

# OPENETICS

RANGE

S.C.E. Category 6A

Technical Specifications

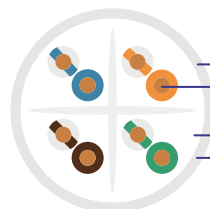
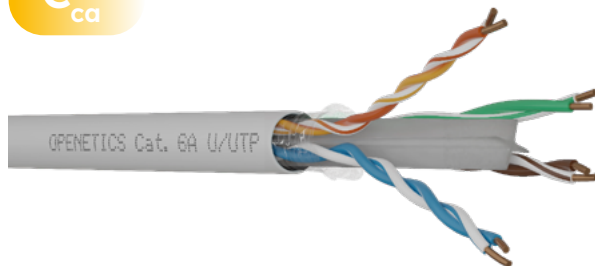
Date:

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Code No.:

CAT 6A-No. 01-ESP-  
V1

## LSZH Cat. 6A U/UTP Rigid Cable, Cca s1a,d1,a1



AISLANTE INSULATING  
 CONDUCTOR  
 CRUCETA SEPARADORA CROSS SEPARATOR  
 HILO RASGADO RIPPED  
 CUBIERTA EXTERNAL

### Description

Copper cable consisting of 4 unshielded twisted pairs. Designed for voice and data transmission in local area networks (LANs), primarily for horizontal cabling. Supports frequencies up to 700 MHz and speeds up to 10 Gbps. Supports 4PPoE up to 90W.

### Applications

Supports all current LAN applications, including:

- 10BASE-T (IEEE 802.3)
- 100BASE-T (IEEE 802.3)
- 10G BASE-T
- 1000BASE-T (Gigabit Ethernet)
- 100BASE-VG-AnyLAN
- 4/16 Mbps Token Ring (IEEE 802.5)
- 55/155 Mbps ATM
- 100 Mbps TP-PMD (ANSI X.3T.9.5)
- 1.2 / 2.4 Gbps ATM

### Regulations

- ISO/IEC 11801 Class EA.
- ANSI/TIA-568-2.D.
- IEC 61156-5.
- EN 50288-3-1, EN 50173, EN 50575, EN 50399, EN 13501-6.
- IEEE 802.3 bt 4PPoE.

### Benefits and Features

- Fire reaction: Class Cca s1a,d1,a1 (in accordance with EN 13501-6).
- It meets the Cat. 6A requirements specified by the standard.
- High level of protection against electromagnetic interference.
- Low delay propagation.
- High ACR values and minimal speed error.
- Quick identification and easy installation.
- High-quality cable design.
- Available in 500-meter rolls and 305-meter boxes.

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### Physical and Mechanical Specifications

■ Driver:	23 AWG, solid copper	
■ Insulation:	HDPE	
■ Composed of:	4 twisted pairs spacer cross	
■ Cover:	FR-LSZH (RoHS compliant) / white	
■ Temperature of:	Storage:	-20 °C to 70 °C
	How it works:	-20 °C to 70 °C
	Installation:	-5 °C to +50 °C
■ Diameter of individual copper insulation:	1.00 ± 0.02 mm	

### Electrical and Dimensional Specifications

■ Maximum resistance (DC):	<80 Ω/km @20 °C	
■ Nominal mutual capacity:	56 nF/km @1 kHz	
■ NVP propagation speed (% of light speed):	65	
■ Average input impedance:	100 ± 5 @ 100 MHz (Ω)	
■ Propagation delay:	max. 518 (ns at 10 MHz)	
■ Delay distortion:	max. 40 (ns/100 m)	
■ Coupling attenuation (min.):	@30–100 MHz	40
	@100–1000 MHz	40–20log(f/100)
■ Maximum tensile force:	80 N	
■ Euroclass:	<b>Approx.</b>	
■ Approx. outer diameter (mm):	6.3 +- 0.05	
■ Approx. weight (kg/km):	59.7	
■ Min. Radius of curvature (mm):	34	

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### Electrical Specifications

Frequency	RL	ATT	NEXT	DELAY	Frequency	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	MHz	≥ dB	≥ dB	≥ dB
1	20.0	2.1	74.3	570.0	1	72.3	67.8	64.8
4.0	23.0	3.8	65.3	552.0	4	63.3	55.8	52.8
8.0	24.5	5.3	60.8	546.7	8	58.8	49.7	46.7
10.0	25.0	5.9	59.3	545.4	10	57.3	47.8	44.8
16.0	25.0	7.5	56.2	543.0	16	54.2	43.7	40.7
20.0	25.0	8.4	54.8	542.1	20	52.8	41.8	38.8
25.0	24.3	9.4	53.3	541.2	25	51.3	39.8	36.8
31.25	23.6	10.5	51.9	540.4	31.25	49.9	37.9	34.9
62.5	21.5	15.0	47.4	538.6	62.5	45.4	31.9	28.9
100	20.1	19.1	44.3	537.6	100	42.3	27.8	24.8
200	18.0	27.6	39.8	536.5	200	37.8	21.8	18.8
250	17.3	31.1	38.3	536.3	250	36.3	19.8	16.8
300	16.8	34.3	37.1	536.1	300	35.1	18.3	15.3
500	15.2	45.3	33.8	535.6	500	31.8	13.8	10.8
700	13.3	52.5	30.4	645	700	28.4	11.2	7.4

### Business Information

Ref.	Cable category	Cable type	Number of pairs	Type of roof	Packaging	Length
0850C	Cat. 6A cable	Rigid U/UTP	4	LSZH Cca s1a,d1,a1	reels	500 m
860C	Cat. 6A cable	Rigid U/UTP	4	LSZH Cca s1a,d1,a1	boxes	305 m

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