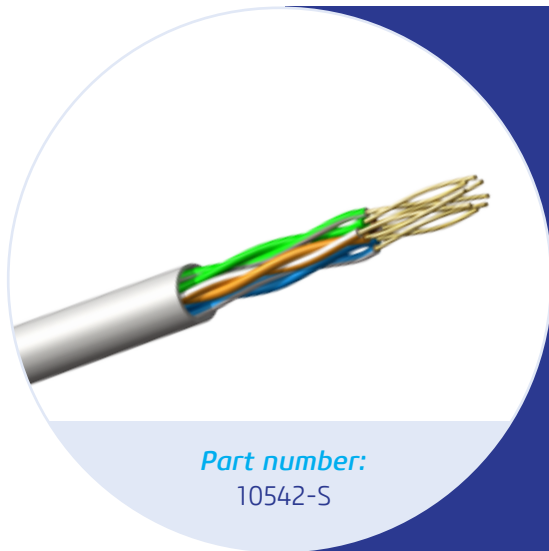


LadonX™ Category 5e

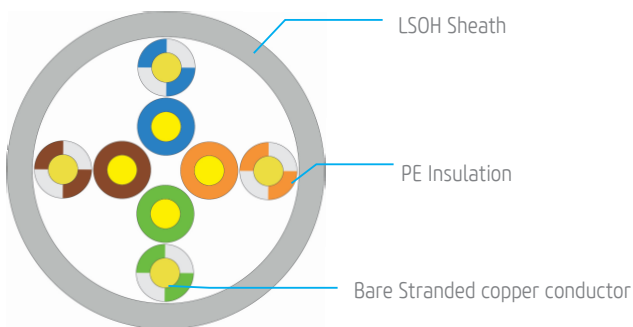
U/UTP 24AWG LSOH Jacket Stranded Core Data Cable



Part number:
10542-S

LadonX™ series Cat. 5e U/UTP 4-pair stranded core data cable is designed for Gigabit Ethernet and other telecom network protocols. The performance exceeds ANSI/TIA 568-C.2 Category 5e 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 Benefits

Transmission performance exceeds standard specifications.

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

TP-PMD/TP-DDI-ATM 155,622,1200Mbps

Easy pull box ensure proper performance and provide quick installation.

RoHS Compliant

Standards

Comply

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

Flame Resistance

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

LadonX™ Category 5e

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Cable Description

CONDUCTOR & INSULATION

Conductor Material	Stranded Annealed Bare Copper
Conductor Size	24 AWG
Insulation Material	HDPE
Insulation Min Thickness	0.18 mm
Insulation Diameter	0.97 ± 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	N/A
Single Pair Shielding	N/A
Overall Shielding 1	N/A
Overall Shielding 2	N/A
Jacket Type	LSOH
Cable Overall Diameter	5.50 ± 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)	≥ 8 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 (Ω /100m @ 20°C)	Max. 9.38
DC Resistance Unbalance (%)	Max. 5%
Pair-to-ground Capacitance Unbalance (pF/100m)	Max. 330 pF/100m
Velocity of Propagation (%)	62%
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 (ns/100m) Min	Po. Delay (ns/100) Min
1	2.0	20.0	65.3	63.8	62.3	60.8	45	570.0
4	4.0	23.0	56.3	51.7	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	47.3	39.7	44.3	36.7	45	543.0
20	9.3	25.0	45.8	37.7	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	24.8	45	538.6
100	22.0	20.1	35.3	23.8	32.3	20.8	45	537.6

Ordering information

Part Number	10542-S
Sheath Marking	Hermesys LadonX Cat. 5e U/UTP LSOH Stranded Data Cable 10542-S ANSI/TIA 568-C.2 ISO/IEC 11801 xxxxM MMY

Shipping information

10542-S-305B	305m/Box
10542-S-500D	500m/wooden drum