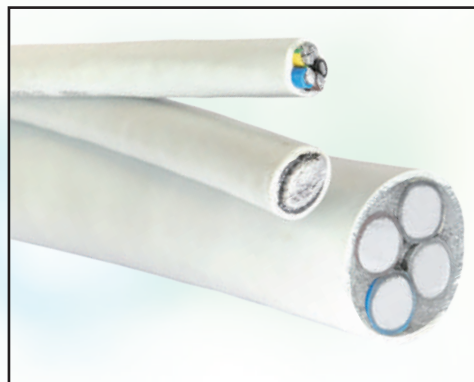
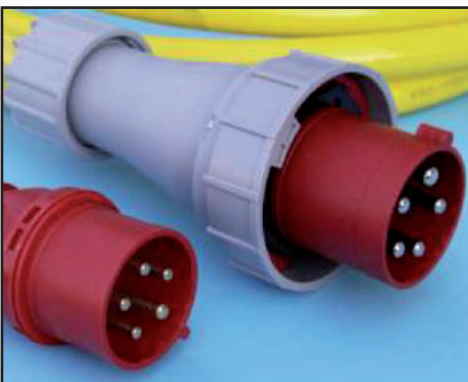
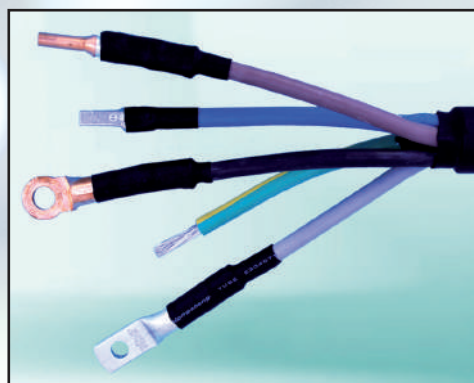
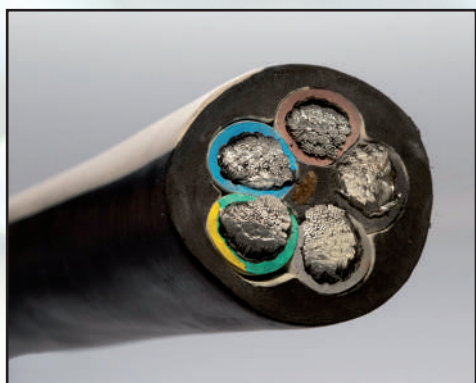
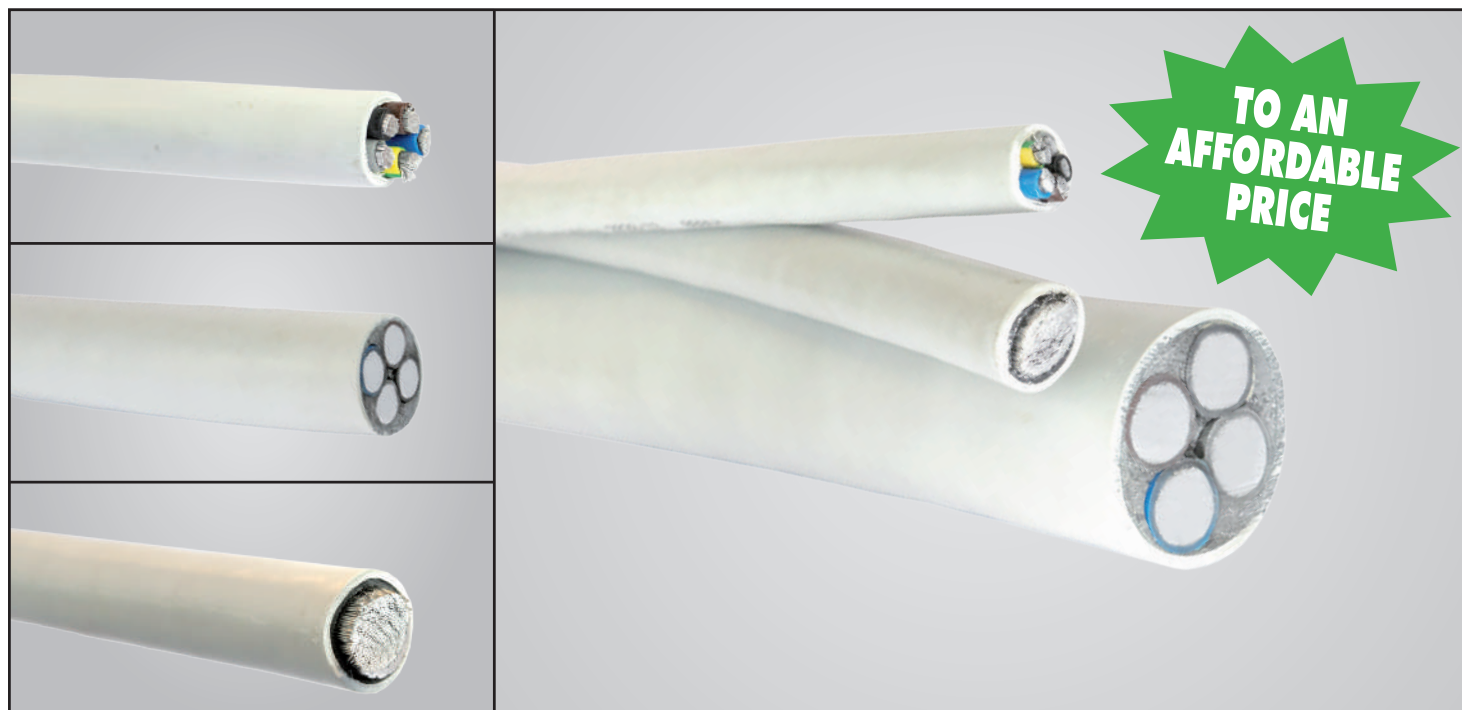


