

OPENETICS

RANGE

S.C.E. Category 6A

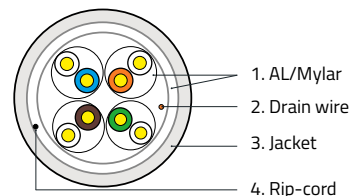
Technical Specifications

Date:

CAT 6A-No. 01-ESP-V1 14/05/2026

Code No.:

Cat. 6A Rigid LSZH F/FTP Cable, Cca, s1a, d1, a1



Description

Copper cable consisting of 4 twisted pairs, with shielding covering both the outer jacket and the 4 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.

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 X3T9.5)
- 1.2 / 2.4 Gbps ATM

Regulations

- ISO/IEC 11801.
- ANSI/TIA-568-2.D.
- IEC 61156-5.
- EN 50288-10-1, EN 50173, EN 50575, EN 50399, EN 13501-6.

Benefits and Features

- Fire reaction: Class Cca (in accordance with EN 13501-6).
- It meets the Category 6A requirements specified by the standard.
- High 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.

OPENETICS INTERNATIONAL S.L.U.

324 Rubí Road, Building D, Can Guitard Industrial Park, (08228) Terrassa, Barcelona.

T: (+34) 93 784 82 12 F: (+34) 93 784 82 10 E: info@openetics.com

© 2024 Openet ICS International S.L.U. All rights reserved.

The specifications published here are current as of the date of this document's publication. Since we are constantly improving our products, OPENET ICS reserves the right to modify the specifications without prior notice.



OPENETICS

RANGE

S.C.E. Category 6A

Cat. 6A Rigid LSZH F/FTP Cable, Cca, s1a, d1, a1

Physical and Mechanical Specifications

■ Driver:	23 AWG, solid copper	
■ Insulation:	HDPE	
■ Comprised of:	4 twisted pairs	
■ Screen saver:	tinned copper drain wire	
■ Main screen:	aluminum / polyester	
■ Pairs screen:	aluminum / polyester	
■ Cover:	LSZH	
■ Temperature of:	Storage:	-20 °C to 70 °C
	How it works:	-20 °C to 70 °C
	Installation:	-5 °C to +50 °C

Electrical and Dimensional Specifications

■ Maximum resistance (DC):	93.8 Ω/km @20 °C	
■ Nominal mutual capacity:	59 nF/km @1 kHz	
■ NVP propagation velocity (% of the speed of light):	70	
■ Average input impedance:	100 ± 5 @ 100 MHz (Ω)	
■ Propagation delay:	max. 518 (ns at 10 MHz)	
■ Delay distortion:	max. 45 (ns/100 m)	
■ Coupling attenuation (min.):	@30–100 MHz	55
	@100–1000 MHz	55–20log(f/100)
■ Maximum tensile force:	100 N	
■ Euroclass:	Approx.	
■ Approx. outer diameter (mm):	7.5 +- 0.05mm	
■ Min. Radius of curvature (mm):	29	

Technical Specifications

Date:

CAT 6A-No. 01-ESP-V1 14/05/2026

Code No.:

OPENETICS INTERNATIONAL S.L.U.

324 Rubí Road, Building D, Can Guitard Industrial Park, (08228) Terrassa, Barcelona.

T: (+34) 93 784 82 12 F: (+34) 93 784 82 10 E: info@openetics.com

© 2024 Openet ICS International S.L.U. All rights reserved.

The specifications published here are current as of the date of this document's publication. Since we are constantly improving our products, OPENET ICS reserves the right to modify the specifications without prior notice.



OPENETICS

RANGE

S.C.E. Category 6A

Cat. 6A Rigid LSZH F/FTP Cable, Cca, s1a, d1, a1

Electrical Specifications

Freq	ATTN	NEXT	PS NEXT	ELFEXT (ACR-F)	PS ELFEXT	PHASE DELAY	RL
(MHz)	dB/100 (max)	dB (Min)	dB (Min)	dB/100 (Min)	dB/100 (Min)	ns (Max)	dB/100 (Min)
1	---	74.3	72.3	68.0	65.0	570.0	20.0
4	3.8	65.3	63.3	56.0	53.0	552.0	23.0
8	5.3	60.8	58.8	49.9	46.9	546.7	24.5
10	5.9	59.3	57.3	48.0	45.0	545.4	25.0
16	7.5	56.2	54.2	43.9	40.9	543.0	25.0
20	8.4	54.8	52.8	42.0	39.0	542.1	25.0
25	9.4	53.3	51.3	40.0	37.0	541.2	24.3
31.25	10.5	51.9	49.9	38.1	35.1	540.4	23.6
62.5	15.0	47.4	45.4	32.1	29.1	538.6	21.5
100	19.0	44.3	42.3	28.0	25.0	537.6	20.1
200	27.6	39.8	37.8	22.0	19.0	536.5	18.0
250	31.1	38.3	36.3	20.0	17.0	536.3	17.3
300	34.3	37.1	35.1	18.5	15.5	536.1	16.8
500	45.3	33.8	31.8	14.0	11.0	535.6	15.2
700	52.5	30.4	28.4	11.2	7.4	645	13.3

Business Information

Ref.	Cable category	Cable type	Number of pairs	Type of roof	Packaging	Length
0848C	Cat. 6A cable	F/FTP (Rigid)	4	LSZH Cca s1aa, d1, a1	reels	500 m

Technical Specifications

Code No.:

Date: 14/05/2026

OPENETICS INTERNATIONAL S.L.U.

324 Rubí Road, Building D, Can Guitard Industrial Park, (08228) Terrassa, Barcelona.

T: (+34) 93 784 82 12 F: (+34) 93 784 82 10 E: info@openetics.com

© 2024 Openet ICS International S.L.U. All rights reserved.

The specifications published here are current as of the date of this document's publication. Since we are constantly improving our products, OPENET ICS reserves the right to modify the specifications without prior notice.

