KCINDUSTRIE

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UNI EN ISO 9001-2015 Certified Company

Data Sheet

K-SERVO PLUS 3500 9Y C CP UL CSA

Description :	Drag chain application, UL AWM approved, EMC-compliant, Low capacity screened motor connection cable with black coded cores, 0.6/1kV.
Design:	
Construction :	Extra Flexible bare copper conductors according to CEI 20-29 Class 6 and DIN-VDE 0295 K6 Special PP Thermo-Plastic insulation compound Power Black coded cores (U/L1/C/L+ ; V/L2 ; W/L3/D/L) + GY core N. 1 control pair black numbered (5 + 6). Taped with nonwoven tape and shielded with tinned copper wires braiding under polyester tape. Nonwoven Tape Tinned copper wires braiding with coverage 85% Nonwoven Tape Flame Retardant special 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:	According to UL styles 20940 and CSA-AWM I A/B II A/B 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 : 1.000V. • Spark Test voltage : 10.000 V • Working temperature: Chain: -25°C to +90°C (UL 80°C) Flexing: -40°C to +90°C (UL 80°C) Fixed installation: -50°C to +90°C (UL 80°C) • Minimum bending radius Flexing: 8 x outer Ø Chain: 10 x outer Ø Fixed installation: 4 x outer Ø • Max speed (unsupported – gliding) 10 m/s - 5 m/s • Max acceleration 50 m/s²
Use :	Servo motors are frequently assembled to combine signal and supply cables. Control pairs for motor temperature and/or brake function monitoring are for instance integrated. The advantages are: saving space and weight, easy to assemble, reliability and stability. Wherever drives form a single unit together with cable, frequency converter and motor, and the potential for electromagnetic interference is high because of this. Suitable for Automotive systems, Machine tool manufacturing, Production plants. 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 10 mt. Predominantly installed in dry, damp or wet environments.

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