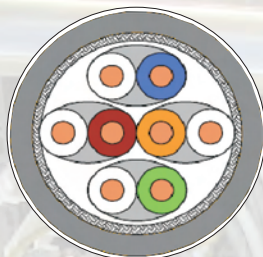




KELine[®] Multimedia Category 7_A, S/FTP 4x2xAWG23, 1200MHz, LSOH
Genuine Cat.7A & Cat.6A interoperable and backward compatible component !



Features

The cable is capable to distribute all existing multimedia applications and highest data rates. One of the few representants of 1200MHz cables fulfilling the strictest criteria for Category 7_A defined by ISO/IEC 11801: Amendment 2. Thanks to double shield and braid with 60% optical coverage the cable can be used in environments with the highest level of electromagnetic hazard.

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
Multimedia transmissions like digital and analog video and voice. *(For specific protocol related details contact your supplier.)*

Standards

ISO/IEC 11801 2nd Edition Amendment 2: Category 7_A
ANSI/TIA 568-C.2
EN 50173-1
EN 50288-4-1
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, AWG23
Insulation	foamskin polyethylene, Ø 1.45 mm
Twisting	2 cores to the pair
Pair screen	high performance STP: Al-laminated plastic foil
Cable lay up	4 pairs to the core
Overall screen	copper braid, tinned , coverage 60%
Sheath	LSOH (LSZH), grey RAL 7035

Mechanical properties

Bending radius	installation	≥ 70 mm
	installed	≥ 30 mm
Temperature range	operation	-40°C upto + 70°C
	installation	0°C upto + 60°C

Electrical properties at 20°C

Frequency Range		1-1200 MHz
Coupling attenuation		Type I (≥85dB@100MHz)
Resistance unbalance		≤ 2%
Max. DC resistance		65 Ωxkm
Capacitance unbalance		1,2 pF/m max.
Nominal velocity of propagation		78%
Propagation delay skew		20 ns/100 m max.
Dielectric strength		700V/minute
Dielectric strength to shield		700V/minute
min. Insulation resistance		5 GΩxkm

Transmission properties at 20°C

f (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	PS-ANEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	1,8	103,0	100,0	100,0	110,0	108,0	31,0
4,0	3,2	103,0	100,0	100,0	108,0	105,0	31,0
10,0	4,9	103,0	100,0	100,0	103,0	100,0	31,0
20,0	7,0	103,0	100,0	100,0	93,0	90,0	31,0
30,0	8,6	103,0	100,0	100,0	93,0	90,0	31,0
100,0	15,7	103,0	100,0	100,0	88,0	85,0	31,0
150,0	19,4	103,0	100,0	95,0	87,0	84,0	26,0
200,0	22,5	98,0	95,0	95,0	83,0	80,0	26,0
250,0	25,3	96,0	93,0	92,0	81,0	78,0	25,0
300,0	27,8	95,0	92,0	92,0	78,0	75,0	25,0
400,0	32,3	94,0	91,0	92,0	73,0	70,0	23,0
500,0	36,3	93,0	90,0	90,0	72,0	69,0	23,0
600,0	40,0	92,0	89,0	90,0	71,0	68,0	23,0
1000,0	52,7	88,0	85,0	90,0	70,0	67,0	21,0
1200,0	54,5	85,0	82,0	88,0	68,0	65,0	19,0

Technical data

Product code	Designation	Brand name	Color	Outer diameter (mm)	Fire load MJ/km	kWh/m	Weight (kg/km)	Tensile force (N)
KE1200HS23	S/FTP 4x2xAWG23	KELine®	Grey	7,9	590	0,170	66	130

Related products

Product code	
KE500S23/1	KELine® Category 6A STP 4x2xAWG23, 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