



## K-PLUS 9963 CP

**Description :** EMC-compliant Chain and robotic applications, TPE-E (polyester basis) insulated and PUR sheathed control and power cable manufactured for working voltage till 600/1000V.

**Design:**



**Construction :**

Extra Flexible bare copper conductors according to CEI 20-29 Class 6 and DIN-VDE 0295 K6  
TPE-E (polyester based) insulation compound  
Black numbered cores with or without GY core.  
Nonwoven tape over the outer layer  
Tinned copper screening with coverage 85% ± 5%  
Nonwoven tape  
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  
Ozone resistant according VDE 0472 part 805 and 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  
The cable is conform to Low Voltage Directive (LVD) 2014/35/EU CE

**Technical dates :**

- Nominal voltage : 600/1000 V
- Spark Test voltage : 3000 V
- Working temperature : Flexing: -40°C to +90°C  
Fixed installation: -50°C to +90°C
- Minimum bending radius : For flexible use: 12 x outer diameter  
Fixed installation: 4 x outer diameter
- Torsion: ± 90°/m

**Use :**

Designed for 5 million alternating bending cycles and horizontal travel distances up to 10 meter.  
Suitable for use in power chains, moving machine parts, and simultaneous bending and torsion applications, particularly in wet or oil contaminated areas of machine tools and transfer lines.  
Suitable for use in measuring, control and regulating circuits so as in wiring of machines, tools, devices, appliances and control cabinets. Suitable for outdoor use within the indicated operating temperature range.