Motor Cables Data Sheet

Compatible with drives in extra-low voltage 72 VDC (ELV) technology, we use the following motor cable raw materials for linear motors and rotary servo drives.

type of cable raw materials	description	outer diameter [mm]	minimal static bending radius [mm]	minimal dynamic bending radius [mm]
K05	standard cable	8,2	25	-/-
K15 (1V1)	standard cable	11,8	50	-/-
KS05	trailing chain cable	9,5	30	60
KS10 (1V1)	trailing chain cable	10,8	50	100
KR05[1])	robotic cable	9,7	30	60
KR10[1])	robotic cable	11,1	50	100

[1]) On demand

Cable Lengths
The above specified cable materials are special cables with an special shielding. The maximum technically possible cable length is 30 m. We deliver in 1 m increments, starting at 1 m.

Operational Life
Trailing chain cables have an approximate operational life of 10 million bending cycles. This specification is strongly dependent on the method of cable installation, the cable chain type and the environmental conditions.

Cable Break
A cable break can lead to the destruction of the motor, as well as the positioning controller.

Maintenance and Prevention
We suggest thorough maintenance with regular preventive exchange intervals for trailing chain cables. A purely optical inspection is not sufficient. For applications with long motor cables we offer short, cost-effective 'abrasion cables', with coupling plugs suitable for cable chains.