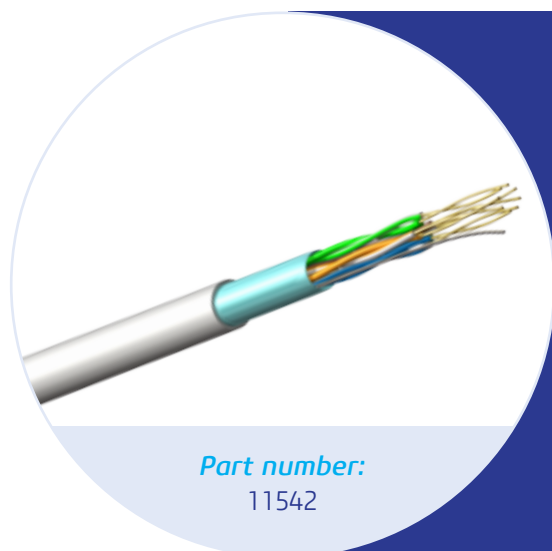


LadonX™ Category 5e

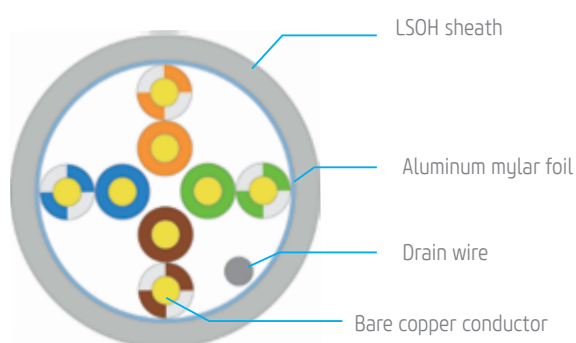
F/UTP 24AWG LSOH Jacket Data Cable



LadonX™ series Cat. 5e F/UTP LSOH data cable is well suited for Megabit Ethernet Cabling System. Light weight and compact cable design.

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 Applications

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 Compliant

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

LadonX™ Category 5e

F/UTP 24AWG LSOH Jacket Data Cable

Cable Description

CONDUCTOR & INSULATION

Conductor Material	Annealed Bare Copper
Conductor Size	24 AWG
Insulation Material	HDPE
Insulation Min Thickness	0.22 mm
Insulation Diameter	1.00 ± 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	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	6.20 ± 0.4mm

PHYSICAL TECHNICAL DATA

Cold Bend Test	-20°C x 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)	≥ 6 times of overall diameter
Max Pulling Tension (N)	≤ 100N
Installation Temperature	-25°C to 60°C
Operating Temperat	-25°C to 60°C

LadonX™ Category 5e

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ELECTRICAL TECHNICAL DATA

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

IEC 61156-5 ed 2.0 Category 5e Horizontal Cable Parameters

AT 20°C

Freq. (MHz)	Att. (dB/100m) Max	RL (dB) Min	NEXT (dB/100m) Min	ELFEXT (dB/100m) Min	PS-NEXT (dB/100m) Min	PSELFEXT (dB/100m) Min	Delay Skew	Po. Delay (ns/100) Min
1	2.0	20.0	65.3	63.8	62.3	60.8	45	570.0
4	4.1	23.0	56.3	51.8	53.3	48.7	45	552.0
8	5.8	24.5	51.8	45.7	48.8	42.7	45	546.7
10	6.5	25.0	50.3	43.8	47.3	40.8	45	545.4
16	8.2	25.0	47.2	39.7	44.4	36.7	45	543.0
20	9.3	25.0	45.8	37.8	42.8	34.7	45	542.0
25	10.4	24.3	44.3	35.8	41.3	32.8	45	541.2
31.25	11.7	23.6	42.9	33.9	39.9	30.9	45	540.4
62.5	17.0	21.5	38.4	27.8	35.4	24.9	45	538.6
100	22.0	20.1	35.3	23.8	32.3	20.8	45	537.6

Ordering information

Part Number	11542
Sheath Marking	Hermesys LadonX Cat. 5e F/UTP ISOH Data Cable 11542 ANSI/TIA 568-C.2 ISO/IEC 11801 xxxxxM MMY

Shipping information

11542-305B	305m/Box
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