

Multi-Conductor Control Cable for CNC Machines

This control cable can be used as a signal cable in the low voltage systems of CNC machine tools, engraving machines, woodworking machines, and other automated equipment. It is suited for drag chain applications or where frequent movement occurs and serious electrical interference is present.



Product Overview

High-Performance Control Cable

This multi-conductor control cable is engineered specifically for demanding CNC machine environments. Featuring a flexible construction with fine stranded bare copper conductors, it ensures reliable signal transmission in dynamic applications. With excellent oil resistance and flame retardant properties, this cable is designed to withstand harsh industrial conditions while maintaining performance in drag chains.

Electrical Ratings

Rated Voltage	300 V
Test Voltage	2000 V/min
Insulation Resistance	e10MΩm

Mechanical Performance

Drag Chain Life

3 million
Min Cycles

8 million
Max Cycles

Min. Bending Radius (Fixed)	4D
Min. Bending Radius (Mobile)	7.5D

Operating Environment

Temperature Range (Fixed)	-40°C to 80°C
Temperature Range (Mobile)	-5°C to 70°C

Construction Details

Cable Construction Specifications

Component	Details
Conductor	Fine stranded bare copper (IEC 60228/VDE 0295 class 6)
Insulation	PVC
Insulation Color	DIN 47100
Shielding	Tinned copper braiding
Jacket	PVC (Grey, RAL 7001)

Standards & Compliance

Certifications

UL2464, IEC 60332-1

Key Features

Key Properties

- Flame resistance
- High flexibility
- Small bending radius
- Oil resistance
- EMI resistance