DANCABLES

PRODUCT RANGE





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

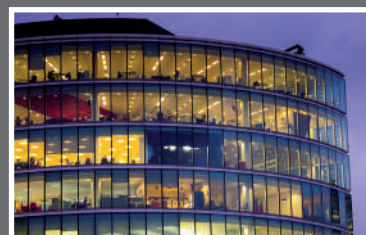
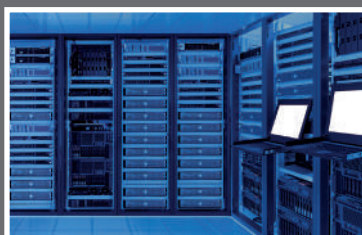
DanCables presents Alukaflex ECO - a new generation of fixed installation cables. The ECO product series is introduced in an aluminum RZ1-AK 1kV variant to compete with the traditional copper cable. The range is available in 1-, 4- and 5-conductor cables with dimensions up to 500 mm². The cables can 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:

- ✓ 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 PCSCHMATIC
- ✓ 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

TYPICAL APPLICATION AREAS



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)

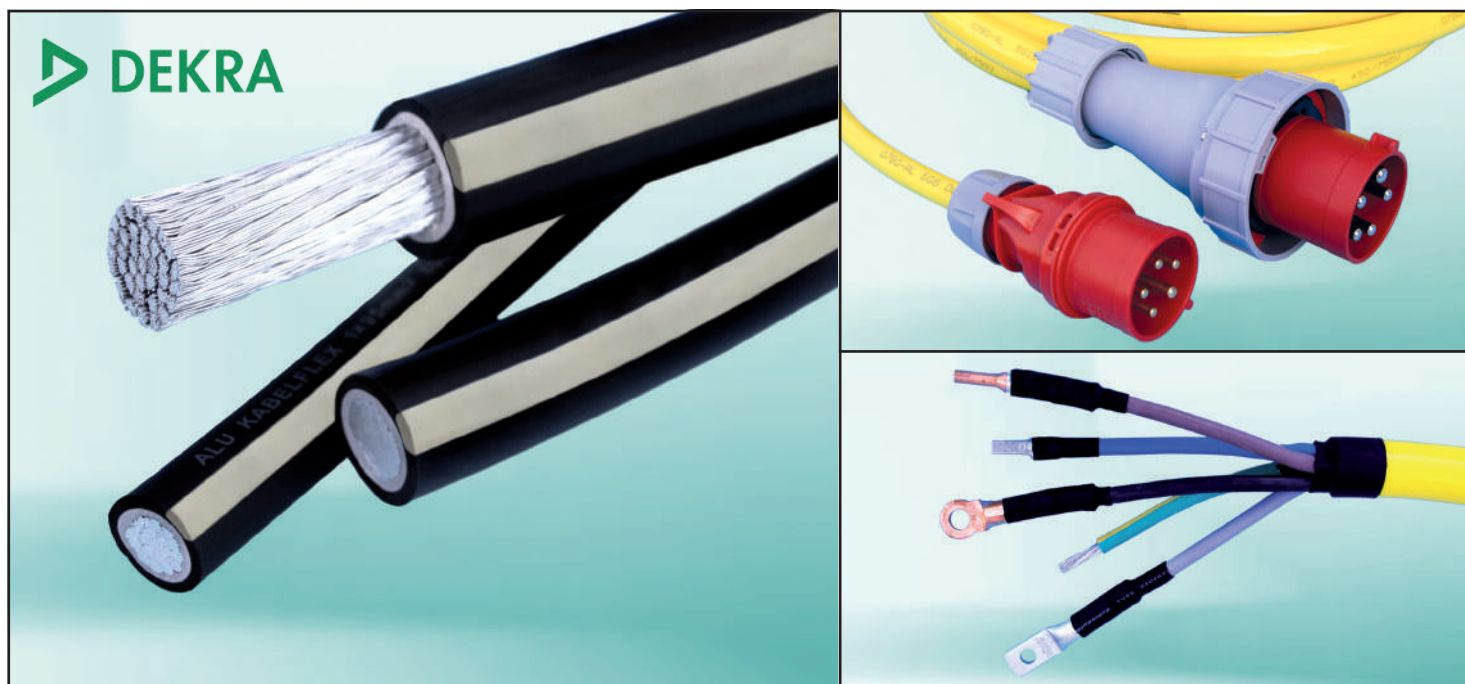
Copper Cable RZ1-K	Alukaflex ECO LSZH
1x120 mm ²	1x185 mm ²
1x240 mm ²	1x400 mm ²
4x240 mm ²	4x400 mm ²
5G70 mm ²	5G120 mm ²

Copper Cable RZ1-K			VS	Alukaflex ECO Aluminum cable					
Dimensions x mm ²	Amps	Cable weight		Dimensions x mm ²	Amps	Cable weight	Weight compar- ison 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.





