

UTP (U/UTP) cable 4x2xAWG23, Category 6, 400 MHz, LSOH,



P/N: KE400U23LSOH-Dca-RLX

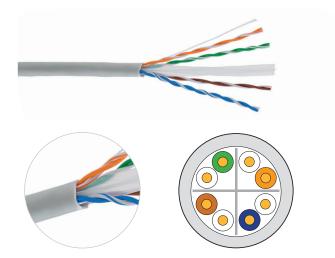












Features

- unshielded cable with pairs separated by a cross filler, halogen-free sheath
- enables transmission of all high-speed protocols including 1000BASE-T
- tested in 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, AWG23
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 properties	s		
Min. bending radius	installation	48 mm	
	operation	24 mm	
Temperature range	installation	0 °C to +50 °C	
	operation	-20 °C to +60 °C	
Max. tensile load		100 N (10 kg)	

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	$(100 \pm 5) \Omega$
Nominal velocity of propagation (NVP)	_	cca 69 %
Propagation delay	Nominal	≤ 535 ns/ 100 m
Delay skew	Nominal	≤ 45 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	

