

## UTP (U/UTP) cable 4x2xAWG23, Category 6, 400 MHz, Euroclass E<sub>ca</sub>

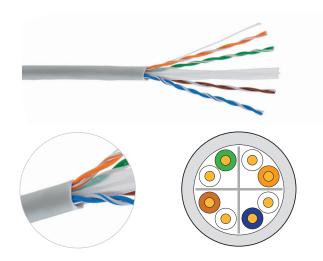
P/N: KE400U23-Eca











## **Features**

- unshielded cable with AL/PET foil, PVC sheath
- enables transmission of all high-speed protocols including 1000BASE-T
- tested in bandwidth up to 400 MHz
- enables RJ45 connectors to be mounted directly to the cable

## **Application**

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

Conductor	bare copper wire, AWG23	
Insulation	polyethylene, Ø 1,00 mm	
Twisting	2 cores to the pair	
Screen	Al-laminated plastic foil	
Cable lay up	4 pairs to the core	
Sheath	PVC, gray RAL 7035	
Outer cable diameter	5,9 mm	



Reaction to fire and flame resistance		
E <sub>ca</sub>		
flame retardancy	IEC 60332-1-2	
smoke performance	_	
halogen acidicy	_	
	E <sub>ca</sub> flame retardancy smoke performance	

Mechanical properties	5		
Min bonding adias	installation	47 mm	
Min. bending radius	operation	24 mm	
Temperature range	installation	0 °C to +50 °C	
	operation	-20 °C to +60 °C	
Max. tensile load		80 N (8 kg)	

Loop resistance	_	≤ 190 Ω/ km
Resistance unbalance	_	≤ 2 %
Insulation resistance	(500V)	≥ 2 000 MΩ x km
Capacity	at 800 Hz	nom. 48 nF/ km
Capacity unbalance	(pair/ground)	≤ 1500 pF/ km
Characteristic impedance	at 100 MHz	$(100 \pm 15) \Omega$
Nominal velocity of propagation (NVP)	_	cca 69 %
Propagation delay	Nominal	≤ 535 ns/ 100 m
Delay skew	Nominal	≤ 20 ns/ 100 m
est voltage	(DC, 1 min) core/core; core/screen	1 000 V
	at 1MHz	≤ 50mΩ/ m
Transfer impendance	at 10MHz	≤ 100mΩ/ m
	at 30MHz	≤ 200mΩ/ m
Coupling attenuation	_	≥ 55dB



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)
1,0	1,9	71,0	68,0	69,1	66,1	68,0	65,0	20,0
4,0	3,7	62,0	59,0	58,3	55,3	56,0	53,0	23,0
10,0	6,0	56,0	53,0	50,0	47,0	48,0	45,0	25,0
16,0	7,6	53,0	50,0	45,4	42,4	44,0	41,0	25,0
20,0	8,5	51,0	48,0	42,5	39,5	42,0	39,0	25,0
31,2	10,7	49,0	46,0	38,3	35,3	38,0	35,0	24,0
62,5	15,7	44,0	41,0	28,3	25,3	32,0	29,0	22,0
100,0	19,8	41,0	38,0	21,2	18,2	28,0	25,0	20,0
125,0	22,3	40,0	37,0	17,7	14,7	26,0	23,0	19,0
155,5	24,2	38,0	35,0	13,8	10,8	24,0	21,0	_
175,5	25,7	37,0	34,0	11,3	8,3	23,0	20,0	_
200,0	27,5	36,0	33,0	8,5	5,5	22,0	19,0	_
250,0	29,2	35,0	32,0	5,8	2,8	20,0	17,0	_
300,0	32,0	34,0	31,0	2,0	-1,0	16,0	13,0	_

