

UTP (U/UTP) cable 4x2x0,54, Category 6, 400 MHz, LSOH, Euroclass D_{ca} - s2, d2, a1



P/N: KE400U23LSOH-Dca-RLX

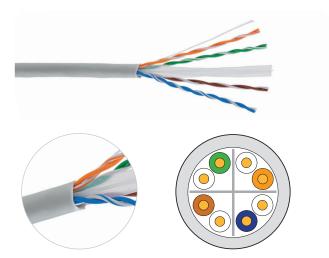












Features

- unshielded cable with pairs separated by a cross filler, halogen-free sheath
- enables transmission of all high-speed protocols including 1000BASE-T
- tested in 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, 0,54 mm	
Insulation	polyethylene, Ø 0,95 mm	
Twisting	2 cores to the pair	
Cable lay up	4 pairs to the core	
Sheath	LSOH, gray RAL 7035	
Outer cable diameter	6 mm	



Reaction to fire and flame resistance						
Reaction to fire	D _{ca} - s2, d2, a1					
	flame retardancy	IEC 60332-1-2				
Fire safety	smoke performance	IEC 61034-1, IEC 61034-2				
	halogen acidicy	IEC 60754-2				

Mechanical propertie	s		
	installation	48 mm	
Min. bending radius	operation	24 mm	
T	installation	0 °C to +50 °C	
Temperature range	operation	-20 °C to +60 °C	
Max. tensile load		100 N (10 kg)	

Loop resistance	_	≤ 176 Ω/ km
Resistance unbalance	_	≤ 2 %
nsulation 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	$(100 \pm 5) \Omega$
Iominal velocity of propagation (NVP)	_	cca 69 %
ropagation delay	Nominal	≤ 535 ns/ 100 m
Delay skew	Nominal	≤ 20 ns/ 100 m
est voltage	(DC, 1 min) core/core	1 000 V



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	

