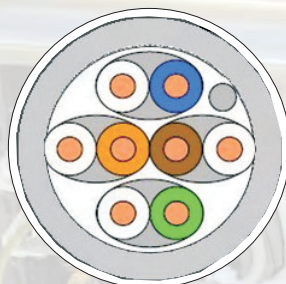




KELine® Category 6A STP 4x2xAWG23, LSOH

Genuine Cat.6A interoperable component !



Features

The cable meets the strictest requirements defined for high speed data transmission. Functionality is guaranteed for all standardized applications including 10Gigabit ETHERNET.

Application

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T
IEEE 802.5 16 MB; ISDN; FDDI; ATM
High bandwidth digital applications with low BER

Standards

ISO/IEC 11801 2nd edition: 2002
ISO/IEC 11801 2nd edition Amendment 2, Category 6_A
ANSI/TIA 568-C.2 Category 6A
EN 50173-1:2007
IEC 61156-5: Edition 2.0 2009:02

Flame resistance

Low smoke, zero halogen (LSOH/LSZH): IEC 60332-1; IEC 60754-2; IEC 61034

Construction

Conductor	bare copper wire, \varnothing 0.56 mm (AWG23)
Insulation	foamskin polyethylene, \varnothing 1.3 mm
Twisting	2 cores to the pair
Pair screen	high performance STP: Al-laminated plastic foil, drain wire AWG26 tinned
Cable lay up	4 pairs to the core
Sheath	LSOH (LSZH), grey RAL 7035

Mechanical properties

Bending radius	installation	8 x outer diameter
	installed	4 x outer diameter
Temperature range	installed	-20°C upto + 60°C
	installation	0°C upto + 50°C

Electrical properties		at 20°C
Loop resistance		≤ 154Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 2000 MΩxkm
Mutual capacitance	at 800 Hz	nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Characteristic impedance	(1-100 MHz)	(100 ± 15) Ω
	(100 - 250) MHz	(100 ± 18) Ω
Coupling Attenuation	Type II (≥55dB@100MHz)	Alien crosstalk (ANEXT, AFEXT) is proven by design
Nominal velocity of propagation		ca. 76%
Propagation delay	Nominal	≤ 450 ns/100 m
Delay skew	Nominal	≤ 15 ns/100 m
Test voltage	(DC, 1 min) core/core; core/screen	1000V
Transfer impedance	at 1 MHz	≤ 50 mΩ/m
	at 10 MHz	≤ 100 mΩ/m
	at 30 MHz	≤ 200 mΩ/m
	at 100 MHz	≤ 1000 mΩ/m

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)
1,0	1,9	100	97	97	94	103	100	-
4,0	3,5	100	97	96	93	103	100	26
10,0	5,5	100	97	94	91	96	93	29
16,0	6,9	100	97	92	89	92	90	29
20,0	7,8	100	97	91	88	90	87	29
31,2	9,7	100	97	89	86	86	83	28
62,5	13,8	100	97	85	82	80	77	27
100,0	17,7	99	96	82	80	76	73	25
125,0	19,6	94	91	74	71	74	71	24
155,5	22,3	93	90	71	68	72	69	24
175,0	23,4	92	89	69	66	72	69	23
200,0	25,3	91	88	66	63	70	67	23
250,0	28,7	89	86	61	58	68	65	22
300,0	32,3	88	85	57	54	66	63	22
400,0	38,0	86	83	47	45	63	60	21
500,0	43,3	84	81	39	36	60	57	20

Technical data								
Product code	Designation	Brand name	Color	Outer diameter (mm)	Fire load MJ/km	kWh/m	Weight (kg/km)	Tensile force (N)
KE500S23/1E	STP 4x2xAWG23	KELine®	Grey	7,4	501	0,139	57	100

Related products

Product code	
KE1200HS23	KELine® Multimedia Category 7A, S/FTP 4x2xAWG23, 1200MHz, LSOH
KEJ-C6A-S-10G	KELine® Category 6A Keystone Jack RJ45/s
KEP-C6A-S-10G	KELine® Category 6A Patch panel 24xRJ45/s
KEL-C6A-P-xxx	KELine® Category 6A patch cable STP - xm, LSOH, xxx - length
601120-UP	KELine® Category 6A outlet module 45 x 45 Modulo45, for 2 x KEJ-C6A-S-10G
601140-UP	KELine® Category 6A outlet module 50 x 50 Modulo50, for 2 x KEJ-C6A-S-10G