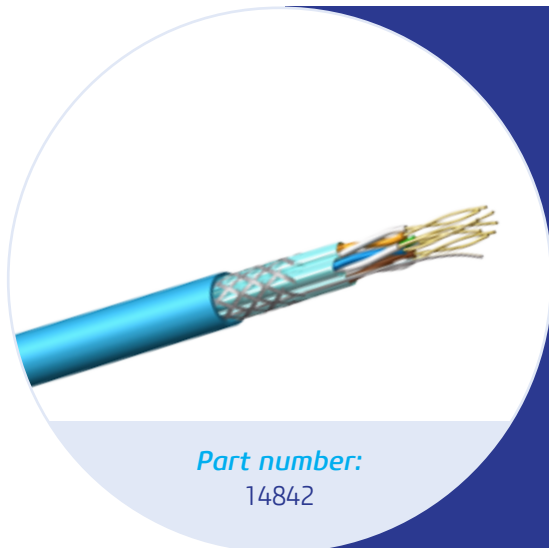


## LadonX™ Category 7

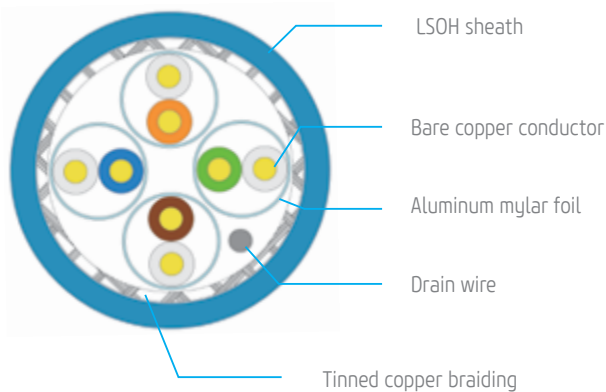
### S/FTP 23AWG LSOH Jacket Data Cable



*LadonX™ series Cat. 7 S/FTP LSOH data cable is well suited for 10 Gigabit Ethernet Cabling System and installation in fire safety environments. Bandwidth frequency up to 600Mhz. Supercharging and future-proof your network infrastructure for bandwidth hungry applications.*

*Superior design of overall tinned copper braiding and individual pair shielding provide excellent electromagnetic/radio frequency interference (EMI/RFI) protection and alien crosstalk suppression.*

*The Hermesys shielded structured cabling system comprises of shielded modular connectors, patch panels, patch cords and cables. The system is ideal for deployment in all mission-critical network systems where EMI/RFI might be of a concern.*



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

### Features and Benefits

Each single pair individually shielded with Aluminum foil and overall with tinned copper braiding.

Available for Power Over Ethernet (POE), POE +

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

RoHS Compliant.

### Standards

#### Comply

ISO/IEC 11801  
IEC 61156-5  
EN50173-1  
EN 50288-4-1

#### Flame Resistance

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

# LadonX™ Category 7

## S/FTP 23AWG LSOH Jacket Data Cable

### Cable Description

#### CONDUCTOR & INSULATION

Conductor Material	Annealed Bare Copper
Conductor Size	23 AWG
Insulation Material	Foam PE
Insulation Min Thickness	0.34 mm
Insulation Diameter	1.33 ± 0.05mm
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	0.45mm Tinned Copper
Single Pair Shielding	Aluminum Mylar Foil
Overall Shielding 1	Tinned Copper Braiding 40% coverage
Overall Shielding 2	N/A
Jacket Type	LSOH
Cable Overall Diameter	7.80 ± 0.5 mm

#### PHYSICAL TECHNICAL DATA

Cold Bend Test	-20 ± 2°C * 4hrs no. crack
Jacket Min Tension Strength (psi) Before Aging	1450
Jacket Min Elongation (%) Before Aging	125
Jacket Min Tension Strength (psi) After Aging	1160
Jacket Min Elongation (%) After Aging	100
Min. Bending Radius (mm)	≥ 8 * cable diameter
Max Pulling Tension (N)	≤ 100N
Installation Temperature	- 25°C to 60°C
Operating Temperat	- 25°C to 60°C

## LadonX™ Category 7

### S/FTP 23AWG LSOH Jacket Data Cable

#### ELECTRICAL TECHNICAL DATA

Conductor Resistance (ohm/100m @ 20 c)	Max. 9.50
DC Resistance Unbalance (%)	Max. 2.0
Pair-to-ground Capacitance Unbalance (pF/100m)	Max. 330
Velocity of Propagation (%)	70%
Input Impedance (ohm)	100 ± 15Ω (1MHz - 100MHz)
	100 ± 18Ω (101MHz - 250MHz)
	100 ± 25Ω (251MHz - 1000MHz)

Notes: 1) after 600Mhz the values are for reference only.

#### IEC 61156-5 ed 2.0 Category 7 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	2.0	20.0	78.0	78.0	75.0	75.0	25	570.0
4	3.74	23.0	78.0	78.0	75.0	75.0	25	552.0
8	5.24	24.5	78.0	75.9	75.0	72.9	25	546.7
10	5.86	25.0	78.0	74.0	75.0	71.0	25	545.4
16	7.41	25.0	78.0	69.9	75.0	66.9	25	543.0
20	8.29	25.0	78.0	68.0	75.0	65.0	25	542.0
25	9.29	24.3	78.0	66.0	75.0	63.0	25	541.2
31.25	10.41	23.6	78.0	64.1	75.0	61.1	25	540.4
62.5	14.88	21.5	75.5	58.1	72.5	55.1	25	538.6
100	19.02	20.1	72.4	54.0	69.4	51.0	25	537.6
150	23.56	18.9	69.8	50.2	66.8	47.2	25	536.9
200	27.47	18.0	67.9	48.0	64.9	45.0	25	536.6
250	30.97	17.3	66.4	46.0	63.4	43.0	25	536.3
300	34.19	16.8	65.2	44.5	62.2	41.5	25	536.1
600	50.10	14.7	60.7	38.4	57.7	35.4	25	535.5
800	58.92	13.8	58.9	35.9	55.9	32.9	25	535.3
1000	66.93	13.1	57.4	34.0	54.4	31.0	25	535.1

# LadonX™ Category 7

*S/FTP 23AWG LSOH Jacket Data Cable*

## *Ordering information*

Part Number	14842
Sheath Marking	Hermesys LadonX Cat. 7 S/FTP LSOH Data Cable 14842 IEC 60332-1 ANSI/TIA 568-C.2 ISO/IEC 11801 xxxXM MMY

## *Shipping information*

14842-500D	500m/wooden drum
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