



## K-SERVO PLUS 3500 9Y C CY

**Description :** Drag chain application, combined power supply and resolver/encoder feedback low capacitance cable, for motor connections

**Design:**



**Construction :**

Extra flexible bare copper conductors according to CEI 20-29 Class 6 and DIN-VDE 0295 K6  
PP Insulation compound with special mechanical resistance - Power cores black with white numbers or code + G.Y., Control cores black numbered or DIN 47100 colour coded.  
Control cores twisted in pairs, taped with nonwoven tape, screened with tinned copper wires braiding with coverage of 85% and taped over screen with nonwoven tape  
Power cores and control pairs twisted together with eventual central and external polypropylene fillers  
Nonwoven tape  
Total tinned copper wires braiding with coverage of 85%  
Nonwoven tape  
PVC outer sheath compound 70°C type TM2 according to CEI 20-11, VDE 0207

**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 and IEC 60332-1  
Oil resistant according: DIN EN 50290-2-22 resp. VDE 0819-102, TM54.  
The cable is conform to Low Voltage Directive (LVD) 2014/35/EU CE

**Technical dates :**

- Nominal voltage : Power cores 600/1.000 V.
- Spark Test voltage : Feedback pairs 300/500 V.
- Working temperature : 6000 V
- Minimum bending radius : Flexing: -5°C to +70°C
- Fixed installation: -40°C to +80°C
- For flexible use: 7 x outer Ø
- Fixed installation: 4 x outer Ø

**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.  
Designed for up to 4 million bending/unbending cycles inside power chains. For travel distances up to 60 mt. Suitable for use in power chains, moving machine parts, particularly in wet or oil contaminated areas of machine tools and transfer lines.