



## USE OF CABLE

as shielded, single core, double sheathed motor connection cable for highly flexible applications (e.g. cable drag chains, gantry robots, pick&place units, conveyor systems, machine tools, automatic conveyor systems) manufacturing systems, test systems, etc.) for normal electrical and mechanical requirements. Suitable for use in dry, humid and wet environments as well as outdoors.



These single-core cables can replace multi-core cables when space constraints or minimum bending radii cause problems.

## SPECIAL FEATURES

- UL/CSA approval
- low adhesion, silicone-free
- UV-resistant (version with black outer jacket)
- oil resistant according to EN 60811-404 (mineral oil only), EN 50290-2-22 TM54
- largely resistant to greases, coolants and lubricants
- recommended for EMC-compatible applications
- due to 1.000 V UL/CSA approval parallel laying with other 1.000 V cables is permitted.

## REMARKS

- conform to RoHS
- conform to 2014/35/EU-Guideline ("Low-Voltage-Directive") CE
- We are pleased to produce special designs, other dimensions, cross-sections, core and sheath colours on request.

## PRODUCT INFORMATION

Conductor material:	Bare copper strand
Conductor class:	Super fine wires acc. to IEC 60228 cl. 6
Core insulation:	PVC
Core identification:	Black
Shield:	Copper braid tinned, opt. coverage approx. 85 %
Outer sheath:	PVC
Sheath colour:	Black, RAL 9005
Rated voltage:	IEC: 600/1.000 V, UL: 1.000 V
Testing voltage:	4 kV
Conductor resistance:	At +20 °C acc. to IEC 60228 cl. 6
Min. bending radius fixed:	5 x d
Min. bending radius moved:	10 x d
Operat. temp. fixed min/max:	-40 °C / +90 °C
Operat. temp. moved min/max:	-5 °C / +90 °C
Burning behavior:	Self-extinguishing & flame-retardant acc.to IEC 60332-1, UL: VW-1, CSA: FT-1
Resistant to oil:	Acc. to ISO 6722, EN 60811-404 (only mineral oil), EN 50290-2-22 TM54
Approvals:	UL/CSA - cURus 1.000 V, 90°C
Speed:	Max. 120 m/min
Acceleration:	Max. 20 m/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
1505636	1 X 1,5 (AWG 16)	4,9	31,00	56,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505637	1 X 2,5 (AWG 14)	5,1	38,00	63,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505638	1 X 4 (AWG 12)	5,8	57,00	81,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505639	1 X 6 (AWG 10)	6,7	79,00	111,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505640	1 X 10 (AWG 8)	8,3	125,00	170,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505641	1 X 16 (AWG 6)	9,6	194,00	245,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505642	1 X 25 (AWG 4)	11,4	287,00	356,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505643	1 X 35 (AWG 2)	13,6	407,00	502,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505644	1 X 50 (AWG 1)	16,3	561,00	721,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505645	1 X 70 (AWG 2/0)	18,6	771,00	957,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA

Product No.	Dimension [n x mm²]	Outer-Ø [mm]	Cu-Index [kg/km]	Weight [kg/1.000]	sheath colour	Variant
1505646	1 X 95 (AWG 3/0)	20,0	1013,00	1205,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505647	1 X 120 (AWG 4/0)	21,3	1261,00	1443,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505648	1 X 150 (250 MCM)	23,9	1566,00	1805,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505649	1 X 185 (350 MCM)	26,5	1919,00	2233,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505650	1 X 240 (450 MCM)	30,2	2512,00	2881,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA
1505651	1 X 300 (550 MCM)	32,6	3104,00	3492,00	black	V1: KAWEFLEX 5278 SC SK-C-PVC 0,6/1 KV UL/CSA