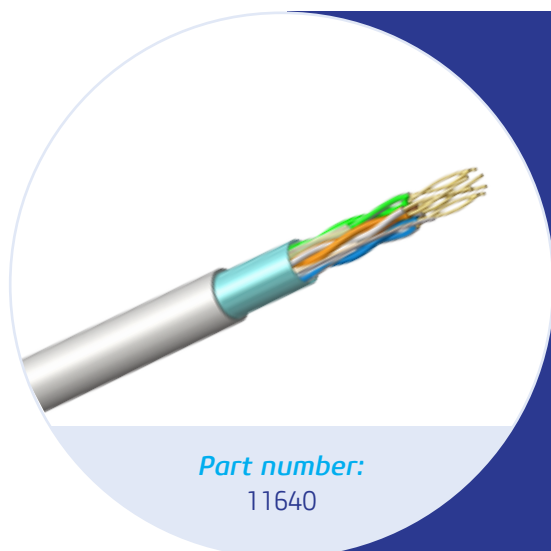


LadonX™ Category 6

F/UTP 23 AWG PE Jacket Outdoor Data Cable

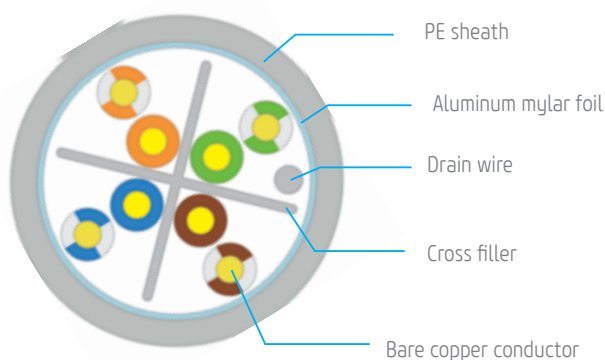


Part number:
11640

LadonX™ series Cat. 6 F/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

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

Flame Resistance

LadonX™ Category 6

F/UTP 23 AWG PE Jacket Outdoor Data Cable

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	PE
Cable Overall Diameter	7.40 ± 0.4mm

PHYSICAL TECHNICAL DATA

Cold Bend Test	-20°C ± 2°C x 4hrs No Crack
Jacket Tension Strength (psi) Before Aging	1450
Jacket Elongation (%) Before Aging	≥ 150%
Jacket Elongation (%) After Aging	≥ 300%
Min. Bending Radius (mm)	≥ 8 times of overall diameter
Max Pulling Tension (N)	≤ 100N
Installation Temperature	-30°C ~ 50°C
Operating Temperat	-10°C ~ 50°C

LadonX™ Category 6

F/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
Velocity of Propagation (%)	69%
Input Impedance (Ω)	100 $\pm$ 15 Ω (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	2.03	20.0	74.3	67.8	72.3	64.8	45	570.00
4	3.78	23.0	65.3	55.8	63.3	52.8	45	552.00
8	5.32	24.5	60.8	49.7	58.8	46.7	45	546.73
10	5.95	25.0	59.3	47.8	57.3	44.8	45	545.38
16	7.55	25.0	56.2	43.7	54.2	40.7	45	543.00
20	8.47	25.0	54.8	41.8	52.8	38.8	45	542.05
25	9.51	24.3	53.3	39.8	51.3	36.8	45	541.20
31.25	10.67	23.6	51.9	37.9	49.9	34.9	45	540.44
62.5	15.38	21.5	47.7	31.9	45.4	28.9	45	538.55
100	19.80	20.1	44.3	27.8	42.3	24.8	45	537.60
200	28.98	18.0	39.8	21.8	37.8	18.8	45	536.54
250	32.85	17.3	38.3	19.8	36.3	16.8	45	536.27

Ordering information

Part Number	11640
Sheath Marking	Hermesys LadonX Cat. 6 F/UTP PE Outdoor Data Cable 11640 ANSI/TIA 568-C.2 xxxxxM MMY

Shipping information

11640-500D	500m/wooden drum
------------	------------------