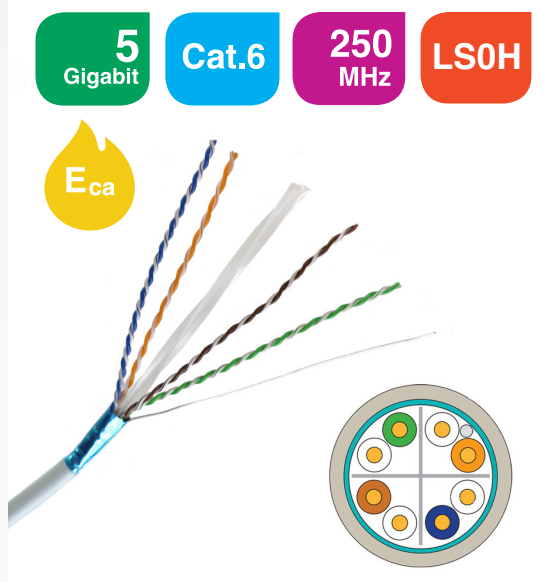


FTP (F/UTP) cable 4x2xAWG23, Category 6, 250MHz, LSOH, Euroclass E_{ca}

P/N: KE400S23LSOH-Eca



features

- complies with the Construction Products Regulation (CPR) EU No. 305/2011 and reaction to fire requirements according to the harmonized standards EN 50575: 2014+A1: 2016
- optimized for WAP and IP cameras systems
- cable shielded with AL/PET foil, halogen-free sheath
- enables transmission of all high-speed protocols up to 5GBASE-T
- characterized 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	AWG23
Insulation	polyethylene, Ø 1.08 ± 0,05mm
Twisting	2 cores to the pair
Screen	Al-laminated plastic foil
Cable lay up	4 pairs to the core
Sheath	LSOH (RAL 7035)
Outer cable diameter	7,3mm

mechanical properties

Min. bending radius	installation	60mm
	operation	30mm
Temperature range	operation	-30°C to +90°C
Max. tensile load		100N (10kg)
Weight (netto)		41,5kg/km

electrical properties at 20°C

Loop resistance	-	≤ 8,8Ω / 100m
Resistance unbalance	-	≤ 2%
Insulation resistance	(300V)	≥ 5000 MΩ x km
Capacity unbalance	(pair/ground)	160pF / 100m
Characteristic impedance	at 100 MHz	(100 ± 5) Ω
Nominal velocity of propagation (NVP)	-	70%
Propagation delay	Nominal	≤ 427 ns / 100 m
Delay skew	Nominal	≤ 45ns / 100m
Test voltage	(DC, 1 min) core/core; core/screen	
Transfer impedance	at 10 MHz	≤ 100 mΩ / m
Coupling attenuation	-	≥ 55 dB

transmission properties at 20°C

f (MHz)	attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
	typ.	typ.	typ.	typ.	typ.	
4,0	3,8	66,3	63,3	56,0	53,0	23,0
8,0	5,4	61,8	58,8	49,9	46,9	24,5
10,0	6,0	60,3	57,3	48,0	45,0	25,0
16,0	7,6	57,2	54,2	43,9	40,9	25,0
20,0	8,5	55,8	52,8	42,0	39,0	25,0
25,0	9,6	54,3	51,3	40,0	37,0	24,3
31,25	10,7	52,9	49,9	38,1	35,1	23,6
62,5	15,5	48,4	45,4	32,1	29,1	21,5
100,0	19,9	45,3	42,3	28,0	25,0	20,1
200,0	29,1	40,8	37,8	22,0	19,0	18,0
250,0	33,0	39,8	36,3	20,0	17,0	17,3