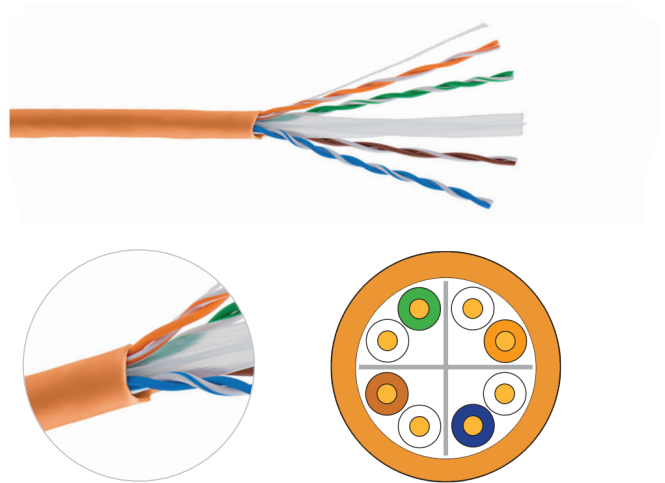


UTP (U/UTP) cable 4x2x0,53, Category 6, 400 MHz, LSOH, Euroclass B2_{ca} - s1a, d1, a1

P/N: KE400U23LSOH-B2ca
500 m on reels

1 Gigabit
Cat. 6
400 MHz
LSOH
B2_{ca}



Features

- unshielded cable with pairs separated by a cross filler, halogen-free sheath
- enables transmission of all high-speed protocols including 1000BASE-T
- tested in a bandwidth up to 400 MHz
- not shielded against electromagnetic interference

Application

- primary (Campus), secondary (Riser), tertiary (Horizontal)
- IEEE 802.3: 10BASE-T; 100BASE-TX; 1000BASE-T
- IEEE 802.5: 16 MB; ISDN; TPDDI; ATM

Construction

Conductor	bare copper wire, 0,53 mm
Insulation	polyethylene, Ø 1,02 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath	LSOH, orange RAL 2003
Outer cable diameter	6,2 mm

Reaction to fire and flame resistance

Reaction to fire	B2 _{ca} – s1a, d1, a1	
Fire safety	flame retardancy	IEC 60332-1-1, IEC 60332-1-2
	smoke performance	IEC 61034-1, IEC 61034-2
	halogen acidity	IEC 60754-2

Mechanical properties

Min. bending radius	installation	50 mm
	operation	25 mm
Temperature range	installation	0 °C to +50 °C
	operation	-20 °C to +60 °C
Max. tensile load	100 N (10 kg)	

Electrical properties at 20°C

Loop resistance	—	≤ 176 Ω/ km
Resistance unbalance	—	≤ 2 %
Insulation resistance	(500 V)	≥ 5 000 MΩ x km
Capacity	at 800 Hz	nom. 48 nF/ km
Capacity unbalance	(pair/ground)	≤ 1500 pF/ km
Characteristic impedance	at 100 MHz	(100 ± 5) Ω
Nominal velocity of propagation (NVP)	—	cca 69 %
Propagation delay	Nominal	≤ 535 ns/ 100 m
Delay skew	Nominal	≤ 45 ns/ 100 m
Test voltage	(DC, 1 min) core/core	1 000 V

Transmission properties at 20°C

f (MHz)	Attenuation (dB/100m)		NEXT (dB min)		PS-NEXT (dB min)		ACR (dB/100m)		PS-ACR (dB/100m)		ELFEXT (dB/100m)		PS-ELFEXT (dB/100m)		Return loss (dB)
	max.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.	nom.	min.
1,0	2,1	1,9	74,0	78,0	72,0	75,0	72,0	76,1	70,0	73,1	68,0	82,0	65,0	80,0	20,0
4,0	3,8	3,8	65,0	69,0	63,0	66,0	61,2	65,2	59,2	62,2	56,0	70,0	53,0	68,0	23,0
10,0	6,0	6,0	59,0	63,0	57,0	60,0	53,0	57,0	51,0	54,0	48,0	62,0	45,0	60,0	25,0
16,0	7,6	7,6	56,0	60,0	54,0	57,0	48,4	52,3	46,4	49,3	44,0	58,0	41,0	56,0	25,0
20,0	8,5	8,5	55,0	59,0	53,0	56,0	46,5	50,0	44,5	47,0	42,0	56,0	39,0	54,0	25,0
31,2	10,7	10,7	52,0	56,0	50,0	53,0	41,3	45,0	39,3	42,0	38,0	52,0	35,0	50,0	23,6
62,5	15,5	15,1	47,0	51,0	45,0	48,0	31,5	36,0	29,5	33,0	32,0	46,0	29,0	44,0	21,5
100,0	19,9	19,1	44,0	48,0	42,0	45,0	24,1	28,9	22,1	25,9	28,0	42,0	25,0	40,0	20,1
125,0	22,5	21,3	43,0	47,0	41,0	44,0	20,5	25,2	18,5	22,2	26,0	40,0	23,0	38,0	19,5
155,5	25,4	23,8	42,0	45,0	40,0	42,0	16,6	21,3	14,6	18,3	24,0	38,0	21,0	36,0	18,8
175,5	27,1	25,3	41,0	44,0	39,0	41,0	13,9	19,1	11,9	16,1	23,0	37,0	20,0	35,0	18,4
200,0	29,2	27,0	40,0	44,0	38,0	41,0	10,8	16,5	8,8	13,5	22,0	36,0	19,0	34,0	18,0
250,0	33,0	32,0	38,0	42,0	36,0	39,0	5,0	10,0	2,0	7,0	20,0	34,0	17,0	32,0	17,3
300,0		36,1		41,0		38,0		4,8		1,8		32,0		30,0	
400,0		41,7		39,0		36,0		-2,7		-5,7		30,0		28,0	



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 1+.