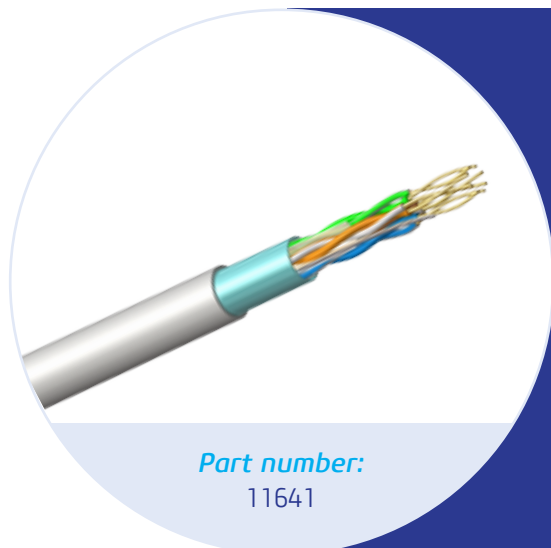


LadonX™ Category 6

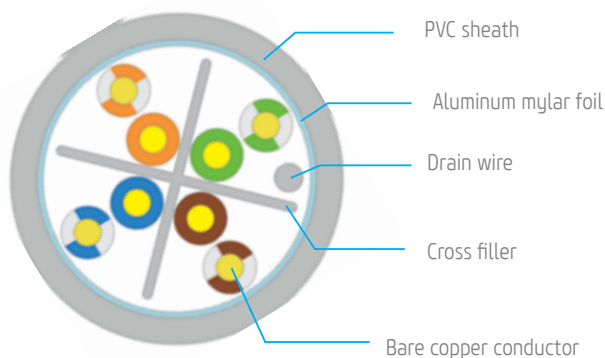
F/UTP 23 AWG PVC Jacket Data Cable



LadonX™ series Cat. 6 F/UTP PVC data cable is well suited for Gigabit Ethernet Cabling System and installation in fire safety environments.

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 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
EN 50173

Flame Resistance

IEC 60332-1

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F/UTP 23 AWG PVC Jacket 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	PVC
Cable Overall Diameter	7.40 ± 0.4mm

PHYSICAL TECHNICAL DATA

Cold Bend Test	-20°C ± 2°C x 4hrs No Crack
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)	≥ 6 times of overall diameter
Max Pulling Tension (N)	≤ 100N
Installation Temperature	-25°C to 60°C
Operating Temperature	-25°C to 60°C

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ELECTRICAL TECHNICAL DATA

Conductor Resistance ($\Omega/100m$ @ 20°C)	Max. 9.50
DC Resistance Unbalance (%)	Max. 5%
Pair-to-ground Capacitance Unbalance (pF/100m)	Max. 330
Velocity of Propagation (%)	68%
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	1.9	20.0	74.0	68.0	72.3	65.0	45	570.00
4	3.7	23.0	65.0	56.0	63.3	53.0	45	552.00
8	5.3	24.5	60.7	49.9	58.8	46.9	45	546.73
10	5.9	25.0	59.0	48.0	57.3	45.0	45	545.38
16	7.5	25.0	56.0	43.9	54.2	40.9	45	543.00
20	8.4	25.0	55.0	42.0	52.8	39.0	45	542.05
25	9.5	24.3	53.3	40.0	51.3	37.0	45	541.20
31.25	10.6	23.6	52.0	38.1	49.9	35.1	45	540.44
62.5	15.4	21.5	47.0	32.1	45.4	29.1	45	538.55
100	19.8	20.1	44.0	28.0	42.3	25.0	45	537.60
200	29.0	18.0	40.0	22.0	37.8	19.0	45	536.54
250	32.8	17.3	38.0	20.0	36.3	17.0	45	536.27

Ordering information

Part Number	11641
Sheath Marking	Hermesys LadonX Cat. 6 F/UTP PVC Data Cable 11641 ANSI/TIA 568-C.2 ISO/IEC 11801 xxxXM MMY

Shipping information

11641-500D	500m/wooden drum
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