



Description:

Highly flexible installation cable with the fine-stranded Alukaflex® conductor, like class 5. Halogen-free, UV-stabilized, CPR-class Dca (Eca for 10-35 mm²).

Application:

When high flexibility, work environment, and fire properties according to Dca are required. For permanent fixed electrical installations indoors and outdoors, as well as for burial. Less suitable for installations with continuous sun exposure or laying in water. Alukaflex ECO is listed for building materials to be used in Nordic Swan-labeled constructions. Current values according to EN 60364-52-2. Installation guidelines must be followed and can be obtained from DanCables.

| | | |
|--|---|----------------|
| Conductor | Highly flexible aluminium, like IEC 60228 Class 5 | |
| Insulation | XLPE (not UV-protected) | |
| Conductor marking | Colour code acc. to HD 308 | |
| Filler | Halogen free | |
| Sheath | Light grey. halogen free, UV-resistant | |
| Sheath marking | Alukaflex ECO "no. of cores" X/G "cross-section" mm ² 0,6/1 kV Dca CE DanCables "year/week" "continuous meter marking" | |
| Ambient temp. at installation | Min -5°C | |
| Operating temperature | -25 ~ +90°C | |
| Core temperature | Max. 90°C | |
| Short circuit temperature | Max. 250°C | |
| Min. Bending radius | 6 x cable-diameter | |
| Rated voltage AC: U ₀ /U(U _m) | 0,6/1(1,2) kV | |
| Rated voltage DC: U ₀ (U _{0,max.})/U(U _m) | 0,75(0,9)/1,5(1,8) kV | |
| Test voltage | 3,5 kV | |
| CPR fire class | 1 core 25 - 500 mm ² | Dca-s2, d2, a1 |
| | 4/5 core 50 - 500 mm ² | Dca-s1, d2, a1 |
| | 4/5 core 10 - 35 mm ² | Eca |
| Halogen free | IEC 60754-1 | |
| Smoke density | IEC 61034 -2 | |
| Flame spread single cables | EN 60332-1 | |
| REACH | Approved (no substances above 0.1% w/w) | |
| RoHS | Complies with the directive | |
| Approval | CE-marked acc. to Low Voltage Directive | |
| Design | IEC 60502 | |

Alukaflex ECO Highly Flexible Inst. Cable

ver.: 2025.01



| Part No. | Dimension | Drum Length | Cable Nominel Diameter mm. | Cable Weight kg./km. |
|----------|-----------|-------------|----------------------------|----------------------|
| 50100000 | 1X25 | T500 | 12,6 | 169 |
| 50100010 | 1X35 | T500 | 14,4 | 209 |
| 50100020 | 1X50 | T500 | 15,8 | 266 |
| 50100030 | 1X70 | T500 | 17,6 | 352 |
| 50100040 | 1X95 | T500 | 19,7 | 437 |
| 50100050 | 1X120 | T500 | 21,7 | 540 |
| 50100060 | 1X150 | T500 | 24,4 | 668 |
| 50100070 | 1X185 | T1800 | 26,8 | 806 |
| 50100080 | 1X240 | T1400 | 29,6 | 999 |
| 50100090 | 1X300 | T1200 | 32,6 | 1218 |
| 50100100 | 1X400 | T900 | 36,6 | 1597 |
| 50100110 | 1X500 | T500 | 41 | 1966 |
| 50099500 | 4X10 | T500 | 18,4 | 348 |
| 50099505 | 4X16 | T500 | 22,3 | 489 |
| 50099510 | 4X25 | T500 | 26,4 | 684 |
| 50099515 | 4X35 | T500 | 30,6 | 877 |
| 50100150 | 4X50 | T500 | 33,3 | 1108 |
| 50100155 | 4G50 | T500 | 33,3 | 1108 |
| 50100160 | 4X70 | T500 | 37,6 | 1485 |
| 50100165 | 4G70 | T500 | 37,6 | 1485 |
| 50100170 | 4X95 | T500 | 42,9 | 1882 |
| 50100175 | 4G95 | T500 | 42,9 | 1882 |
| 50100180 | 4X120 | T500 | 47,6 | 2347 |
| 50100185 | 4X150 | T500 | 54 | 2910 |
| 50100190 | 4X185 | T400 | 59,6 | 3516 |
| 50100195 | 4X240 | T250 | 55,7 | 4460 |
| 50100200 | 4X300 | - | 73,9 | 5455 |
| 50100205 | 4X400 | - | 85,3 | 7045 |
| 50100210 | 4X500 | - | 95,8 | 8735 |
| 50099600 | 5G10 | T500 | 19,9 | 421 |
| 50099605 | 5G16 | T500 | 24,4 | 598 |
| 50099610 | 5G25 | T500 | 28,9 | 846 |
| 50099615 | 5G35 | T500 | 33,5 | 1093 |
| 50100230 | 5G50 | T1000 | 38,1 | 1357 |
| 50100235 | 5G70 | T750 | 43,9 | 1819 |
| 50100240 | 5G95 | T600 | 49 | 2308 |
| 50100245 | 5G120 | T500 | 55 | 2877 |
| 50100250 | 5G150 | T350 | 62,7 | 3598 |
| 50100255 | 5G185 | T250 | 67,5 | 4344 |
| 50100260 | 5G240 | - | 76,4 | 5506 |