



## USE OF CABLE

Robotic Measuring & System cable (MeSys) 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.).

> feedback - encoder - resolver - speedo sensor - signal - system  
<

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 300 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, 0,38 mm <sup>2</sup> : tinned
Conductor class:	Super fine wire acc. to IEC 60228 cl. 6 pt. 4
Core insulation:	TPE
Core identification:	Acc. to system specification (on request)
Stranding:	Cores twisted to pairs or in layers, each element with sliding tape
Shield:	C-elements: extremely torsion resistant spiral shield of tinned copper wires under sliding tape
Overall stranding:	Elements stranded together
Shield3:	Extremely torsion resistant spiral shield of tinned copper wires over sliding tape
Outer sheath:	PUR
Sheath colour:	Black (RAL 9005) or green (RAL 6018)
Rated voltage:	300 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 VW   10 x d ≥ 10 m VW   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 - 300V, 80°C
Speed:	Self-supporting: max. 10 m/s, gliding: max. 5 m/s   Torsion: max.180 °/s

## ITEM OVERVIEW

Product No.	Dimension [n x mm <sup>2</sup> ]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1505341	(3 X (2 X 0,14)C + 4 X 0,14 + 2 X 0,5)C	10,2	64,00	120,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR MeSys (TP) UL/CSA
1505342	(3 X (2 X 0,14)C + 2 X (0,5)C)	10,5	68,00	118,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR MeSys (TP) UL/CSA
1505343	(3 X (2 X 0,14)C + 4 X 0,14 + 4 X 0,25 + 2 X 0,5)C	10,9	79,00	154,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR MeSys (TP) UL/CSA
1505344	(4 X 2 X 0,25 + 2 X 0,5)C	8,2	52,00	95,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR MeSys (TP) UL/CSA

# KAWEFLEX KINEMATICS® 3D Measure & System cable UL/CSA

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1505345	(4 X 2 X 0,14 + 4 X 0,5)C	8,7	53,00	92,00	black	V1: KAWEFLEX KINEMATICS 3D-C-PUR MeSys (TP) UL/CSA
1505346	(2 X 2 X 0,20 + 1 X 2 X 0,38)C	7,5	48,00	73,00	green	V1: KAWEFLEX KINEMATICS 3D-C-PUR MeSys (TP) UL/CSA