AN INNOVATIVE POWER CONCEPT, FOR FLEXIBLE SINGLE CONDUCTOR ALU CABLES UP TO +600A

You enjoy the benefits in all respects with our outstanding cable products from our ALUKAFLEX® product range!
Do the job easier, faster, more efficient and cost-effective: The Aluminum cables ALUKAFLEX® consists of highly flexible, fine stranded aluminum conductors (similar to Class 5, acc. DIN VDE 0295 or IEC 60228) and an outer sheath of first class rubber or PUR materials. Together with an reliableconnection technology for Aluminum, the Aluminum cables create an innovative cable concept, which makes the job significantly easier for professionals and industrial users and lowers the cost.

YOUR BENEFITS

- ✓ Up to 40 % lower weight
- ✓ Very easy to handle
- ✓ Max. temperature on conductor +90 C
- ✓ Outstanding flexibility
- ✓ High productivity
- ✓ Low metal price fluctuations
- ✓ Outstanding material properties:
 - Ozon resistant (rubber) and UV resistant
 - Oil resistant
 - Shockproof
 - Durable
 - Halogen free (PUR cable only)
 - Flexible in low temperature
 - Flame retardant
- ✓ Reliable connection technology
- ✓ Low risk of theft

Learn more at www.dancables.com

TYPICAL APPLICATION AREAS






Crane and construction, mobile energy systems, building power supply, electrical and board building, renewable energy, management engineering, machine building, tunnel construction and much more.

WEIGHT COMPARISON H07RN-F COMPARED TO ALUKAFLEX:

Dimensions n x mm ²	Weight - Kg/km		
	H07RN-F	ALUKAFLEX 07BN4-AF	ALUKAFLEX 07BQ-AF
1x95	1.230	659	512
1x120	1.530	795	620
1x150	1.900	982	779
1x185	2.300	1.164	929
1x240	2.930	1.450	1.172
1x300	3.600	1.764	1.453
1x400	4.700	2.241	1.866
1x500		2.694	2.285
4G6	520	428	323
4G10	920	682	493
4G16	1.255	864	633
4G25	1.850	1.250	916
4G35	2.370	1.630	1.210
4G50	3.200	2.206	1.657
4G70	4.270	2.837	2.165
4G95	5.610	3.587	2.740
5G6	640	529	403
5G10	1.185	828	607
5G16	1.560	1.064	791
5G25	2.260	1.534	1.145
5G35	2.710	1.978	1.495
5G50	3.950	2.724	2.083
5G70	4.870	3.524	2.717
5G95	6.600	4.406	3.407
5G120	8.150	5.186	4.082
5G150	10.600	6.574	5.195

Below are examples of the current rating, acc. to DS/HD 60364-5-52, for Alukaflex single core conductor. If you need other specifications or multicore conductors, we refer you to the individual datasheets.

Ambient temperature	Cable Cross Section	Touching Al 90°C Alukaflex	Trefoil Al 90°C Alukaflex	Hor. spaced Al 90°C Alukaflex
				
30°C	70 mm ²	215 A	206 A	271 A
	95 mm ²	264 A	253 A	332 A
	120 mm ²	308 A	296 A	387 A
	150 mm ²	358 A	343 A	448 A
	185 mm ²	413 A	395 A	515 A
	240 mm ²	492 A	471 A	611 A
	300 mm ²	571 A	547 A	708 A
	400 mm ²	694 A	663 A	856 A
	500 mm ²	806 A	770 A	991 A



AN INNOVATIVE POWER CONCEPT, FOR FLEXIBLE SINGLE CONDUCTOR ALU CABLES UP TO +565 A

ALUKAFLEX CONNECT is an innovative concept consisting of the flexible ALUKAFLEX aluminum cable and Powersafe Bi-Metal connectors. The concept benefits from the high current rating of the 1-pole connectors and the low weight of the flexible aluminum cable, so we create a safe and powerful system.

ALUKAFLEX CONNECT therefore offers solutions with aluminum cables up to 565 A systems. The concept offers clear advantages over traditional copper solutions with a weight reduction of up to 40% and a significant lower price depending on the length. ALUKAFLEX CONNECT is long term tested at an independent third-party test center for maximum load, which provides a solution that is reliable and well tested.

