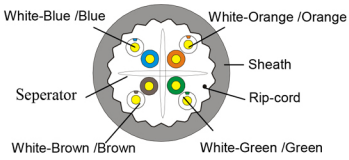


## CAT6A-4P Unscreened (UUTP) LSZH/PVC Cable



### DIAGRAM & DESCRIPTION

OPTiLite Category 6A cables, and associated connectors, take the performance capabilities of copper infrastructure to new levels. Designed to the current ISO EN and TIA standards for Class EA / Category 6A performance these products are intended to deliver reliable, high network performance over permanent link distances of up to 90 metres and channels up to 100m, including applications such as 10GBASE-T, 10 Gigabit Ethernet.

### FEATURES

- U/UTP CAT6A-4P- LSZH component compliant
- Lightweight, Compact Round Design
- Conventional unscreened construction
- Specified to 500MHz
- Suitable for 10 Gigabit, Ethernet applications
- LSZH/PVC Outer Sheath
- Compact, but robust, design

OPTiLite Category 6A cables are jacketed in an Purple low smoke zero halogen (LSOH) compound compliant with flame retardant standards as defined in IEC 60332-1 (option for IEC 60332-3), and smoke emission standards IEC61034. Supplied on 305 metre reels in a box, each cable has a print legend identifying the specification, part code and sequential metre marking which counts down from 305 metres to 1 metre, on each drum to reduce waste.

### PHYSICAL CONSTRUCTION

Conductor	Insulation	Jacket
Type - Solid bare copper	Type - HDPE	Type - LSZH/PVC
Nom.O.D.(mm) 0.565	Diameter - 1.02 ± 0.03mm	Color - Optional
up +0.005		Thickness - 0.70 ± 0.05mm (Avg.)
down -0.005		Diameter - 7.1 ± 0.4mm

### Construction

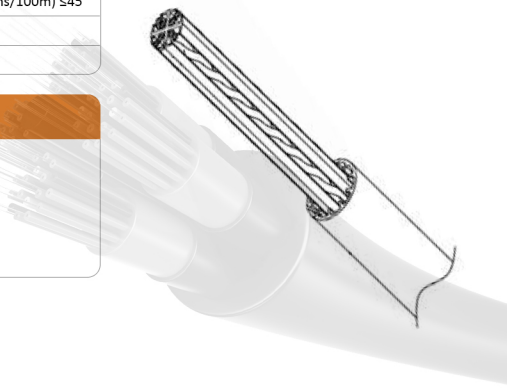
- Temperature Range** -10 °C to +60 °C
- Min Bend Radius during installation** 66 mm
- Min Bend Radius during operation** 33 mm
- Smoke Emission** IEC 61034
- Impedance** 100 Ohms
- Cable weight** 48 kg/km
- NVP** 66.7%

### ELECTRICAL CHARACTERISTIC (20°C)

1.0-250.0MHz Impedance (Ω) 100±15	1.0-250.0MHz Delay Shew (ns/100m) ≤45
DC Resistance (Ω/100m) max 9.38	
DC Conductor Resistance Unbalance (%) max 5.0	

### STANDARDS COMPLIANCE

- Category 6A
- ISO/IEC11801
- IEC 60332-1-[1,2]:2004
- IEC 60754-[1,2]
- IEC 61034-[1,2]



TRANSMISSION PERFORMANCE (20°C, 100M)							
Frequency (MHz)	Attenuation (dB/100m)	ReturnLoss (dB)	Next (dB)	PS-NEXT (dB)	ELFEXT	PS-ELFEXT (dB/100m)	Propagation Delay (ns/100m)
1.0	2.1	20.0	74.3	72.3	67.8	64.8	570.0
4.0	3.8	23.0	65.3	63.3	55.8	52.8	552.0
8.0	5.3	24.5	60.8	58.8	49.7	46.7	546.7
10.0	5.9	25.0	59.3	57.3	47.8	44.8	545.4
16.0	7.5	25.0	56.2	54.2	43.7	40.7	543.0
20.0	8.4	25.0	54.8	52.8	41.8	38.8	542.1
25.0	9.4	24.3	53.3	51.3	39.8	36.8	541.2
31.25	10.5	23.6	51.9	49.9	37.9	34.9	540.4
62.5	15.0	21.5	47.4	45.4	31.9	28.9	538.6
100.0	19.1	20.1	44.3	42.3	27.8	24.8	537.6
200.0	27.6	18.0	39.8	37.8	21.8	18.8	536.5
250.0	31.1	17.3	38.3	36.3	19.8	16.8	536.3
300.0	34.3	16.8	37.1	35.1	18.3	15.3	536.1
500.0	45.3	15.2	33.8	31.8	13.8	10.8	535.6

**Notes:**

**Print:** Repeat every meter replacing xxxx with meter count.

**Package:** 1000ft Reelex-in-a-box.



**ORDERING INFORMATION**

**DESCRIPTION**

- OPTiLite Category 6A Unshielded Twisted Pair 23AWG PVC Cable Grey, 305m Box, ETL Approved
- OPTiLite Category 6A Unshielded Twisted Pair 23AWG PVC Cable Grey, 500m Reel, ETL Approved
- OPTiLite Category 6A Unshielded Twisted Pair 23AWG LSZH Cable Grey, 305m Box, ETL Approved
- OPTiLite Category 6A Unshielded Twisted Pair 23AWG LSZH Cable Grey, 500m Reel, ETL Approved

**PART NUMBER**

- UTP6A3G23-PV
- UTP6A5G23-PV
- UTP6A3P23-LS
- UTP6A5P23-LS

**System Warranty:**

The OPTiLite Cabling System Warranty provides a 25-year product and applications assurance of compliance with the industry performance standard appropriate to the class of cabling installed. The warranty may be applied for by an accredited OPTiLite Partner who has designed, supplied and installed the said system.

