



K-SERVO PLUS 3500 9Y C CY 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
Special PVC outer sheath compound 90°C type TM5 Oil Resistant according to CEI 20-11, VDE 0207 and UL 758

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: Flame retardant, Test method B according to DIN VDE 0472 part 804, IEC 60332-1, IEC 60332-3-24 and CSA FT1
Oil-resistant according to EN 50363-4-1: TM5
According to UL styles 2570 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 : 1.000V.
- Spark Test voltage : 6000 V
- Working temperature: Chain: +5°C to +80°C
Flexing: -5°C to +80°C
Fixed installation: -40°C to +80°C
- Minimum bending radius Flexing: 7 x outer Ø
Chain: 8 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.