



for normal requirements, 300/500V (IEC), 600V (UL: AWM)  
unshielded, grey, UL/CSA



### APPLICATION

Highly flexible, shielded power and control cable for EMC-compliant connecting at high electrical and normal mechanical requirements in drag chains and motion drive systems in machine and plant engineering.



### SPECIAL FEATURES

- UL/CSA approval, DESINA-compliant.
- Low-adhesion, silicone-free.
- Flame-retardant according to IEC 60332-1-2, FT1, VW-1.
- Oil-resistant in accordance with DIN EN 60811-404 (mineral oil only).
- Largely resistant to grease, coolants and lubricants.
- UL/CSA approval up to 600 V allows parallel installation with other cables, which also carry an operating voltage of up to 600 V is permitted.

### REMARKS

- RoHS compliant.
- Compliant with the 2014/35/EU Directive ("Low Voltage Directive") CE.
- LABS-/silicone-free (during production).
- Recommended for EMC-compliant use.

### PRODUCT DETAILS

#### DESIGN

<b>Conductor material</b>	bare copper strand
<b>Conductor class</b>	acc. to IEC 60228 cl. 6
<b>Core insulation</b>	PVC
<b>Core identification</b>	acc. to DIN VDE 0293, black cores with white numerals with GNYE from 3 cores
<b>Stranding</b>	stranded in layers
<b>Overall shielding</b>	copper braid tinned, coverage approx. 85%
<b>Outer sheath material</b>	PVC
<b>Outer sheath color</b>	grey, RAL 7001

#### ELECTRICAL PROPERTIES

<b>Rated voltage</b>	300/500 V (IEC), 600 V (UL: AWM)
<b>Testing voltage</b>	core/core: 4 kV, core/shield: 2 kV
<b>Conductor resistance</b>	acc. to IEC 60228 cl. 6
<b>Insulation resistance</b>	at +20 °C $\geq 20 \text{ M}\Omega \times \text{km}$
<b>Current carrying capacity</b>	acc. to DIN VDE

#### MECHANICAL & DYNAMIC PROPERTIES

<b>Min. bending radius fixed</b>	4 x d
<b>Min. bending radius moved</b>	7,5 x d < 10 m TL   10 x d $\geq 10$ m TL
<b>Traverse speed</b>	self-supporting: max. 5 m/s, gliding: max. 2,5 m/s
<b>Traverse length</b>	max. 25 m
<b>Acceleration</b>	max. 10 m/s <sup>2</sup>
<b>Bending cycles</b>	up to 5 Mio.

#### THERMAL PROPERTIES

<b>Operat. temp. fixed min/max</b>	-40 °C / +90 °C
<b>Operat. temp. moved min/max</b>	-5 °C / +90 °C

#### FIRE BEHAVIOR

<b>Burning behavior</b>	flame-retardant acc. to IEC 60332-1-2, FT1, VW-1
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## STANDARDS &amp; APPROVALS

