

RIPCAFLEX CURRENT RATING & DUTY CYCLE

	
Cable type:	RIPCAFLEX (HI-FLEX)
Working Voltage U ₀ /U [kV]:	450/750 V

Nominal size [mm ²]	*Current rating for specified Percentage Duty Cycle [A]			
	100%	30%	20%	10%
1X10	50	91	111	158
1X16	65	118	145	205
1X20	74	135	165	234
1X25	85	155	190	268
1X35	106	193	237	335
1X40	119	217	266	376
1X50	129	235	288	407
1X60	143	261	319	452
1X70	164	299	366	518
1X95	201	366	449	635
1X120	229	418	512	724
1X150	275	502	614	869

*Current rating evaluation is based on a theoretical and simplified calculation, in the following conditions:

- Max conductor operating temperature: 70°C
- Environmental temperature: 30°C
- Single cable in free air
- Current rating for repeat cycle operation based on a 1 minute repeat period:
 - Repeat cycle operation used above is defined as a periodically switched constant load with an on-load period followed by an off-load period, which is repeated. The on-load time period is expressed as a percentage of the repeat period, and is called the percentage duty cycle.
- For on-load percentage greater than 50%, consider the 100% current rating, caused by low heat dissipation between cycles:

Correction factors for air temperature other than 30°C						
0°C	10°C	20°C	30°C	40°C	50°C	60°C
1,39	1,27	1,14	1,00	0,84	0,66	0,43

Correction factors is based on a theoretical calculation, in the following conditions:

- Cable in free air

RIPCAFLEX CABLES

DESCRIPTION	SPECIFICATIONS						
RIPCA code	10FLEX	16FLEX	25FLEX	35FLEX	50FLEX	70FLEX	95FLEX
Size mm ²	10	16	25	35	50	70	95
Outer cable diameter	7.3±0.2 mm	8.7±0.2 mm	10.5±0.2 mm	12.0±0.3 mm	13.8±0.3 mm	15.9±0.4	18.2±0.4
Average insulation thickness	1.4 mm	1.4 mm	1.5 mm	1.7 mm	1.7 mm	1.9 mm	2.0 mm
Min. insulation thickness	1.16 mm	1.16 mm	1.25 mm	1.53 mm	1.53 mm	1.61 mm	1.70 mm
Nominal Conductor construction	288 X 0.2	204 X 0.3	324 X 0.3	444 X 0.3	636 X 0.3	900 X 0.3	1224 X 0.3
Max. cond. resistance a 20°C	1.91 Ohm/Km	1.31 Ohm/Km	0.850 Ohm/Km	0.595 Ohm/Km	0.419 Ohm/Km	0.297 Ohm/Km	0.219 Ohm/Km
Marks	RIPCAFLEX "size" mm ² CE						
Conductor	Flexible bare copper stranded rope						
Insulation	Soft PVC						
Insulation Hardness	70± 5 Shore "A"						
Temperature rating:	+5°C ÷ +70°C (mobile use) ÷ -30°C ÷ +70°C (stationary use)						
Nominal Voltage U ₀ /U	450/750 V						

Further details, drawings or other specs.

According with the requirements of EEC directive 2000/53: **Chromium^{VI}, Cadmium, Lead and Mercury free.**

- Flame retardant: according to IEC60332-1 ÷ CEI EN 50265
- Minimum bending radius: six times the outer diameter.