YOUR BENEFITS

- ✓ Up to 40 % lower weight
- ✓ Lower price (depending on length)
- ✓ Thoroughly tested at a third-party test center
- ✓ PowerLock compatible
- ✓ Intermateable with other versions
- ✓ Quick assembling and disassembling
- ✓ Mechanically keyed to prevent mating errors
- ✓ Permanent marking to identify phase/line and safety information embossed on connector's body
- ✓ EN harmonized color coding (Europe). Also available in UK, Australia and USA color codes
- ✓ The ALUKAFLEX® cable is Dekra certified

Learn more at www.dancables.com

TYPICAL APPLICATION AREAS






Electrical Power Systems, Power distribution, Outdoor concerts and events, Outdoor broadcasting, Theatres, Mobile generators, Industrial vehicles, Railway installations, Military installations, Backup power systems, Electrical power supply companies, Heavy industry.

SPECIFICATIONS

Program	Cable length (example)	Weight kg/pc
Alukaflex Connect AL 70 mm ²	15 m	9,1 kg
	20 m	11,8 kg
	25 m	14,4 kg
	50 m	27,7 kg
Alukaflex Connect AL 95 mm ²	15 m	11,1 kg
	20 m	14,4 kg
	25 m	17,7 kg
	50 m	34,2 kg
Alukaflex Connect AL 120 mm ²	15 m	13,1 kg
	20 m	17,1 kg
	25 m	21,1 kg
	50 m	41,0 kg
Alukaflex Connect AL 150 mm ²	15 m	15,9 kg
	20 m	20,8 kg
	25 m	25,8 kg
	50 m	50,3 kg
Alukaflex Connect AL 185 mm ²	15 m	18,7 kg
	20 m	24,5 kg
	25 m	30,3 kg
	50 m	59,4 kg
Alukaflex Connect AL 240 mm ²	15 m	23,0 kg
	20 m	30,2 kg
	25 m	37,5 kg
	40 m	59,2 kg

Current rating mainly acc. to IEC 60364-5-52

Ambient temperature	Cable Cross Section	Touching Al 90°C Alukaflex	Trefoil Al 90°C Alukaflex	Hor. spaced Al 90°C Alukaflex
				
30°C	70 mm ²	215 A	206 A	271 A
	95 mm ²	264 A	253 A	332 A
	120 mm ²	308 A	296 A	387 A
	150 mm ²	358 A	343 A	448 A
	185 mm ²	413 A	395 A	515 A
	240 mm ²	492 A	471 A	565 A



ALUKAFLEX MIDNIGHT BLACK AS NIGHT!

ALUKAFLEX MIDNIGHT is a new product range developed specifically for the event and entertainment industry. The series of cable sets is developed in completely black materials, both cables and connectors, so nothing is visible, and therefore easily hidden in the stage structure. By choosing the black MIDNIGHT series, you also achieve all the benefits from our unique and flexible ALUKAFLEX products, which means lower purchase prices and up to 40% lower weight which will make work much easier for the backstage crew when setting up for a show.

ALUKAFLEX MIDNIGHT makes work easier, faster and more efficient when building the stage structure. It also makes transportation costs cheaper due to the lower weight. The ALUKAFLEX aluminum cables consist of highly flexible, fine-threaded aluminum conductors (like class 5, according to DIN VDE 0295 or IEC 60228) with first-class PUR outer sheath. Along with the reliable CEE connection technology for aluminum, the ALUKAFLEX cables ensures an innovative cable concept. ALUKAFLEX MIDNIGHT is available in 32, 63 and 125 A for all your needs.

YOUR BENEFITS

- ✓ Significant cost savings compared to copper cables
- ✓ Up to 40% lower weight compared to copper cables
- ✓ Low risk of theft due to lower scrap value
- ✓ Very easy handling and excellent flexibility
- ✓ Max. temperature at conductor +90° C
- ✓ Reliable connection techniques
- ✓ Outstanding material properties

