



## USE OF CABLE

Robotic Control & Power cable (C&P) 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 cl. 6 pt. 4
Core insulation:	TPE
Core identification:	Black cores with white numerals, G: with GNYE
Overall stranding:	≤ 11 cores stranded in layers, ≥ 12 cores stranded in bundles; each element with sliding tapes
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&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:	3D-PUR: +/- 360 °/m, 3D-C-PUR: +/- 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/s <sup>2</sup>   Torsion: max. 60 °/s <sup>2</sup>

## 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
1505356	5 G 0,5 (AWG 21)	7,5	25,00	66,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505257	12 G 0,5 (AWG 21)	10,8	60,00	156,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505258	16 G 0,5 (AWG 21)	11,2	80,00	266,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505259	18 G 0,5 (AWG 21)	12,0	90,00	180,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505260	25 G 0,5 (AWG 21)	14,2	125,00	282,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505358	3 G 0,75 (AWG 19)	6,5	23,00	52,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505261	4 G 0,75 (AWG 19)	6,2	30,00	62,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505359	5 G 0,75 (AWG 19)	7,3	38,00	72,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505262	7 G 0,75 (AWG 19)	8,2	53,00	102,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505263	12 G 0,75 (AWG 19)	11,8	90,00	187,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505264	14 G 0,75 (AWG 19)	12,5	105,00	225,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA

# KAWEFLEX® KINEMATICS® 3D Control & Power 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
1505360	18 G 0,75 (AWG 19)	13,3	135,00	253,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505361	25 G 0,75 (AWG 19)	15,8	188,00	361,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505265	2 X 1 (AWG 18)	6,8	20,00	66,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505266	3 G 1 (AWG 18)	7,0	30,00	63,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505267	4 G 1 (AWG 18)	7,4	40,00	92,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505362	5 G 1 (AWG 18)	8,0	50,00	94,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505268	7 G 1 (AWG 18)	9,2	70,00	145,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505269	12 G 1 (AWG 18)	13,3	120,00	230,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505270	18 G 1 (AWG 18)	15,2	180,00	333,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505271	25 G 1 (AWG 18)	18,2	250,00	480,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505272	34 G 1 (AWG 18)	21,0	340,00	598,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505273	41 G 1 (AWG 18)	23,2	410,00	747,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505274	3 G 1,5 (AWG 16)	7,4	45,00	82,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505275	4 G 1,5 (AWG 16)	8,2	60,00	112,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505276	5 G 1,5 (AWG 16)	8,5	75,00	121,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505277	7 G 1,5 (AWG 16)	10,8	105,00	188,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505278	8 G 1,5 (AWG 16)	11,8	120,00	213,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505279	12 G 1,5 (AWG 16)	14,0	180,00	301,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505280	18 G 1,5 (AWG 16)	16,9	270,00	469,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505281	25 G 1,5 (AWG 16)	19,4	375,00	621,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505282	3 G 2,5 (AWG 14)	9,3	75,00	119,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505283	4 G 2,5 (AWG 14)	9,9	100,00	170,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505363	5 G 2,5 (AWG 14)	10,6	125,00	187,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505364	7 G 2,5 (AWG 14)	12,6	175,00	262,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505365	12 G 2,5 (AWG 14)	17,7	300,00	519,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505285	4 G 4 (AWG 12)	11,7	160,00	251,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505286	4 G 6 (AWG 10)	13,2	240,00	331,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505287	3 G 10 (AWG 8)	16,1	300,00	407,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505288	3 G 16 (AWG 6)	18,6	480,00	497,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505289	3 G 25 (AWG 4)	23,1	750,00	949,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505290	3 G 35 (AWG 2)	25,6	1050,00	1275,00	black	V1: KAWEFLEX KINEMATICS 3D-PUR C&P 0,6/1 kV UL/CSA
1505291	12 G 0,5 (AWG 21)	11,4	120,00	178,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505292	18 G 0,5 (AWG 21)	13,6	135,00	250,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505293	25 G 0,5 (AWG 21)	15,0	259,00	351,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505294	12 G 0,75 (AWG 19)	14,2	140,00	216,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505295	18 G 0,75 (AWG 19)	15,9	205,00	304,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505296	25 G 0,75 (AWG 19)	17,1	346,00	419,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505297	3 G 1 (AWG 18)	7,1	47,00	89,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505298	12 G 1 (AWG 18)	13,4	192,00	269,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505299	18 G 1 (AWG 18)	15,2	251,00	396,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505300	25 G 1 (AWG 18)	16,6	351,00	547,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505335	4 G 1,5 (AWG 16)	9,0	82,00	136,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505336	5 G 1,5 (AWG 16)	9,7	97,00	160,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA

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1505301	12 G 1,5 (AWG 16)	16,3	263,00	349,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505302	18 G 1,5 (AWG 16)	20,4	373,00	491,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505303	25 G 1,5 (AWG 16)	22,6	500,00	715,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505304	4 G 2,5 (AWG 14)	10,4	124,00	188,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA
1505305	5 G 2,5 (AWG 14)	11,3	152,00	226,00	black	V2: KAWEFLEX KINEMATICS 3D-C-PUR C&P 0,6/1 kV UL/CSA