## Approvals

UL/CSA - cURus 600V, 90°C

## ITEM OVERVIEW

**KAWEFLEX® 6210 SK-C-PVC UL/CSA**

Item no.	Dimension [n x mm <sup>2</sup> ]	Conductor structure	Outer-Ø [mm] nom.	Outer-Ø [inch] nom.	Weight [≈lbs/mft]
1504763	2 X 0,5 (AWG 21)	▶ AWG 21 (~ 28/AWG 34) - 0,5 mm <sup>2</sup>	5,6	0,221	37,6
1504764	3 G 0,5 (AWG 21)	▶ AWG 21 (~ 28/AWG 34) - 0,5 mm <sup>2</sup>	6,0	0,236	49,1
1504765	4 G 0,5 (AWG 21)	▶ AWG 21 (~ 28/AWG 34) - 0,5 mm <sup>2</sup>	6,4	0,252	55,8
1504766	5 G 0,5 (AWG 21)	▶ AWG 21 (~ 28/AWG 34) - 0,5 mm <sup>2</sup>	7,0	0,276	62,5
1504767	7 G 0,5 (AWG 21)	▶ AWG 21 (~ 28/AWG 34) - 0,5 mm <sup>2</sup>	8,5	0,335	86,7
1504768	12 G 0,5 (AWG 21)	▶ AWG 21 (~ 28/AWG 34) - 0,5 mm <sup>2</sup>	9,6	0,378	129,7
1504769	18 G 0,5 (AWG 21)	▶ AWG 21 (~ 28/AWG 34) - 0,5 mm <sup>2</sup>	11,5	0,453	184,8
1504770	25 G 0,5 (AWG 21)	▶ AWG 21 (~ 28/AWG 34) - 0,5 mm <sup>2</sup>	13,7	0,540	240,6
1504771	36 G 0,5 (AWG 21)	▶ AWG 21 (~ 28/AWG 34) - 0,5 mm <sup>2</sup>	16,2	0,638	301,7
1504772	2 X 0,75 (AWG 19)	▶ AWG 19 (~ 42/AWG 34) - 0,75 mm <sup>2</sup>	6,0	0,236	49,1
1504773	3 G 0,75 (AWG 19)	▶ AWG 19 (~ 42/AWG 34) - 0,75 mm <sup>2</sup>	6,4	0,252	55,8
1504774	4 G 0,75 (AWG 19)	▶ AWG 19 (~ 42/AWG 34) - 0,75 mm <sup>2</sup>	6,9	0,272	64,5
1504775	5 G 0,75 (AWG 19)	▶ AWG 19 (~ 42/AWG 34) - 0,75 mm <sup>2</sup>	7,6	0,299	82,0
1504776	7 G 0,75 (AWG 19)	▶ AWG 19 (~ 42/AWG 34) - 0,75 mm <sup>2</sup>	9,0	0,355	118,9
1504777	12 G 0,75 (AWG 19)	▶ AWG 19 (~ 42/AWG 34) - 0,75 mm <sup>2</sup>	10,4	0,410	157,2
1504778	18 G 0,75 (AWG 19)	▶ AWG 19 (~ 42/AWG 34) - 0,75 mm <sup>2</sup>	12,5	0,493	225,8
1504779	25 G 0,75 (AWG 19)	▶ AWG 19 (~ 42/AWG 34) - 0,75 mm <sup>2</sup>	14,9	0,587	296,4
1504780	36 G 0,75 (AWG 19)	▶ AWG 19 (~ 42/AWG 34) - 0,75 mm <sup>2</sup>	17,0	0,670	397,8
1504781	42 G 0,75 (AWG 19)	▶ AWG 19 (~ 42/AWG 34) - 0,75 mm <sup>2</sup>	18,5	0,729	464,4
1504782	2 X 1 (AWG 18)	▶ AWG 18 (~ 56/AWG 34) - 1 mm <sup>2</sup>	6,3	0,248	53,8
1504783	3 G 1 (AWG 18)	▶ AWG 18 (~ 56/AWG 34) - 1 mm <sup>2</sup>	6,8	0,268	62,5
1504784	4 G 1 (AWG 18)	▶ AWG 18 (~ 56/AWG 34) - 1 mm <sup>2</sup>	7,2	0,284	82,0
1504785	5 G 1 (AWG 18)	▶ AWG 18 (~ 56/AWG 34) - 1 mm <sup>2</sup>	8,0	0,315	93,4
1504786	7 G 1 (AWG 18)	▶ AWG 18 (~ 56/AWG 34) - 1 mm <sup>2</sup>	9,6	0,378	138,4
1504787	12 G 1 (AWG 18)	▶ AWG 18 (~ 56/AWG 34) - 1 mm <sup>2</sup>	11,3	0,445	195,6
1504788	18 G 1 (AWG 18)	▶ AWG 18 (~ 56/AWG 34) - 1 mm <sup>2</sup>	13,7	0,540	278,2
1504789	25 G 1 (AWG 18)	▶ AWG 18 (~ 56/AWG 34) - 1 mm <sup>2</sup>	16,1	0,634	364,2
1504790	2 X 1,5 (AWG 16)	▶ AWG 16 (~ 84/AWG 34) - 1,5 mm <sup>2</sup>	6,9	0,272	61,8
1504791	3 G 1,5 (AWG 16)	▶ AWG 16 (~ 84/AWG 34) - 1,5 mm <sup>2</sup>	7,4	0,292	82,7
1504792	4 G 1,5 (AWG 16)	▶ AWG 16 (~ 84/AWG 34) - 1,5 mm <sup>2</sup>	8,0	0,315	96,8
1504793	5 G 1,5 (AWG 16)	▶ AWG 16 (~ 84/AWG 34) - 1,5 mm <sup>2</sup>	9,0	0,355	129,7
1504794	7 G 1,5 (AWG 16)	▶ AWG 16 (~ 84/AWG 34) - 1,5 mm <sup>2</sup>	10,6	0,418	166,0
1504795	12 G 1,5 (AWG 16)	▶ AWG 16 (~ 84/AWG 34) - 1,5 mm <sup>2</sup>	12,5	0,493	238,6
1504796	18 G 1,5 (AWG 16)	▶ AWG 16 (~ 84/AWG 34) - 1,5 mm <sup>2</sup>	15,4	0,607	358,8
1504797	25 G 1,5 (AWG 16)	▶ AWG 16 (~ 84/AWG 34) - 1,5 mm <sup>2</sup>	18,2	0,717	469,7
1504798	36 G 1,5 (AWG 16)	▶ AWG 16 (~ 84/AWG 34) - 1,5 mm <sup>2</sup>	21,1	0,831	632,4
1504799	42 G 1,5 (AWG 16)	▶ AWG 16 (~ 84/AWG 34) - 1,5 mm <sup>2</sup>	22,8	0,898	738,5
1504800	3 G 2,5 (AWG 14)	▶ AWG 14 (~ 124/AWG 34) - 2,5 mm <sup>2</sup>	8,9	0,351	113,6
1504801	4 G 2,5 (AWG 14)	▶ AWG 14 (~ 124/AWG 34) - 2,5 mm <sup>2</sup>	9,6	0,378	155,2
1504802	5 G 2,5 (AWG 14)	▶ AWG 14 (~ 124/AWG 34) - 2,5 mm <sup>2</sup>	10,9	0,429	192,9
1504803	7 G 2,5 (AWG 14)	▶ AWG 14 (~ 124/AWG 34) - 2,5 mm <sup>2</sup>	13,3	0,524	259,4
1504804	12 G 2,5 (AWG 14)	▶ AWG 14 (~ 124/AWG 34) - 2,5 mm <sup>2</sup>	15,7	0,619	321,9
1504805	4 G 4 (AWG 12)	▶ AWG 12 (~ 224/AWG 34) - 4 mm <sup>2</sup>	11,3	0,445	215,0
1504807	4 G 6 (AWG 10)	▶ AWG 10 (~ 182/AWG 32) - 6 mm <sup>2</sup>	13,8	0,544	293,7
1504809	4 G 10 (AWG 8)	▶ AWG 8 (~ 301/AWG 32) - 10 mm <sup>2</sup>	17,7	0,697	474,4
1504810	4 G 16 (AWG 6)	▶ AWG 6 (~ 483/AWG 32) - 16 mm <sup>2</sup>	21,1	0,831	680,1