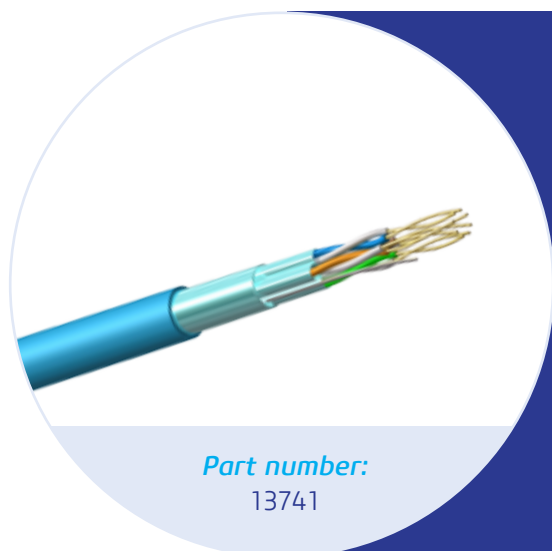


LadonX™ Category 6A

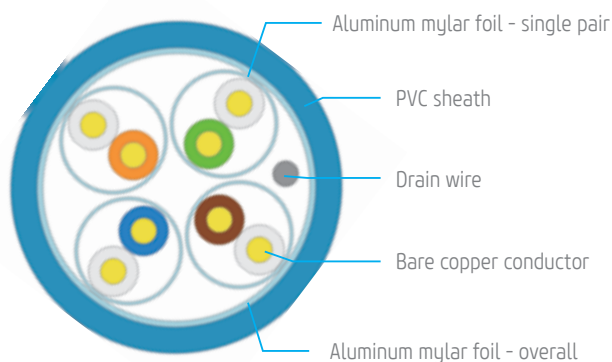
F/FTP 23AWG PVC Jacket Data Cable



LadonX™ series Cat. 6A F/FTP PVC data cable is well suited for 10 Gigabit Ethernet Cabling System and installation in fire safety environments. Bandwidth frequency up to 500Mhz.

Superior design of overall and individual pair shielding provide excellent 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 Applications

Each single pair and overall shielded with Aluminum foil. Constructed without cross filler which reduce the cable overall diameter and make cable much flexible for installation.

Available for Power Over Ethernet (POE), POE +

Data cable for structured premises cabling, digital/analogue voice, video and data signals.

RoHS Compliant

Standards

Comply

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

Flame Resistance

IEC 60332-1

LadonX™ Category 6A

F/FTP 23AWG PVC Jacket Data Cable

Cable Description

CONDUCTOR & INSULATION

Conductor Material	Annealed Bare Copper
Conductor Size	23 AWG
Insulation Material	Foam PE
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	0.40mm Tinned Copper
Single Pair Shielding	Aluminum Foil
Overall Shielding 1	Aluminum Foil
Overall Shielding 2	N/A
Jacket Type	LSOH
Cable Overall Diameter	7.50 ± 0.5 mm

PHYSICAL TECHNICAL DATA

Cold Bend Test	-20 ± 2°C * 4hrs no. crack
Jacket Min Tension Strength (Mpa) Before Aging	≥ 10.0
Jacket Min Elongation (%) Before Aging	≥ 125
Jacket Min Tension Strength (Mpa) After aging	≥ 8.0
Jacket Min Elongation (%) After Aging	≥ 100
Min. Bending Radius (mm)	≥ 8 * cable diameter
Max Pulling Tension (N)	≤ 100N
Installation Temperature	0°C to +50°C
Operating Temperat	-20°C to +70°C

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ELECTRICAL TECHNICAL DATA

Conductor Resistance (ohm/100m @ 20 c)	9.38
DC Resistance Unbalance (%)	5.0
Pair-to-ground Capacitance Unbalance (pF/Km)	330
Velocity of Propagation	75%
Input Impedance (ohm)	100 ± 15 Ω (1 to 250 MHz)
	100 ± 22 Ω (251 to 500 MHz)

IEC 61156-5 ed 2.0 Category 6a Horizontal Cable Parameters

AT 20°C

Freq. (MHz)	Ins. Loss (dB/100m)	RL (dB) Min	NEXT (dB/100m)	PS-NEXT (dB/100m)	PS-ACRF (dB/100m) Min	Delay Skew	Po. Delay (ns/100) Min
1	3.2	20.0	74.3	72.3	64.8	45	570
4	5.7	23.0	65.3	63.3	52.8	45	552
10	8.9	25.0	59.3	57.3	44.8	45	545
16	11.3	25.0	56.2	54.2	40.7	45	543
20	12.6	25.0	54.8	52.8	38.8	45	542
31.25	15.8	23.3	51.9	49.9	34.9	45	540
62.5	22.5	20.7	47.4	45.4	28.9	45	539
100	28.7	19.0	44.3	42.3	24.8	45	538
200	41.4	16.4	39.8	37.8	18.8	45	537
250	46.7	25.6	38.3	36.3	16.8	45	536
300	51.5	14.9	37.1	35.1	15.3	45	536
500	68.0	13.0	33.8	31.8	10.8	45	536

Ordering information

Part Number	13742
Sheath Marking	Hermesys LadonX Cat. 6A F/FTP PVC Data Cable 13741 IEC 60332-1 ANSI/TIA 568-C.2 ISO/IEC 11801 xxxxM MMY

Shipping information

13742-500D	500m/wooden drum
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