



## K-DATA LIHCH T.P. DIN 47100 UL CSA

**Description :** EMC-compliant, American multi-conductors Halogen Free pairs twisted data transmission cables with copper braid screening and DIN 47100 colour code

**Design:**



**Construction :**

Flexible bare copper conductors according to CEI 20-29 Class 5 and DIN-VDE 0295 K5  
Halogen free FRPE insulation compound according to UL 1581, type **TI6** according to HD 21.14 S1 annex A

DIN 47100 coloured coded cores

Cores twisted in pairs and pairs twisted in layers

Polyester Tape

Tinned copper wires braiding with coverage 85%

Halogen free FRPE outer sheath compound according to UL 1581 and type **TM7** according to HD 21.14 S1 annex B

**Manufacturing's Controls:**

Test and Control according to our certificated **ISO 9001-2015 CSQ-IMQ (EQ-NET)** Quality System procedure.

Labor tests reports are stored in our internal Q.C. laboratory archive together with the production reports

**Norms :**

Flame-retardant according to IEC 60332-1-2 (flame spread on a single cable)

No flame-propagation according to IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)

Halogen-free according to IEC 60754-1 (amount of halogen acid gas)

Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)

Low smoke density according to IEC 61034

According to UL Style 10615 and 21217

The cable is conform to Low Voltage Directive (LVD) 2014/35/EU CE

**Technical dates :**

- Nominal voltage : 600 V
- Spark Test voltage : 6000 V
- Mutual capacitance :  
C/C approx. 80 nF/km  
C/S approx. 120 nF/km
- Inductivity : Approx. 0.65 mH/km
- Working temperature:  
Occasional flexing: -15°C to +75°C  
Fixed installation: -40°C to +75°C
- Minimum bending radius  
Occasional flexing: 20 x outer Ø  
Fixed installation: 6 x outer Ø

**Use :**

Used for computer systems, MSR technology, office machinery, scales - screened cables with small dimensions. Data transmission with good screening, twisted pairs (TP) decouples the cable circuits. Good protection against the capacitive influence due to electric fields (e.g. power cable). Environmentally friendly, EMC-compliant, Halogen-Free is suitable for areas with a high density of people, e.g. public buildings or transport systems, as well as high-value property that must be protected in case of fire.