

UTP (U/UTP) cable 4x2xAWG23, Category 6, 400 MHz, Euroclass E_{ca}

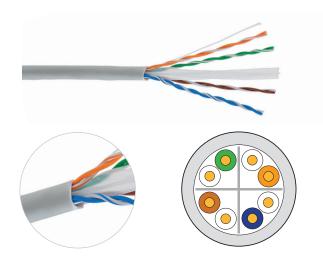
P/N: KE400U23-Eca











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

Construction		
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		
Reaction to fire	E _{ca}	
	flame retardancy	IEC 60332-1-2
Fire safety	smoke performance	_
	halogen acidicy	-

Mechanical propertie	s	
Min. bending radius	installation	47 mm
	operation	24 mm
T	installation	0 °C to +50 °C
Temperature range	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	_