



USE OF CABLE

Robotic servo and motor cable for complex, highly flexible motion sequences in industrial applications (e.g. power chains, gantry robots, pick and place units, conveyor systems, machine tools, automatic. Manufacturing systems etc.).

For harsh environments (indoor & outdoor) with highest mech. stress, at the same time bending and torsion.



SPECIAL FEATURES

- low adhesion
- resistant to hydrolysis, microbes, cooling fluids, grease and lubricants
- resistant to oil acc. to IEC 60811-2-1
- UV-resistant
- halogen-free acc. to IEC 60754-1
- EMC compliant shielding (C-PUR)
- due to UL/CSA approval up to 1000 V parallel laying with other cables with identical current voltage is permitted

REMARKS

- conform to RoHS
- conform to 2014/35/EU-Guideline ("Low-Voltage Directive") CE
- LABS-/silicone-free (during production)
- special versions, other dimensions, core and jacket colours according to your specifications on request.

PRODUCT INFORMATION

Conductor material:	Bare copper strand
Conductor class:	Super fine wire acc. to IEC 60228 Kl. 6 Sp. 4
Core insulation:	TPE
Core identification:	Supply cores: BK with numerals 1, 2, 3 and GNYE; control cores: BK with numerals 5, 6
Stranding:	Control cores twisted to pair, with sliding tape
Shield:	Control cores: extremely torsion resistant spiral shield of tinned copper wires under sliding tape
Overall stranding:	Low torsion structure: supply cores and control pair twisted
Shield3:	Extremely torsion resistant spiral shield of tinned copper wires over sliding tape
Outer sheath:	PUR
Sheath colour:	Black (RAL 9005)
Rated voltage:	IEC: 0,6/1 kV; UL&CSA: 1.000 V
Testing voltage:	Min. 2 kV
Current-carrying-capacity:	Acc. to DIN VDE
Min. bending radius fixed:	4 x d
Min. bending radius moved:	7,5 x d < 10 m TL 10 x d ≥ 10 m TL Torsion: 10 x d
Operat. temp. fixed min/max:	-50 °C / +80 °C
Operat. temp. moved min/max:	-30 °C / +80 °C, Torsion: -25 °C / +80 °C
Burning behavior:	Flame-retardant acc. to IEC 60332-1-2, VW-1, FT1
Torsion:	+/- 180 °/m
Approvals:	UL/CSA: cURus - 1.000V, 80°C
Speed:	Self-supporting: max. 10 m/s, gliding: max. 5 m/s Torsion: max.180 °/s
Acceleration:	Max. 20 m/s² Torsion: max. 60 °/s²

ITEM OVERVIEW

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1505350	4 G 1,5 + (2 X 0,5)	10,7	107,00	177,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR SERVO 0,6/1 KV UL/CSA
1505337	4 G 2,5 + (2 X 0,5)	11,8	145,00	210,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR SERVO 0,6/1 KV UL/CSA

KAWEFLEX KINEMATICS® 3D Servo 0,6/1kV UL/CSA

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1505339	4 G 4 + (2 X 0,5)	13,5	262,00	336,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR SERVO 0,6/1 KV UL/CSA
1505351	4 G 1,5 + (2 X 1)	11,0	127,00	210,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR SERVO 0,6/1 KV UL/CSA
1505338	4 G 2,5 + (2 X 1)	12,3	149,00	246,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR SERVO 0,6/1 KV UL/CSA
1505340	4 G 4 + (2 X 1)	14,0	241,00	100,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR SERVO 0,6/1 KV UL/CSA