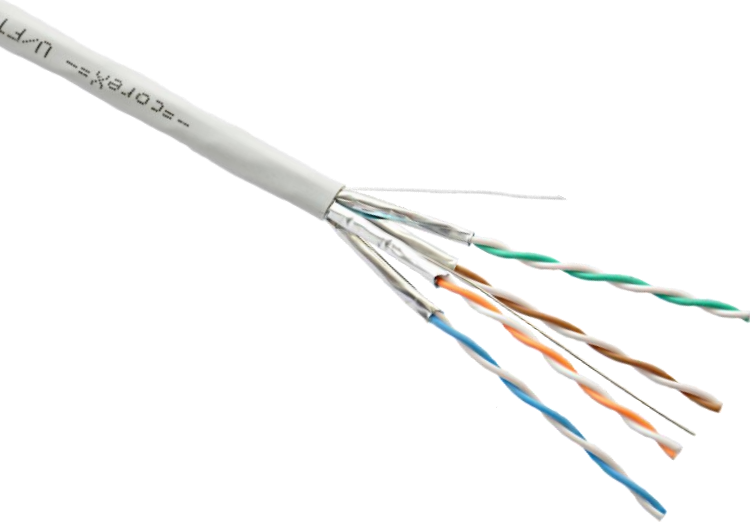


U/FTP cable, 4x2x23AWG, Category 6A, 500 MHz, Euroclass E_{ca}, 500m/reel



Item Code: CX-6A-S-LSZH-ECA



Features:

- Pure copper cores
- each pair individually shielded with AL/PET foil
- with halogen-free (LSZH) sheath
- complies with the Construction Products Regulation (EU No. 305/2011) and reaction to fire requirements (EN 50575: 2014+A1: 2016)
- supports 10Gigabit Ethernet

Application:

- IEEE 802.3: 10BASE-T, 100BASE-TX, 1000BASE-T, 10GBASE-T
- ISO/IEC 11801, ANSI/TIA-568-C.2, EN50173-1
- IEEE 802.3af (PoE), IEEE 802.3at (PoE+)
- for indoor use

Cable specifications

Inner Conductor	solid copper conductors, 23AWG	
Insulation	Skin-foam-skin polyethylene, Ø 1,330±0,05mm	
Construction	4 twisted pairs (individually shielded with Aluminium Foil)	
Sheath	Low smoke zero halogen (LSZH), gray (RAL 7035)	
Overall Diameter	7,5±0,5mm	
Minimum bending radius	60mm	
Weight	51.8kg/km	
Temperature range	operation	-20°C to +70°C
	installation	0°C to +60°C
Max. tensile load	100N	
Reaction to fire	E _{ca}	
Flame retardant	IEC 60332-1-2	
Smoke performance	IEC 61034-1, IEC 61034-2	
Halogen acidity	IEC 60754-2	

Electrical parameters at 20°C

Wave impedance	100 ± 15Ω (1-100MHz)
	100 ± 22Ω (100-250MHz)
	100 ± 25Ω (250-500MHz)
Capacitance unbalance (pair to ground)	≤330pF/100m
Nominal Velocity of Propagation (NVP)	74%
DC Resistance	9,38Ω/100m
DC Resistance unbalance	2,0%
Delay skew	≤45ns/100m

U/FTP cable, 4x2x23AWG, Category 6A, 500 MHz, Euroclass E_{ca} , 500m/reel



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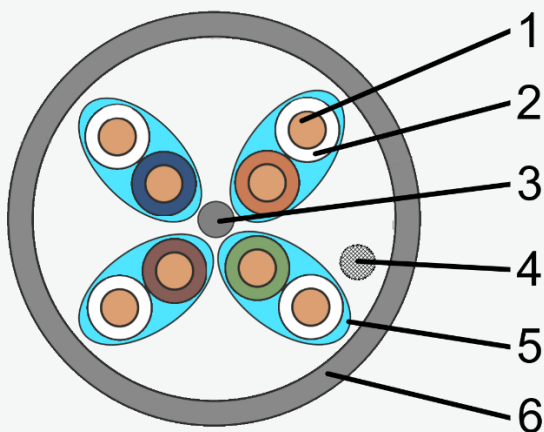
Electrical parameters at 20°C

Voltage	300VDC (not for power applications)
Insulation resistance	≥5000MΩ/km (500VDC/1min Charge)

Technical Performance (100m)

Frequency, MHz	Return loss, dB	Attenuation, dB	NEXT, dB	PS-NEXT, dB	Delay, ns	ELFEXT, dB	PS-ELFEXT, dB
1	20	2,1	74,3	72,3	570	68	65
4	23	3,8	65,3	63,3	552	56	53
8	24,5	5,3	60,8	58,8	546,7	49,9	46,9
10	25	5,9	59,3	57,3	545,4	48	45
16	25	7,5	56,2	54,2	543	43,9	40,9
20	25	8,4	54,8	52,8	542,1	42	39
25	24,3	9,4	53,3	51,3	541,2	40	37
31,25	23,6	10,5	51,9	49,9	540,4	38,1	35,1
62,5	21,5	15	47,4	45,4	538,6	32,1	29,1
100	20,1	19,1	44,3	42,3	537,6	28	25
200	18	27,6	39,8	37,8	536,5	22	19
250	17,3	31,1	38,3	36,3	536,3	20	17
300	16,8	34,3	37,1	35,1	536,1	18,5	15,5
500	15,2	45,3	33,8	31,8	535,6	14	11

Cross-section diagram:



1. Inner Conductor;
2. Insulation;
3. Drain wire;
4. Rip Cord;
5. Aluminium Foil;
6. Sheath.

This document is subject to change without notice. The current version of datasheet is available in our website.