

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

P/N: [KE400U23LSOH-Dca](#)

500m on reels

P/N: [KE400U23LSOH-Dca-RLX](#)

305m in a box



features

- complies with the Construction Products Regulation (CPR) EU No. 305/2011 and reaction to fire requirements according to the harmonized standards EN 50575: 2014+A1: 2016
- 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 400MHz
- 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, 0,54mm
Insulation	polyethylene, Ø 0,95mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath	LSOH, gray RAL7035
Outer cable diameter	6mm

reaction to fire and fire safety

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

mechanical properties

Min. bending radius	installation	48mm
	operation	24mm
Temperature range	installation	0°C to +50°C
	operation	-20°C to +60°C
Max. tensile load	100N (10kg)	
Weight (netto)	36kg/km	

electrical properties at 20°C

Conductor resistance	-	≤ 176Ω/km
Resistance unbalance	-	≤ 2%
Insulation resistance	(500V)	≥ 5000MΩ x km
Capacity	at 800Hz	nom. 48nF/km
Capacity unbalance	(pair/ground)	≤ 1500pF/km
Characteristic impedance	at 100MHz	(100 ± 5) Ω
Nominal velocity of propagation (NVP)	-	cca 69%
Propagation delay	Nominal	535ns/100m
Delay skew	Nominal	20ns/100m
Test voltage	(DC, 1min) core/core; core/screen	1000V

transmission properties at 20°C

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



This product is certified on a component level by 3P international independent laboratories according to ISO/IEC 11801:2017 (Ed.1.0), IEC 61156-5:2012, EN 50288-6-1:2013, EN 50173-1:2018, EN 50288-6-1:2013, ANSI/TIA 568.2-D:2018 (Ed. 2.1), IEC 60332-1-2, IEC 61034-1, IEC 61034-2 incl. Amd.1, IEC 60754-2.

Mass production of this product is under permanent supervision of third party international laboratories performing 3P SURVEILLANCE maintenance testing and quality assurance sites



The determination of Reaction to Fire Class Performance of this cable has been performed by Product Certification Body notified by European Commission.