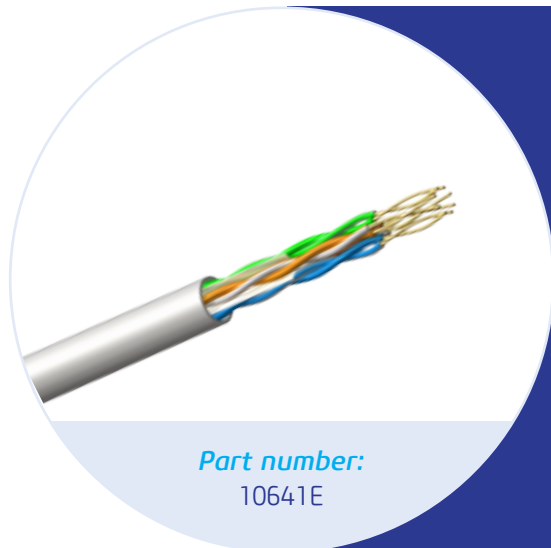


LadonX™ Category 6

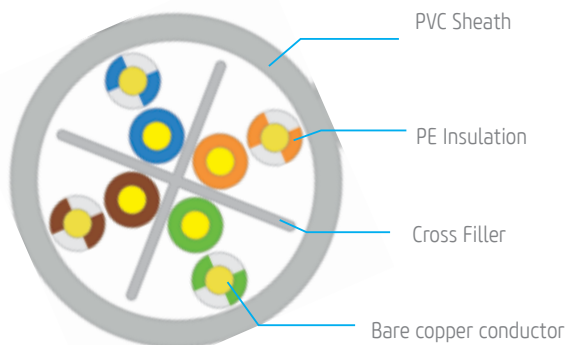
U/UTP 24 AWG PVC Jacket Data Cable



LadonX™ Cat. 6 U/UTP 4-pair 24AWG solid data cable is verified to TIA/ EIA-568-C.2

The high speed data transmission provide excellent transmission characteristics and is the best solution for Gigabit Ethernet and voice application.

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.

Includes non-metallic cross separator for stronger signal strength.

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

Suitable also for Analogic video, 155/622Mbps ATM, 1.2Gbps ATM

RoHS Compliant

Standards

Comply

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

Flame Resistance

IEC 60332-1

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Cable Description

CONDUCTOR & INSULATION

Conductor Material	Annealed Bare Copper
Conductor Size	24 AWG * 4P
Insulation Material	HDPE
Insulation Min Thickness	0.22 mm
Insulation Diameter	0.95 ± 0.05mm
Cross Filler	PE cross separator

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	N/A
Jacket Type	PVC
Jacket Colour	Grey (RAL 7032)
Cable Overall Diameter	5.70 ± 0.3mm

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	2320
Insulation Min Elongation (%) Before aging	300
Jacket Min Tension Strength (psi) Before aging	1960
Jacket Min Elongation (%) Before aging	150
Min. Bending Radius (mm)	8 * Cable OD
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
Conductor Resistance Unbalance (%)	Max. 2%
Pair-to-ground Capacitance Unbalance (pF/100m)	Max. 330
Velocity of Propagation (%)	62%
Input Impedance (ohm)	100 \pm 18 Ω (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	ELFEXT (dB/100m) Min	PS-NEXT (dB/100m) Min	PSELFEXT (dB/100m) Min	Delay Skew (ns/100m) Min	Po. Delay (ns/100) Min
1	-	-	-	-	-	-	-	-
4	3.8	23.0	65.3	55.8	63.6	52.8	45	552.0
10	6.0	25.0	59.3	47.8	57.3	44.8	45	545.4
16	7.6	25.0	56.3	43.7	54.2	40.7	45	543.0
20	8.5	25.0	54.8	41.8	52.8	38.8	45	542.0
31.25	10.7	23.6	51.9	37.9	49.9	34.9	45	540.4
62.5	15.4	21.5	47.4	31.9	45.4	28.9	45	538.6
100	19.8	20.1	44.3	27.8	42.3	24.8	45	537.6
200	29.0	18.0	39.8	21.8	37.8	18.8	45	536.5
250	32.8	17.3	38.3	19.8	36.3	16.8	45	536.3

Ordering information

Part Number	10641E
Sheath Marking	Hermesys LadonX Cat. 6 U/UTP 24AWG PVC Data Cable 10641E ANSI/TIA 568-C.2 xxxxM MMY

Shipping information

10641E-305B	305m/Box
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