

## 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 a reliable connection 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](http://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 <sup>2</sup>	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 <sup>2</sup>	215 A	206 A	271 A
	95 mm <sup>2</sup>	264 A	253 A	332 A
	120 mm <sup>2</sup>	308 A	296 A	387 A
	150 mm <sup>2</sup>	358 A	343 A	448 A
	185 mm <sup>2</sup>	413 A	395 A	515 A
	240 mm <sup>2</sup>	492 A	471 A	611 A
	300 mm <sup>2</sup>	571 A	547 A	708 A
	400 mm <sup>2</sup>	694 A	663 A	856 A
	500 mm <sup>2</sup>	806 A	770 A	991 A