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

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## 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 (%)	69%
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	ACRF (dB/100m) Min	PS-NEXT (dB/100m) Min	PSACRF (dB/100m) Min	Delay Skew (ns/100m) Min	Po. Delay (ns/100) Min
1	2.0	20.0	74.3	67.8	72.3	65.0	45	570.0
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
25	9.5	24.3	53.3	39.8	51.3	37.0	45	541.2
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	10642S
Sheath Marking	Hermesys LadonX Slim Cat.6 U/UTP LSOH Data Cable 10642S ANSI/TIA 568-C.2 ISO/IEC 11801 xxxxM MMY

## Shipping information

10642S-305B	305m/Box
10642S-500D	500m/wooden drum