



USE OF CABLE

as highly flexible, power and control cable for high electrical and increased mechanical requirements in drag chains and motion drive systems in machine and plant engineering.



SPECIAL FEATURES

- UL/CSA approved, conform to DESINA
- low adhesion, silicone-free
- UV-resistant
- flame-retardant acc. to IEC 60332-1-2, FT1
- oilresistant acc. to DIN EN 60811-404
- largely resistant to grease, coolant fluids and lubricants
- due to 600 V UL/CSA approval parallel laying with other 600 V cables is permitted

REMARKS

- conform to RoHS and 2014/35/EU-Guideline ("Low-Voltage Directive") CE
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.
- NEW: with reduced outer diameters, for smaller design, lower bending radii and lower weight; up from production date January 2020

PRODUCT INFORMATION

| | |
|------------------------------|--|
| Conductor material: | Bare copper strand |
| Conductor class: | Acc. to DIN VDE 0295 class 6 pt. 4 resp. IEC 60228 cl. 6 pt. 4 |
| Core insulation: | PVC |
| Core identification: | Acc. to DIN VDE 0293 black wires with white numerals, 1 x GNYE |
| Overall stranding: | Cores stranded in layers |
| Outer sheath: | PUR |
| Sheath colour: | Grey RAL 7001 |
| Rated voltage: | Acc. to IEC: 300/500 V acc. to UL: 600 V |
| Testing voltage: | 4 kV |
| Conductor resistance: | At +20 °C acc. to DIN VDE 0295 cl. 6 resp. IEC 60228 cl. 6 |
| Insulation resistance: | At +20 °C $\geq 20 \text{ M}\Omega \times \text{km}$ |
| 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 $\geq 10 \text{ m TL}$ |
| Operat. temp. fixed min/max: | -40 °C / +80 °C |
| Operat. temp. moved min/max: | -5 °C / +80 °C |
| Burning behavior: | Flame-retardant acc. to IEC 60332-1-2, FT1 |
| Approvals: | UL/CSA - cURus 600V, 80°C |
| Speed: | Self-supporting: max. 6 m/s, gliding: max. 3 m/s |
| Acceleration: | Max. 10 m/s ² |

ITEM OVERVIEW

| Product No. | Dimension [n x mm ²] | Outer-Ø [mm] | Cu-Index [kg/km] | Weight [kg/1.000] | sheath colour | Variant |
|-------------|----------------------------------|--------------|------------------|-------------------|---------------|---------------------------------|
| 1505072 | 2 X 0,5 (AWG 21) | 5,1 | 9,60 | 40,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505073 | 3 G 0,5 (AWG 21) | 5,5 | 14,40 | 50,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505074 | 4 G 0,5 (AWG 21) | 5,9 | 19,20 | 62,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505075 | 5 G 0,5 (AWG 21) | 6,5 | 24,00 | 73,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505076 | 7 G 0,5 (AWG 21) | 7,9 | 33,60 | 105,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505077 | 12 G 0,5 (AWG 21) | 9,4 | 57,60 | 143,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505078 | 18 G 0,5 (AWG 21) | 11,4 | 86,40 | 223,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505079 | 25 G 0,5 (AWG 21) | 13,5 | 120,00 | 307,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |

KAWEFLEX® 6120 SK-PUR UL/CSA

| Product No. | Dimension [n x mm²] | Outer-Ø [mm] | Cu-Index [kg/km] | Weight [kg/1.000] | sheath colour | Variant |
|-------------|---------------------|--------------|------------------|-------------------|---------------|---------------------------------|
| 1505080 | 2 X 0,75 (AWG 19) | 5,5 | 14,40 | 48,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505081 | 3 G 0,75 (AWG 19) | 5,9 | 21,60 | 61,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505082 | 4 G 0,75 (AWG 19) | 6,4 | 28,80 | 77,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505083 | 5 G 0,75 (AWG 19) | 7,1 | 36,00 | 92,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505084 | 7 G 0,75 (AWG 19) | 8,6 | 50,40 | 131,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505085 | 12 G 0,75 (AWG 19) | 10,4 | 86,40 | 187,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505086 | 18 G 0,75 (AWG 19) | 12,5 | 129,60 | 293,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505087 | 25 G 0,75 (AWG 19) | 14,9 | 180,00 | 399,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505088 | 2 X 1 (AWG 18) | 5,8 | 19,20 | 57,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505089 | 3 G 1 (AWG 18) | 6,3 | 28,80 | 73,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505090 | 4 G 1 (AWG 18) | 6,7 | 38,40 | 92,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505091 | 5 G 1 (AWG 18) | 7,7 | 48,00 | 116,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505092 | 7 G 1 (AWG 18) | 9,4 | 67,20 | 164,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505093 | 12 G 1 (AWG 18) | 11,1 | 115,20 | 234,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505094 | 18 G 1 (AWG 18) | 13,5 | 172,80 | 363,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505095 | 25 G 1 (AWG 18) | 15,9 | 240,00 | 499,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505096 | 2 X 1,5 (AWG 16) | 6,4 | 28,80 | 72,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505097 | 3 G 1,5 (AWG 16) | 6,9 | 43,20 | 92,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505098 | 4 G 1,5 (AWG 16) | 7,7 | 57,60 | 117,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505099 | 5 G 1,5 (AWG 16) | 8,6 | 72,00 | 147,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505100 | 7 G 1,5 (AWG 16) | 10,6 | 100,80 | 210,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505101 | 12 G 1,5 (AWG 16) | 12,5 | 172,80 | 303,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505102 | 18 G 1,5 (AWG 16) | 15,2 | 259,20 | 478,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505103 | 25 G 1,5 (AWG 16) | 18,2 | 360,00 | 666,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505104 | 3 G 2,5 (AWG 14) | 8,5 | 72,00 | 146,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505105 | 4 G 2,5 (AWG 14) | 9,4 | 96,00 | 191,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505106 | 5 G 2,5 (AWG 14) | 10,7 | 120,00 | 239,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505107 | 7 G 2,5 (AWG 14) | 12,9 | 168,00 | 338,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505108 | 12 G 2,5 (AWG 14) | 15,5 | 288,00 | 499,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505109 | 3 G 4 (AWG 12) | 10,1 | 115,20 | 211,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505110 | 4 G 4 (AWG 12) | 11,1 | 160,00 | 275,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505114 | 5 G 4 (AWG 12) | 12,7 | 192,00 | 344,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505115 | 3 G 6 (AWG 10) | 12,4 | 172,80 | 301,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505111 | 4 G 6 (AWG 10) | 13,6 | 230,40 | 393,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505116 | 5 G 6 (AWG 10) | 15,5 | 288,00 | 497,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505112 | 4 G 10 (AWG 8) | 17,7 | 384,00 | 680,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505117 | 5 G 10 (AWG 8) | 20,0 | 480,00 | 847,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505113 | 4 G 16 (AWG 6) | 20,8 | 614,40 | 1005,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |
| 1505118 | 5 G 16 (AWG 6) | 23,7 | 768,00 | 1254,00 | grey | V1: KAWEFLEX 6120 SK-PUR UL/CSA |