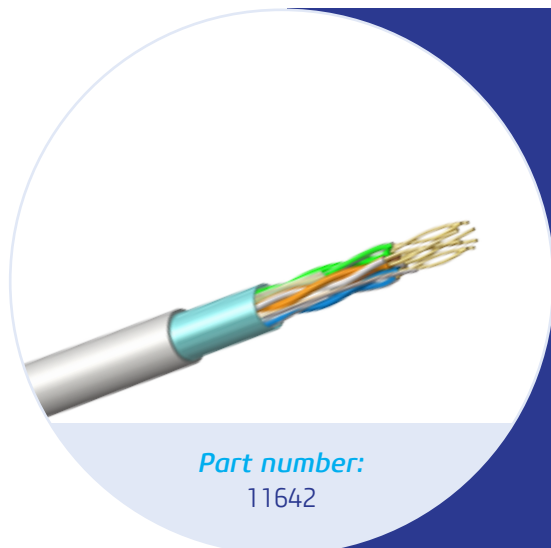


## LadonX™ Category 6

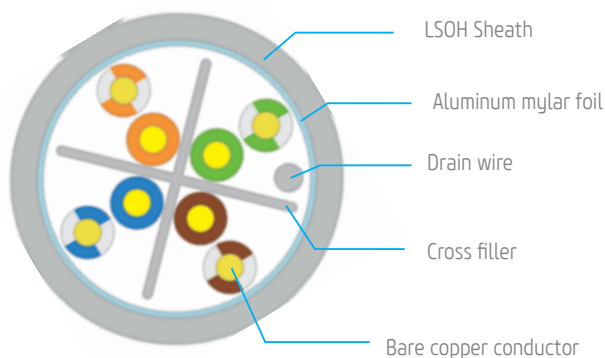
F/UTP 23 AWG LSOH Jacket Data Cable



*LadonX™ series Cat. 6 F/UTP LSOH data cable is well suited for Gigabit Ethernet Cabling System and installation in fire safety environments.*

*Added design benefit of shielding for 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

Meets IEEE 802.3af for PoE applications.

Ethernet 10BASE-T, 100BASE-T, 1000BASE-T and 10G BASE-T

15 Mb/s ATM, 622 Mb/s ATM & 1.2Gb/s ATM

Broadband Video applications.

RoHS comply

### Standards

#### Comply

ANSI/TIA 568-C.2  
ISO/IEC 11801  
EN 50173

#### Flame Resistance

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

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### Cable Description

#### CONDUCTOR & INSULATION

Conductor Material	Annealed Bare Copper
Conductor Size	23 AWG
Insulation Material	HDPE
Insulation Min Thickness	0.24 mm
Insulation Diameter	1.08 ± 0.02mm
Cross Filler	PE cross filler

#### 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	N/A
Overall Shielding 1	Aluminum Mylar Foil
Overall Shielding 2	N/A
Jacket Type	LSOH
Cable Overall Diameter	7.40 ± 0.4mm

#### PHYSICAL TECHNICAL DATA

Cold Bend Test	-20°C ± 2°C x 4hrs No Crack
Insulation Min Tension Strength (psi) Before Aging	2320
Insulation Min Elongation (%) Before Aging	300
Jacket Min Tension Strength (psi) Before Aging	1450
Jacket Min Elongation (%) Before Aging	125
Min. Bending Radius (mm)	≥ 6 times of overall diameter
Max Pulling Tension (N)	≤ 100N
Installation Temperature	-25°C to 60°C
Operating Temperat	-25°C to 60°C

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## F/UTP 23 AWG LSOH Jacket Data Cable

### ELECTRICAL TECHNICAL DATA

Conductor Resistance ( $\Omega/100m$ @ 20°C)	Max. 9.50
DC Resistance Unbalance (%)	Max. 5%
Pair-to-ground Capacitance Unbalance (pF/100m)	Max. 330
Velocity of Propagation (%)	68%
Input Impedance ( $\Omega$ )	100 $\pm$ 15 $\Omega$ (1MHz - 250MHz)

### 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)	ELFEXT (dB/100m)	PS-NEXT (dB/100m)	PSELFEXT (dB/100m) Min	Delay Skew	Po. Delay (ns/100) Min
1	1.9	20.0	74.0	68.0	72.3	65.0	45	570.00
4	3.7	23.0	65.0	56.0	63.3	53.0	45	552.00
8	5.3	24.5	60.7	49.9	58.8	46.9	45	546.73
10	5.9	25.0	59.0	48.0	57.3	45.0	45	545.38
16	7.5	25.0	56.0	43.9	54.2	40.9	45	543.00
20	8.4	25.0	55.0	42.0	52.8	39.0	45	542.05
25	9.5	24.3	53.3	40.0	51.3	37.0	45	541.20
31.25	10.6	23.6	52.0	38.1	49.9	35.1	45	540.44
62.5	15.4	21.5	47.0	32.1	45.4	29.1	45	538.55
100	19.8	20.1	44.0	28.0	42.3	25.0	45	537.60
200	29.0	18.0	40.0	22.0	37.8	19.0	45	536.54
250	32.8	17.3	38.0	20.0	36.3	17.0	45	536.27

### Ordering information

Part Number	11642
Sheath Marking	Hermesys LadonX Cat. 6 F/UTP LSOH Data Cable 11642 ANSI/TIA 568-C.2 ISO/IEC 11801 xxxXM MMY

### Shipping information

11642-500D	500m/wooden drum
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