

Continuous Flex Servo Cable

This servo cable is designed for connecting motors and converters in CNC machine tools and automation equipment. It is suitable for drag chains and frequent movement in high-temperature environments with electrical interference.



Overview

Continuous Flex Servo Cable

This high-performance servo cable is engineered specifically for demanding industrial environments requiring continuous movement. Featuring ultra-fine stranded bare copper conductors and robust PVC insulation, it offers excellent flexibility, oil resistance, and heat resistance. With superior EMC shielding and flame retardancy, this cable ensures reliable data transmission in drag chains and robotic systems.

Electrical Specifications

Rated Voltage

600 V

UL/CSA

300 V

IEC/VDE (d0.5mm²)

450 V

IEC/VDE (>0.5mm²)

Test Voltage

4000V/min (AC) core/core and core/shield

Insulation Resistance

e2M@M (at 20°C)

Mechanical Performance

Minimum Bending Radius

- Fixed Application: 4D (D=Cable diameter)
- Mobile Application: 7.5D (D=Cable diameter)

Drag Chain Life Cycle

8000000 cycles

Environmental & Safety

Temperature Range

- Fixed Application: -40°C to 105°C
- Occasional Movement: -5°C to 105°C

Certifications & Compliance

UL2586, VW-1, FT1

Cable Construction

Material Composition

Component	Material/Specification
Conductor	Ultra-fine stranded bare copper (IEC 60228/VDE 0295 class 6)
Insulation	PVC
Shielding	Control pair tinned copper braiding, tinned copper overall braiding
Jacket	PVC (Gray, RAL 7001)