



## K-PLUS 9909 BUNDLES TPE C UL CSA

**Description :** EMC-compliant, chain application, polypropylene insulated and TPE sheathed control and power supply cable manufactured for working voltage of 1000 V.

**Design:**



**Construction :** Extra Flexible bare copper conductors according to CEI 20-29 Class 6 and DIN-VDE 0295 K6  
Polypropylene insulation compound according to VDE 0250, Part 215, type 9YI2 and CEI-EN 60811-4-2  
Black numbered cores + GY core  
From 2 to 7 cores twisted in one layer, from 9 to 42 cores twisted in bundles and bundles twisted in layer.  
Talc powder between twisted cores and bundles and inner sheath.  
Inner sheath in special TPE compound.  
Tinned copper wires braiding shielding with coverage of 85%  
Special TPE-V Polypropylene and EPDM based jacket compound, 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 :** Oil Resistant according to EN 60811-1-2:1995  
Hydrolysis-resistant to warm and hot water  
Good chemical resistance to ester-based hydraulic fluids  
Ozone resistant according to VDE 0472 part 805 and UV resistant according to 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  
According to UL style 21387 and CSA-AWM I A/B II A/B  
The cable is conform to Low Voltage Directive (LVD) 2014/35/EU CE

**Technical dates :**

- Nominal voltage : 1000 V
- Spark Test voltage : 6000 V
- Working temperature : Flexing: -25°C to +90°C (UL 80°C)  
Fixed installation: -40°C to +90°C (UL 80°C)
- Minimum bending radius : For flexible use: 7 x outer diameter  
Fixed installation: 4 x outer diameter
- Max speed ( unsupported - gliding ) 10 m/s - 5 m/s
- Max acceleration 60 m/s<sup>2</sup>

**Use :** UL and CSA approved Control Cable especially for European and American markets.  
Designed for 1 up to 3 million bending/unbending cycles ( 2-8 cores 1 mil. - 9 cores and over 3 mil. ), appropriate for use in power chains or moving machine parts, for travel distances up to 50 m, with a max speed of 10 m/S with max acceleration of 80m/S. Suitable for use in measuring, control and regulating circuits so as in wiring of machines, tools, devices, appliances and control cabinets. The copper braid serves as electromagnetic screen between the internal electric circuits and the environment. Only for outdoor use within the indicated operating temperature range, with UV-protection