

OPENETICS

Cat. 6 U/UTP Rigid LSZH Cable, Cca s1,d1,a1



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 250 MHz and speeds up to 1000 Mbps.

Applications

It supports all current LAN applications, including:

- 10BASE-T (IEEE 802.3)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100BASE-VG-AnyLAN
- 100 Mbps TP-PMD (ANSI X3T9.5)
- 100BASE-T (IEEE 802.3)
- 55/155 Mbps ATM
- 1000BASE-T (Gigabit Ethernet)
- 1.2 Gbps ATM
- 10G BASE-T (Length < 50 m)

Regulations

- ISO/IEC 11801
- ANSI/TIA-568-C.2
- IEC 61156-5; IEC 60332-1-2, IEC 60754-2
- EN 50288-6-1, EN 50173, EN 60332-1-2

Features and Benefits

- Fire reaction: Class Cca s1,d1,a1.
- It exceeds the Cat. 6 requirements set forth in the standard.
- Low delay propagation.
- High ACR values and minimal speed error.
- Quick identification and easy installation.
- High-quality cable design.
- Available in 500-meter reels and 305-meter boxes.

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RANGE

S.C.E. Cat. 6

Technical Specifications

Code No.: Date:

01-00-0-1-ES-
V1.0 08/04/2025

Physical and Mechanical Specifications

■ Driver:	23 AWG, solid copper		
■ Insulation:	Polyolefin		
■ Composed of:	4 twisted pairs		
■ Cover:	LSZH material (for Euroclass _{Cca} cable)		
■ 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:	56 nF/km @1 kHz	
■ NVP propagation speed (% of the speed of light):	63,3	
■ Average input impedance:	100 ± 5 @ 250 MHz (Ω)	
■ Propagation delay:	max. 518 (ns@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:	Approx.	
■ Approx. outer diameter (mm):	6.5 ± 0.4 mm	
■ Approx. weight (kg/km):	36,6	
■ Min. Radius of curvature (mm):	23	

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Electrical Characteristics

Frequency	RL	ATT (20 °C)	NEXT	PHASE DELAY	Frequency	PSNEXT	ELFEXT	PSELFEXT
MHz	≥ dB	≤ dB	≥ dB	≤ ns	MHz	≥ dB	≥ dB	≥ dB
1	20.0	2.03	74.3	570.00	1	72.3	67.8	64.8
4.0	23.0	3.78	65.3	552.00	4	63.3	55.8	52.8
8.0	24.5	5.32	60.8	546.73	8	58.8	49.7	46.7
10.0	25.0	5.95	59.3	545.38	10	57.3	47.8	44.8
16.0	25.0	7.55	56.2	543.00	16	54.2	43.7	40.7
20.0	25.0	8.47	54.8	542.05	20	52.8	41.8	38.8
25.0	24.3	9.51	53.3	541.20	25	51.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	31.25	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	62.5	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	100	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	200	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	250	36.3	19.8	16.8

Business Information

Ref.	Cable Category	Cable Type	Number of pairs	Type of roof	Packaging	Length
0702C	Cat. 6 Cable	Rigid U/UTP	4	LSZH Cca s1,d1,a1	reels	500 m
704C	Cat. 6 Cable	Rigid U/UTP	4	LSZH Cca s1,d1,a1	boxes	305 m

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