

FTP (F/UTP) cable 4x2x0,53, Category 6, 250 MHz, LSOH, Euroclass E_{ca}

P/N: KE400S23LSOH-Eca

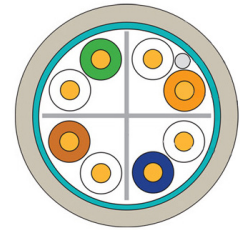
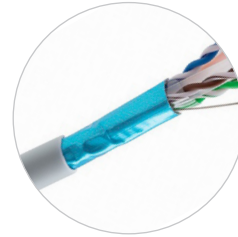
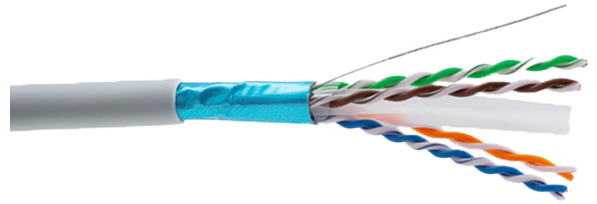
5
Gigabit

Cat. 6

250
MHz

LSOH

E_{ca}



Features

- optimized cable design for 2.5 and 5 Gigabit/s speeds, suitable for WiFi 5
- cable shielded with AL/PET foil, halogen-free sheath
- enables transmission of all high-speed protocols up to 5GBase-T
- defined up to 250MHz

Application

- primary (Campus), secondary (Riser), tertiary (Horizontal)
- IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 2,5GBase-T; 5GBase-T
- IEEE 802.5: 16 MB; ISDN; FDDI; ATM

Construction

Conductor	0,53 mm
Insulation	HD polyethylene, Ø 1.05
Twisting	2 cores to the pair
Pair screen	Al-laminated plastic foil
Cable lay up	4 pairs to the core
Sheath	LSOH, grey RAL 7035
Outer cable diameter	7,0 mm

Reaction to fire and flame resistance

Reaction to fire	E _{ca}	
Fire safety	flame retardancy	IEC 60332-1-2
	smoke performance	IEC 61034-1, IEC 61034-2
	halogen acidity	IEC 60754-2

Mechanical properties

Min. bending radius	installation	56 mm
	operation	28 mm
Temperature range	installation	-15°C to +75 °C
Max. tensile load	installation	100 N (10 kg)
Weight (netto)		41,5 kg / km

Electrical properties at 20°C

Loop resistance	—	≤ 9,38 Ω/ 100 m
Resistance unbalance	—	≤ 2 %
Insulation resistance	(500V)	≥ 5 000 MΩ x km
Capacity unbalance	(pair/ground)	≤ 1600 pF/ km
Characteristic impedance	1 - 100 MHz	(100 ± 5) Ω
Nominal velocity of propagation (NVP)	—	cca 69 %

Transmission properties at 20°C

f (MHz)	attenuation (dB/100m)	NEXT (dB min)	PS-NEXT (dB min)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
4,0	3,5	64,1	61,8	52,1	49,1	21,0
8,0	5,0	59,4	57,0	46,1	43,1	21,0
10,0	5,5	57,8	55,5	44,2	41,2	21,0
16,0	7,0	54,6	52,2	40,1	37,1	20,0
20,0	7,9	53,1	50,7	38,2	35,2	19,5
25,0	8,9	51,5	49,1	36,2	33,2	19,0
31,25	10,0	50,0	47,5	34,3	31,3	18,5
62,5	14,4	45,1	42,7	28,3	25,3	16,0
100,0	18,6	41,8	39,3	24,2	21,2	14,0
200,0	27,4	36,9	34,3	18,2	15,2	11,0
250,0	31,1	35,3	32,7	16,2	13,2	10,0



The determination of Reaction to Fire Class Performance of this cable has been performed by Product Certification Body notified by European Commission, which also carries out the assessment and verification of constant performance (AVCP) in the System 3.