- UV and oil resistant
- Durable
- Halogen free
- Cold Flexible down to - 40° C

Learn more at www.dancables.com

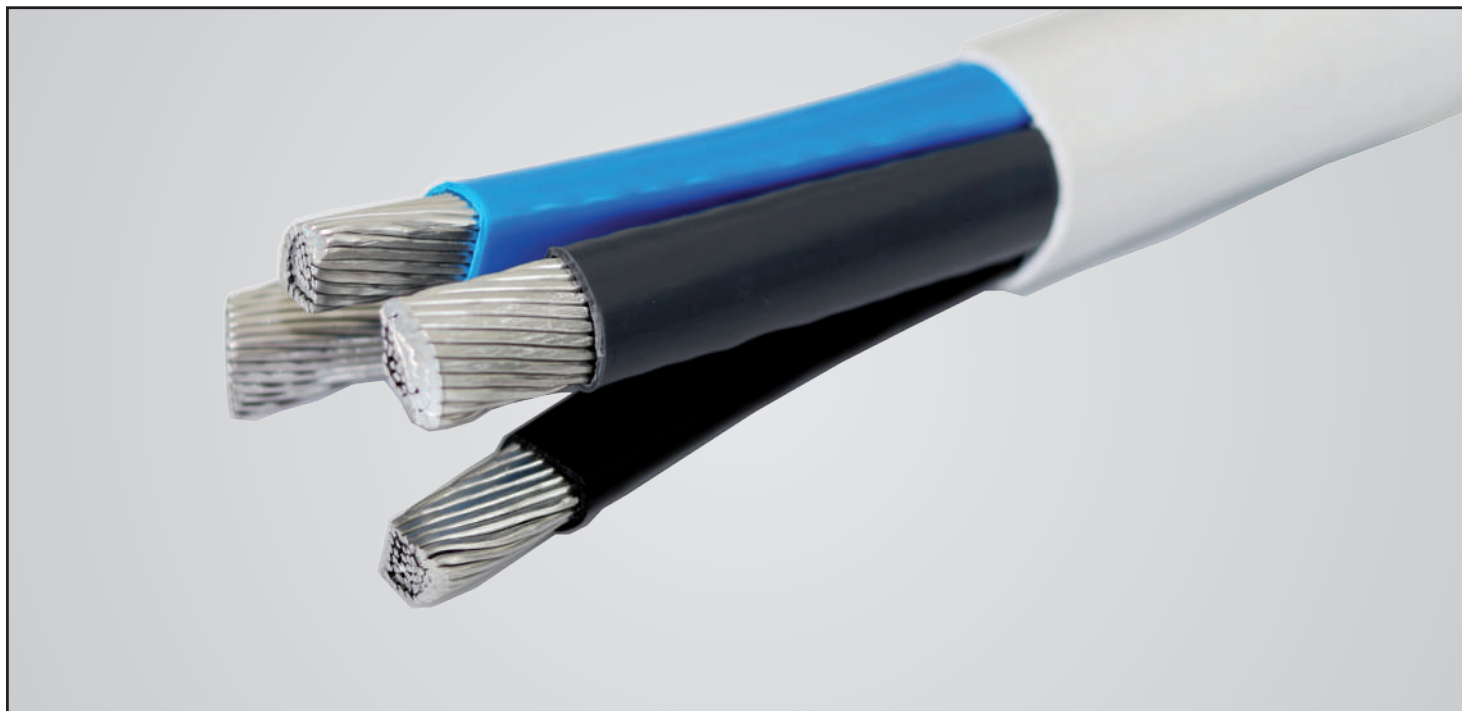
TYPICAL APPLICATION AREAS



Outdoor events, concerts and festivals, theaters, broadcasting & production studios, conference venues and much more.

CABLE SET 400V ALUKAFLEX MIDNIGHT WITH 5P CEE-PLUG AND CONNECTOR.

Program	Cable length	Weight kg / pcs.
5G6 PUR with 32A CEE	5 m	2,5
	10 m	4,4
	15 m	6,3
	25 m	10,1
	50 m	19,6
5G16 PUR with 63A CEE	5 m	5,7
	10 m	9,8
	15 m	14,0
	25 m	22,2
	50 m	42,8
5G50 PUR with 125A CEE	25 m	56,4



ECONOMICALLY SUPERIOR INSTALLATION CABLE IN ALUMINUM

DanCables supplies a range of high-quality class 2 installation cables for low voltage application in the 0.6kV/1Kv range. They are available in several cross sections. HFAL-S is a halogen-free installation cable with aluminum conductor. The conductor is made from stranded aluminum acc. to IEC 60228 class 2, giving it a more flexible feel.

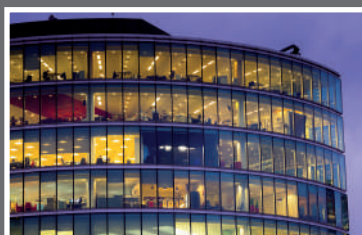
The HFAL-S installation cable is suitable for fixed installation indoor, outdoor and in the ground. The outer sheath is additionally made from high quality materials which ensures that the cable is robust and long lasting.

YOUR BENEFITS:

- ✓ **Competitive price compared to class 2 cable in copper**
- ✓ **Halogen free outer sheath**
- ✓ **Flame retardant**
- ✓ **Conductor temperature max. 90°C**
- ✓ **CPR Class: Eca**
- ✓ **Material properties**
 - **Light grey halogen free compound**
 - **Meter marked**
 - **UV-stabilized**
 - **With rip cord**

Learn more at www.dancables.com

TYPICAL APPLICATION AREAS



The HFAL-S installation cable is suitable for application in all kinds of buildings e.g., office buildings, factories, industrial areas, and residential buildings to name a few.

