KAWEFLEX KINEMATICS® 3D Hybrid UL/CSA

USE OF CABLE

Robotic Hybrid 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 hydrolisis, 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)
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

PRODUCT INFORMATION

Conductor material:	Bare copper strand
Conductor class:	Super fine wire acc. to IEC 60228 cl. 6 pt. 4
Core insulation:	TPE
Core identification:	≥ 0,5 mm²: white cores with black numerals, G: with GNYE, ≤ 0,34 mm²: coloured acc. to DIN 47100
Stranding:	≤ 11 cores: stranded in layers, ≥ 12 cores: stranded in bundles, elements or pairs stranded separately, each element with sliding tape
Shield:	C-elements: extremely torsion resistant spiral shield of tinned copper wires under sliding tape
Overall stranding:	Cores & elements stranded together
Shield3:	C-PUR: 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: 1.000 V
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
1505347	16 G 1 + (2 X 1)	16,0	207,00	317,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR HYBRID 0,6/1 KV UL/CSA
1505348	23 G 1 + (2 X 1)	19,5	351,00	459,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR HYBRID 0,6/1 KV UL/CSA
1505349	(5 G 2,5 + (6 X 1,5)C + 4 X (2 X 0,25)C)C	17,5	340,00	450,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR HYBRID 0,6/1 KV UL/CSA