

<b>Cable</b>	: Very flexible PVC-insulated cable.
<b>Applications</b>	: Low voltage supply lines for battery operated equipment. E.g. power supply lines for bow and stern thrusters on board of pleasure craft.
<b>Conductor</b>	: Flexible annealed red copper
<b>Insulation</b>	: Flexible PVC
<b>Rated voltage</b>	: U0/U: 450/750 V
<b>Mark</b>	: HI-FLEX CE
<b>Max. operating temperature</b>	: 70°C on conductor if installed in ordinary environments.
<b>Max. temperature in case of short circuit</b>	: 160°C on the conductor (max. duration 5 seconds)
<b>Min. temperature of conductor during installation</b>	: +5°C
<b>Min. bending radius</b>	: 6 times the max. outer diameter
<b>Certification</b>	: IMQ - CE

Code	Nominal cross sectional area of conductor	Max. diameter of wires in conductor	Nominal diameter of conductor	Outer diameter of insulation	Insulation thickness		Colour	Max. conductor resistance at 20°C	Min. insulation resistance at 70°C	Weight
					average. min.	minimum				
	[mm <sup>2</sup> ]	[mm]	[mm]	[mm] (±0.15 mm)	[mm]	[mm]		[Ω/km]	[MΩ·km]	[kg/km]
BATC35	35	0.31	7.80	12.00	1.70	1.53	Black	0.58	0.0038	410
BATC35R							Red			
BATC50	50	0.31	8.80	13.80	1.70	1.43	Black	0.41	0.0037	565
BATC50R							Red			
BATC70	70	0.31	10.80	15.90	1.90	1.61	Black	0.28	0.0032	780
BATC70R							Red			
BATC95	95	0.31	12.30	18.20	2.00	1.70	Black	0.21	0.0032	1050
BATC95R							Red			
BATC120	120	0.31	14.20	20.10	2.00	1.70	Black	0.17	0.0029	1300
BAT120							Red			

## Current ratings

Nominal cross sectional area of conductor	Current rating at a maximum duty cycle of:			
	100%	30%	20%	10%
[mm <sup>2</sup> ]	[A]	[A]	[A]	[A]
35	106	193	237	335
50	129	235	288	407
70	164	299	366	518
95	201	366	449	635
120	229	418	512	724

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 pipe conductor
- 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 onload 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

Derating factors for higher ambient temperatures:

Ambient temperature	35 °C	40 °C	45 °C	50 °C
Factor	0.96	0.91	0.87	0.82