No of cond. x Cross section	Nom. diameter mm	Cable weight kg/km	Delivery length m/ dr. dia/dr. width	EAN no.
HFAL-S INSTALLATION CABLE PROGRAM				
1G50	14	307	1000m/T1140/600	5733150691
1G70	17	389	1000m/T1140/700	5733150701
1G95	18	480	1000m/T1140/850	5733150714
1G120	20	578	1000m/T1140/960	5733150727
1G150	22	697	1000m/T1450/750	5733150730
1G240	28	1094	1000m/T1600/1000	5733150743
1G300	31	1228	500m/T1140/900	5733150646
4x10	17	290	500m/T1160/900	5733152107
4x10	17	290	2000m/T1160/900	5733152110
4x16	20	400	1500m/T1200/600	573315 0659
4x25	24	740	1000m/T1200/750	5733150662
4x50	28	920	2250m/T2200/900	5733150523
4x50	28	920	2250m/T1600/1000	5733150358
4x70	32	1230	1700m/T2200/900	5733150536
4x95	36	1583	1350m/T2200/900	5733150549
4x95	36	1583	1000m/T1800/1000	5733150374
4x120	40	1964	1200m/T2200/950	5733150552
4x150	44	2425	1000m/T2200/1150	5733150565
4x185	49	2980	850m/T2200/1150	5733150578
4x240	55	3768	600m/T2200/1150	573315 0581
4x300	61	4620	480m/T2200/1150	5733150594
5xG10	19	360	500m/T850/650	5734101102
5xG10	19	360	2000m/T1300/850	5734101115
5xG16	22	530	1000m/T1450/700	5733150675
5xG25	26	750	1000m/T1600/750	5733150688



PROTECT YOUR INSTALLATIONS AGAINST RODENTS

Rodents can be a big problem in the agriculture industry. They live in the farm buildings and gnaw their way through all types of material, including installation cables. The HFBH-J 300/500 V installation cable, in copper, has a very effective rodent protection made of two layers of galvanized steel bands (stainless steel on 1G6). This ensures that you won't experience faulty power supply due to rodents, and you can spend your time doing more important things than investigate where the cable is broken.

The HFBH-J installation cable is supplied in two variants. Cross sections from 1,5 – 4 mm² have a solid copper conductor acc. to IEC 60228 class 1. Cross sections from 6 – 16 mm² have a stranded copper conductor acc. to IEC 60228 class 2.

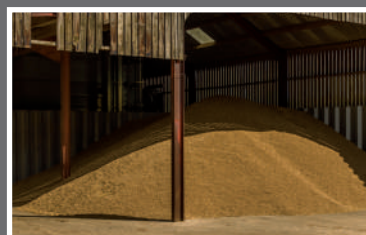
HFBH-J can be used for fixed installation indoor and outdoor but is not suitable for water or in vibrated concrete.

YOUR BENEFITS:

- ✓ **Galvanized steel band protects against rodents (stainless steel on 1G6)**
- ✓ **Halogen free outer sheath**
- ✓ **Flame retardant**
- ✓ **Competitive price**
- ✓ **Conductor temperature max. 90°C**
- ✓ **CPR class: Eca**
- ✓ **Material properties**
 - **Light grey halogen free compound**
 - **Meter marked**
 - **UV-stabilized**
 - **Two layers of galvanized steel bands**

Learn more at www.dancables.com

TYPICAL APPLICATION AREAS



The HFBH-J installation cable is suitable for installation in all buildings where rodents can be found. This could be farm buildings, barns, and grain silos to name a few.



PROGRAM

Program	Nom. outer diameter mm	Cable weight kg/km	Delivery length m
3G1,5	9,1	150	Coil 100, drum 500
4G1,5	9,7	175	"
5G1,5	10,3	200	"
7G1,5	11,1	240	Coil 100
3G2,5	9,9	210	"
4G2,5	10,6	235	Drum 500
5G2,5	11,4	265	Coil 100, drum 500
7G2,5	12,3	340	Drum 500
5G4	15,8	370	"
1G6	11,3	229	Coil 100, drum 500
5G6	17,2	490	Drum 500
5G10	19,9	860	"
5G16	22,9	1300	"



CUSTOMIZE YOUR POWER DISTRIBUTION AS YOU WANT!

DanCables' Stackbox is a unique concept within power distribution. Stackbox are units made of impact-resistant plastic with rubber properties (Polyethylene), making them extremely solid. The series of units can be built in several sizes, with different accessories, and sold under the name Stackbox. You can thus tailor your power distribution solution exactly as you want, by combining the different Stackbox units.

Stackbox is especially useful in places where temporary power is needed. Here, the many qualities of the Stackbox come into their own, as the units are easy to stack, lightweight, and easy to transport thanks to the convenient handles located on the sides of the devices. The available range makes it possible to implement complex configurations without any problems.

Combine Stackbox with our flexible Alukaflex aluminum cable, and you have a professional and flexible solution for places where there is a need of temporary power e.g., festivals, events, construction, industry, and defense missions.

