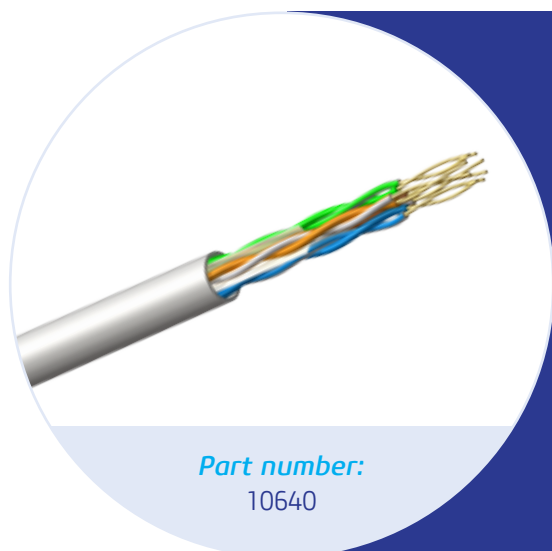


LadonX™ Category 6

U/UTP 23 AWG PE Jacket Outdoor Data Cable

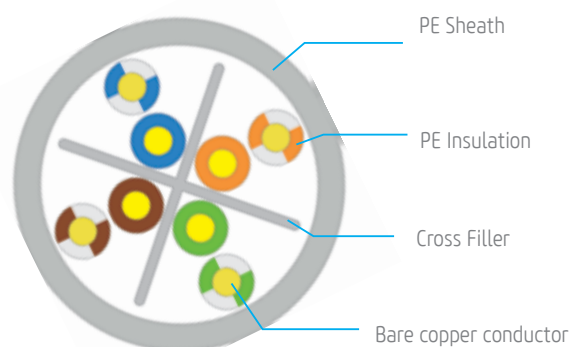


Part number:
10640

LadonX™ Cat. 6 U/UTP PE OUTDOOR data cable is with weatherproof outer PE sheathing.

The cable is well suited for Gigabit Ethernet Cabling System and installation in exposed and harsh environments.

Added design benefit of shielding for electromagnetic/radio frequency interference (EMI/RFI) protection and alien crosstalk suppression.



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
ISO/IEC 11801

Flame Resistance

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Cable Description

CONDUCTOR & INSULATION

Conductor Material	Annealed Bare Copper
Conductor Size	23 AWG * 4P
Insulation Material	HDPE
Insulation Min Thickness	0.21 mm
Insulation Diameter	0.96 ± 0.03mm
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 1	N/A
Overall Shielding 2	N/A
Jacket Type	PE
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	2400
Insulation Min Elongation (%) Before aging	300
Jacket Min Tension Strength (psi) Before aging	1400
Jacket Min Elongation (%) Before aging	350
Min. Bending Radius (mm)	≥ 4 times of overall diameter
Max Pulling Tension (N)	≤ 110 N
Installation Temperature	0 °C to 60 °C
Operating Temperat	-20 °C to 60 °C

LadonX™ Category 6

U/UTP 23 AWG PE Jacket Outdoor Data Cable

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
Mutual Capacitance	Max. 5.6 nF/m
Input Impedance (ohm)	100 $\pm$ 15 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	63.3	53.0	45	552.0
10	6.0	25.0	59.3	47.8	57.3	45.0	45	545.4
16	7.6	25.0	56.2	43.7	54.2	40.9	45	543.0
20	8.5	25.0	54.8	41.8	52.8	39.0	45	542.0
31.25	10.7	23.6	51.9	37.9	49.9	35.1	45	540.4
62.5	15.4	21.5	47.4	31.9	45.4	29.1	45	538.6
100	19.8	20.1	44.3	27.8	42.3	25.0	45	537.6
200	29.0	18.0	39.8	21.8	37.8	19.0	45	536.5
250	32.8	17.3	38.3	19.8	36.3	17.0	45	536.3

Ordering information

Part Number	10640
Sheath Marking	Hermesys LadonX Cat. 6 U/UTP Outdoor Cable10640 ANSI/ TIA 568-C.2 xxxxM MMY

Shipping information

10640-305B	305m/Box
10640-500D	500m/wooden drum