KCINDUSTRIE

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**UNI EN ISO 9001-2015 Certified Company**

**Data Sheet**

# K-DATA PLUS LIY-CY T.P. DIN 47100

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| Description : | EMC compliant, drag chain application, multi-conductors pairs twisted data transmission cables with copper braid screening and DIN 47100 colour code |
| Design: |  |
| Construction : | Extra Flexible bare copper conductors according to CEI 20-29 Class 6 and DIN-VDE 0295 K6<br>PVC Insulation compound type **TI1** according to CEI 20-11 and VDE 0207<br>DIN 47100 coloured coded cores<br>Cores twisted in pairs and pairs twisted in layers, nonwoven tape over each pair and over the outer layer<br>Tinned copper screening with coverage 85% ± 5%<br>Outer jacket in transparent or grey PVC **TM2** according to CEI 20-11 and VDE 0207 |
| Manufacturing's Controls: | Test and Control according to our certificated **ISO 9001-2015** CSQ-IMQ (EQ-NET) Quality System procedure.<br>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.<br>Oil-resistant according to EN 50290-2-22:2001 (TM54)<br>The cable is conform to Low Voltage Directive (LVD) 2014/35/EU CE |

| Technical dates : | | |
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| | • Nominal voltage : | 300/500V |
| | • Spark Test voltage : | 3000 V |
| | • Mutual capacitance : | C/C approx. 120 nF/km<br>C/S: approx. 160 nF/km |
| | • Inductivity | Approx. 0.50 mH/km |
| | • Specific insulation resistance: | > 20 GOhm x cm |
| | • Working temperature: | Fixed installation: -40°C to +80°C<br>Occasional flexing: -5°C to +70°C |
| | • Minimum bending radius | For flexible use: 8 x outer Ø<br>Fixed installation: 4 x outer Ø |

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| Use : | This cable is suitable to be used in power chains or moving machine parts as link and connection control cable. It's suitable for up to 6 million bending/unbending cycles in the power chain applications. For travel distances up to 9 mt. 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). |

01 August 2019