SERVO cables in acc. to SIEMENS® Standard 6FX 8PLUS

Motor and resolver/encoder cables

Allows much faster speed and accelerations which increases the economic efficiency of the machines; Multi-standard approval reduces part varieties and saves costs

- Extended Line for heavy duty in power chain applications
- EMC-compliant

Product description

Application range

- Connecting cable between servo controller and encoder/resolver
- Connecting cable between servo controller and motor
- For use in assembling & pick-and-place machinery
- Particularly in wet areas of machine tools and transfer lines
- Assembly lines, production lines, in all kinds of machines

Benefits

- Allows much faster speed and accelerations which increases the economic efficiency of the machines
- Multi-standard approval reduces part varieties and saves costs

Product Make-up

- Extra-fine strand made of copper wires:
  > Signal cables: tinned
  > Power cables: bare
- Core insulation: polypropylene (PP)
- Tinned-copper braiding
- PUR outer sheath
- Signal cables: green (RAL 6018)
- Servo cable: orange (RAL 2003)

Norm references / Approvals

- Power cable:
  VDE-registered
  UL AWM Style 21223
  CSA AWM I/II, A/B 1000 V 80° FT 1
- Sensor leads: UL/CSA AWM Style 20236

- For horizontal travel distances up to 100m
- For use in power chains: Please comply with the assembly guidelines listed in Appendix T3
- UL File No. E63634

Product features

- Abrasion and cut-resistant, halogen-free, oil-resistant
- Flame-retardant according to IEC 60332-1-2 & CSA FT1
- Designed for 5 up to 10 million bending/unbending cycles in the power chain

Technical Data

Conductor stranding	Extra-fine wire according to VDE 0295, class 6/IEC 60228 class 6
Minimum bending radius	Power cable: Fixed: 4 x D Dynamic: 1.5 mm² - 16 mm²: 7.5 x D 25 mm² - 50 mm²: 10 x D Signal cable: Fixed: 4 x D Dynamic: 8 x D
Nominal voltage	Signal cables: 30 V AC/DC Power cable: - Power cores: 600/1000 V (IEC) 1000 V (UL/CSA) - Control cores: 24 V AC/DC (IEC) 1000 V (UL/CSA)
Test voltage	Power cable: 4 KV Signal cables: 500 V
Temperature range	Flexing: -20°C to +60°C Fixed installation: -50°C to +80°C