



## K-PLUS 9600 CP CHAIN

**Description :** EMC-compliant, increased oil-resistant, control and power supply single core cables, for use in power chains or moving machine parts.

**Design:**



**Construction :** Extra Flexible bare copper conductors according to CEI 20-29 Class 6, DIN-VDE 0295 K6, IEC 60228 Cl.6.  
TPE-V Polypropylene and EPDM based elastomer insulation compound  
Black, Green Yellow or other colours coded core  
Nonwoven tape  
Tinned copper screening with coverage 85% ± 5%  
Nonwoven tape over the outer layer  
Special halogen-free, partly flame retardant PUR outer sheath, matt and low adhesive surface

**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 :**

High oil-resistance - Abrasion and notch-resistant - Low-adhesive surface

Resistant to hydrolysis and microbes

UV resistant according HD 605 A1

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

Flame-retardant according to IEC 60332-1-2, CSA FT2, UL HB

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

**Technical dates :**

- Nominal voltage: 600/1.000 V
- Spark Test voltage: 6000 V
- Fixed installation working temperature: -40°C to + 80°C
- Flexing working temperature: -20°C to + 80°C
- Fixed installation minimum bending radius = 4 x cable Ø
- Chain installation minimum bending radius = 8 x cable Ø
- Max Speed Unsupported 3 m/s  
gliding 2 m/s
- Max Acceleration 20 m/s<sup>2</sup>

**Use :** These power single core cables are especially suitable for export-orientated machinery. In power chains or moving machine parts. This cable can substitute multi-core power cables where space requirements or minimum bending radii cause problems.

Designed for 3 million alternating bending cycles and horizontal travel distances up to 10 meter. It can be used also in fix or occasional flexing installation, in dry, damp and wet interiors. (including water-oil mixtures).