YOUR BENEFITS

- ✓ **Extremely compact and stackable power distribution box**
- ✓ **Made of impact resistant plastic with rubber properties**
- ✓ **Produced in accordance with EN IEC 61439 standards**
- ✓ **Mix & match**
– tailor a solution that suits you
- ✓ **Has recessed in- and output connectors that reduce damage during use and transport**
- ✓ **Trolley is available as an option**







Learn more at www.dancables.com




TYPICAL APPLICATION AREAS

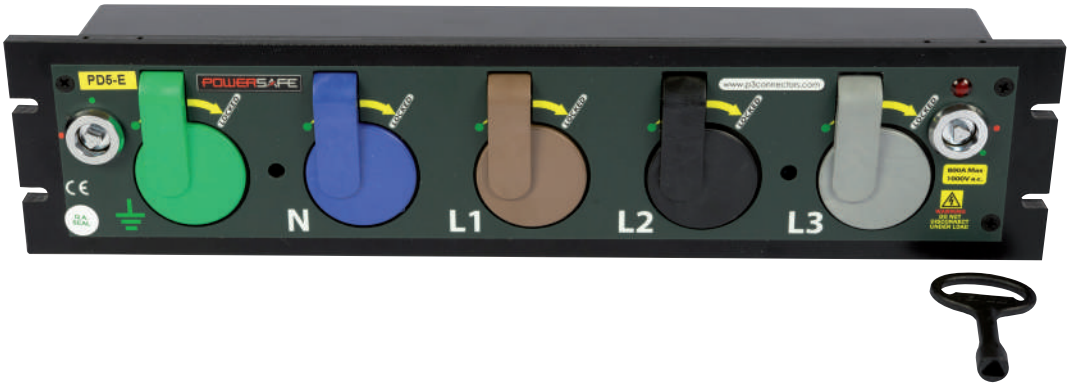
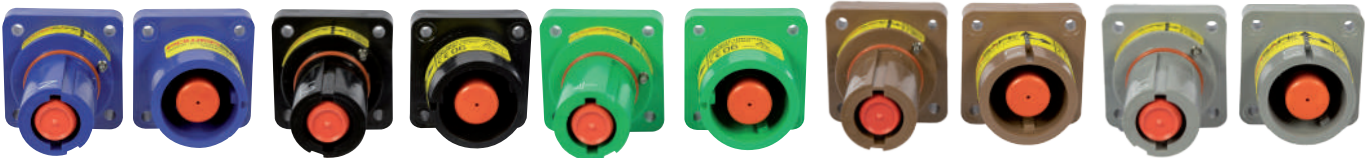


The Stackbox units are ideal for places where temporary power is needed e.g., for construction, industry, shipping, festivals, events, and defense missions.

ASSEMBLE YOUR OWN STACKBOX OR WRITE WHAT YOU NEED, THEN WE SEND A PROPOSAL ACCORDING TO APPLICABLE STANDARDS.

Connector type	Qty	Circuit Breakers		
		RCD	MCB	RCBO
 Schuko 250V				
 3p 16A CEE 250V				
 5p 16A CEE 400V				
 5p 32A CEE 400V				
 5p 63A CEE 400V				
 5p 125A CEE 400V				

Connector type	Input Ampere	Output Loop departure	Options	
 Power-safe source	<input type="checkbox"/>	<input type="checkbox"/>	Plate with wheels	<input type="checkbox"/>
 Power-safe drain	<input type="checkbox"/>	<input type="checkbox"/>	IP67 water resistant Standard IP44	<input type="checkbox"/>
 CEE Plug	<input type="checkbox"/>	<input type="checkbox"/>	Plug color: original	<input type="checkbox"/>
Master switch	A	Plug color: black	<input type="checkbox"/>



