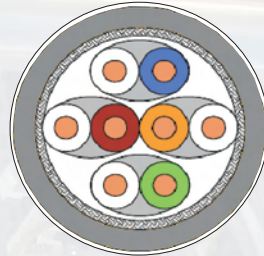




KELine[®] Multimedia Category 7_A, S/FTP 4x2xAWG23, 1200MHz, LSOH
Genuine Cat.7A & Cat.6A interoperable and backward compatible component !



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 |