



K-SERVO 3 2YSLCH

Description : Halogen Free, EMC-compliant, Low capacity double screened motor connection cable with coloured cores, 0.6/1kV.

Design:



Construction : Flexible bare copper conductors according to CEI 20-29 Class 5 and DIN-VDE 0295 K5
PE Insulation compound
Colour code according to DIN VDE 0293
Cores twisted concentrically, symmetrically split protective conductors gusset-filling divided between the power cores
Aluminium Polyester Tape
Tinned copper wires braiding with coverage 75%±5%
Halogen Free outer sheath compound type TM7 according to CEI 20-11 and 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:

EMC-compliant installation of power drive systems conforming to EN 61800-3
Flame-retardant according to IEC 60332-1-2 (flame spread on a single cable)
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 : 600/1000V
- Spark Test voltage : 6000 V
- Max. permissible peak AC voltage U 2.4 kV
- Transfer impedance: <= 30 Ohm/km
- Working temperature: Occasional flexing: -15°C to +70°C
Fixed installation: -40°C to +80°C
- Max temperature on copper conductors +120°C
- Minimum bending radius Occasional flexing: 20 x outer Ø
Fixed installation: 6 x outer Ø

Use : 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.

Advantage: The double screened motor connecting cable with low operating capacitance of the PE single wires and low screen capacitance enable a low-loss power transmission in comparison with conventional PVC connecting cables. The version with protective conductor split into three has a further improved, symmetrical 3-wire structure in comparison with the 4-wire versions with respect to the EMC properties because the cores of the protective conductor are arranged between the gussets. This also allows a concentric structure.