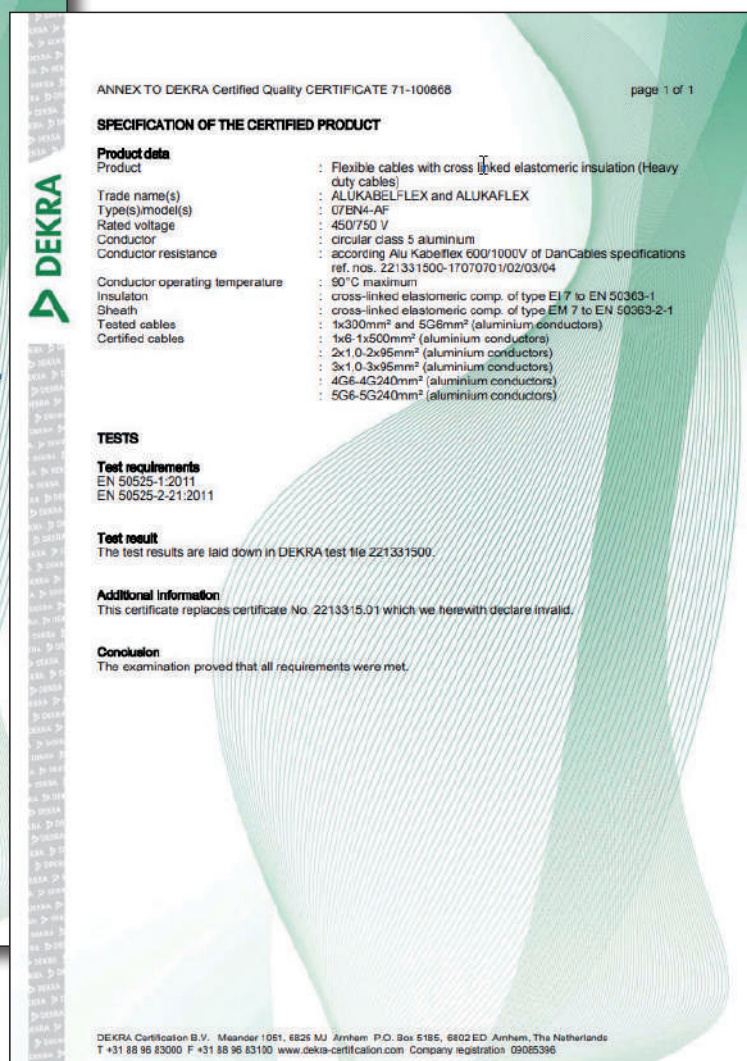
AVOID THE RISK OF FAULTY CABLES

Tests and certificates may not be something you think a lot about going about your everyday life, but when you are choosing cables for a project it's a good idea to check if the cables you want to buy have been tested and certified. If they have not, you run a risk that can be costly in the form of delays if the cables fail or overheat.

DanCables has developed a highly flexible aluminum cable for temporary installations. It is available with up to 5 conductors with rubber or PUR outer sheath, and the cable is designed similar to class 5, DIN VDE 0295 and IEC 60228 standards. The Alukaflex® rubber cable (which corresponds to a 90°C H07BN4-F cable) has obtained the DEKRA certificate and is therefore a good replacement for the H07RN-F rubber cable. At the same time, the Alukaflex® cable is up to 40% lighter in weight and significantly cheaper in purchase, since the prices of the aluminum are about three times as low when compared to copper.

DEKRA-CERTIFICATION OF ALUKAFLEX®

DEKRA is an international expert organization, founded in 1925, and is one of the world's largest testing and certification companies. They are active in many different markets. DEKRA's product testing and certification experts test and certify consumer, industrial, automotive and ICT products and medical devices for worldwide markets. Thus, it is extremely competent people who have tested the Alukaflex® rubber cable, according to the same standards as H07RN-F, and guarantee the quality. See the certificate down below.



LONG-TERM TESTING OF ALUKAFLEX CONNECT AT THIRD-PARTY TESTING CENTER

Alukaflex Connect is an innovative concept consisting of the flexible Alukaflex® aluminum cable and special developed Powersafe bi-metal connectors from Phase 3 Connectors. The concept benefits from the high current rating of the 1 pole connectors and the low weight of the flexible aluminum cable to create a safe and high-performance solution.

DanCables and Phase 3 Connectors have done a qualifying short-term test of Alukaflex Connect (two connectors connected and connected to Alukaflex® cables). The results were very positive and showed that the cables can be loaded with high current without causing overheating and melting the plug. Therefore, a renowned third-party test center was contacted to test the Alukaflex Connect concept (and thus the Alukaflex cable and connectors) in a long-term test. This test center has extensive experience with electrical connections, and aluminum cables in general. This expertise provides assurance that the test is being performed correctly, impartially and very thoroughly, so the results are to be trusted.

The test center initiated a long-term test to ensure that Alukaflex Connect can handle long-term operations. They connected two Alukaflex cables, applied to bi-metal connectors, just as before, but this time they tested at full load for 3500 hours non-stop. This is done to test whether the connectors can handle this long-term load and whether the crimping system can handle this load too. The connector is pressed on the cables, and when working with a flexible aluminum conductor, this requires special attention to make sure it's done correctly. A standard crimping solution does not crimp and compress the conductors tight enough and therefore does not provide a satisfactory connection. Three different crimping systems were tested to find the best one for this application.

After 3500 hours of full load and additional 500 hours of Heat Cycle Test, it was found that neither cables, connectors nor crimping system showed signs of overheating, declining performance or failure. This shows that Alukaflex Connect is a reliable solution for both temporary and long-term installation projects.



Aluminum cables from DanCables

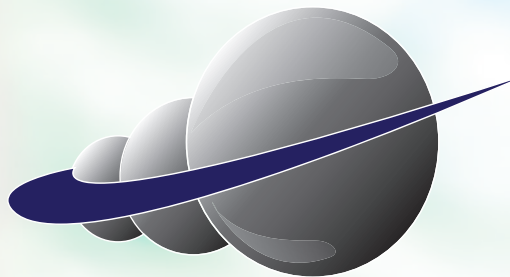
- Innovative solutions and superior performance

DanCables is a Danish family-owned company that develops high-quality aluminum cables under the brand name Alukaflex®. With us, customer-based solutions, product tests and material properties are paramount, which gives our products a unique performance, increased productivity, cost savings and lower weight.

Popular products from DanCables:

- Alukaflex®, a light and flexible aluminum cable
- Alukaflex ECO, which is an economical and fire-resistant aluminum cable for permanent installation
- Alukaflex Connect, a unique concept with Powersafe connector
- Quality products for connectorization of cables and tools

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