

ALUKAFLEX ECO – A GROUND-BREAKING NEW PRODUCT RANGE OF CABLES FOR FIXED INSTALLATION

DanCables presents Alukaflex ECO - a new generation of fixed installation cables. The ECO product series is introduced in an aluminum RZ1-AK 1kV variant to compete with the traditional copper cable. The range is available in 1-, 4- and 5-conductor cables with dimensions up to 500 mm². The cables can be used for fixed installation indoors and outdoors as well as in the ground. They are especially suitable in places where a more flexible cable is needed, as the Alukaflex ECO has a flexible conductor. The cable can also be used where there is a requirement for high fire safety such as data centers, hospitals, and other public buildings.

Alukaflex ECO offers clear advantages over installation cables with a flexible copper conductor, as the product has a significantly lower price. The Alukaflex ECO aluminum cable also provides a significant weight reduction.

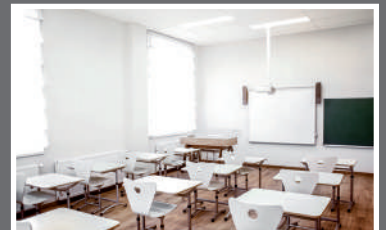
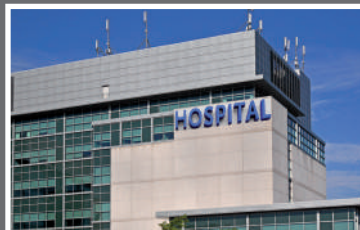
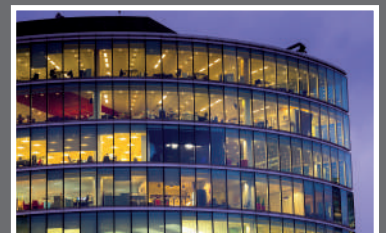
Alukaflex ECO is listed in the database for building products that can be used in Nordic Swan Ecolabelled buildings.

YOUR BENEFITS:

TYPICAL APPLICATION AREAS

- ✓ Higher flexibility compared to standard Class 1 and Class 2 installation cables
- ✓ Lower price than matching copper cable
- ✓ Weight reduction of up to 48% compared to copper cables
- ✓ Flexible and easier to install
- ✓ Proven connection technology with full program of cable lugs and pressing tools
- ✓ Can be dimensioned in PCSHEMATIC
- ✓ Material properties
 - LSZH Low smoke zero halogen
 - Outer sheath of halogen-free polyolefin (light gray)
 - UV resistant
 - Conductor temperature of max. 90 ° C
 - CPR fire class: Dca

Learn more at www.dancables.com



Ordinary industrial buildings where a more flexible cable is needed. Other installations where you need a higher fire class. Examples could be: Data centers, office buildings, residential buildings, hospitals, schools, and other public buildings.

TECHNICAL SPECIFICATIONS: COMPARISON WITH AT LEAST THE SAME AMPERAGE (2 CROSS SECTIONS UP)

| Copper Cable RZ1-K | Alukaflex ECO LSZH |
|-----------------------|-----------------------|
| 1x120 mm ² | 1x185 mm ² |
| 1x240 mm ² | 1x400 mm ² |
| 4x240 mm ² | 4x400 mm ² |
| 5G70 mm ² | 5G120 mm ² |

| Copper Cable RZ1-K | | | VS | Alukaflex ECO Aluminum cable | | | | | |
|------------------------------|------|--------------|----|------------------------------|------|--------------|---------------------------------------|-------------|---------------|
| Dimensions x mm ² | Amps | Cable weight | | Dimensions x mm ² | Amps | Cable weight | Weight comparison copper vs. aluminum | Item number | EAN |
| 4x50 | 192 | 2472 | | 4x70 | 187 | 1485 | -40% | 50100160 | 5714969005376 |
| | | | | 4x95 | 227 | 1882 | -24% | 50100170 | 5714969005390 |
| 4x70 | 246 | 3426 | | 4x95 | 227 | 1882 | -45% | 50100170 | 5714969005390 |
| | | | | 4x120 | 263 | 2347 | -31% | 50100180 | 5714969005413 |
| 4x95 | 298 | 4526 | | 4x120 | 263 | 2347 | -48% | 50100180 | 5714969005413 |
| | | | | 4x150 | 304 | 2910 | -36% | 50100185 | 5714969005420 |
| 4x120 | 346 | 5730 | | 4x185 | 347 | 3516 | -39% | 50100190 | 5714969005437 |
| 4x150 | 399 | 7447 | | 4x240 | 409 | 4460 | -40% | 50100195 | 5714969005444 |
| 4x185 | 456 | 9350 | | 4x300 | 471 | 5455 | -42% | 50100200 | 5714969005451 |
| 4x240 | 538 | 12277 | | 4x400 | 555 | 7045 | -43% | 50100205 | 5714969005468 |
| 1x120 | 383 | 1189 | | 1x185 | 395 | 806 | -32% | 50100070 | 5714969005192 |
| 1x150 | 444 | 1484 | | 1x240 | 471 | 999 | -33% | 50100080 | 5714969005215 |
| 1x185 | 510 | 1780 | | 1x240 | 471 | 999 | -44% | 50100080 | 5714969005215 |
| | | | | 1x300 | 547 | 1218 | -32% | 50100090 | 5714969005239 |
| 1x240 | 607 | 2319 | | 1x300 | 547 | 1218 | -47% | 50100090 | 5714969005239 |
| | | | | 1x400 | 663 | 1597 | -31% | 50100100 | 5714969005253 |
| 1x300 | 703 | 2877 | | 1x400 | 663 | 1597 | -44% | 50100100 | 5714969005253 |
| | | | | 1x500 | 770 | 1966 | -32% | 50100110 | 5714969005277 |

It is crucial for the durability of your installation that the connection is made with suitable and reliable tools.

To achieve this reliable connection, we use the Weitekowitz / Intercable C8 system. The system consists of a press tool and an associated crimping die. Weitekowitz / Intercable has, as one of the few suppliers, developed their press system so that it is also recommended for class 5 aluminum conductors.

