

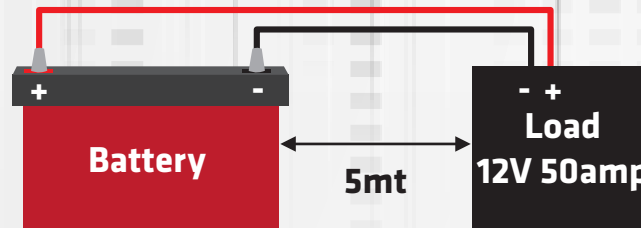


# CABLE SECTION AS A FUNCTION OF THE DISCHARGE CURRENT AND DISTANCE OF THE LOAD FROM THE BATTERY

Discharge current	Load/battery distance															
	5mt		10mt		15mt		20mt		30mt		40mt		50mt		60mt	
	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V	12V	24V
10	10mm <sup>2</sup>	6mm <sup>2</sup>	16mm <sup>2</sup>	10mm <sup>2</sup>	25mm <sup>2</sup>	16mm <sup>2</sup>	35mm <sup>2</sup>	16mm <sup>2</sup>	50mm <sup>2</sup>	25mm <sup>2</sup>	70mm <sup>2</sup>	35mm <sup>2</sup>	95mm <sup>2</sup>	50mm <sup>2</sup>	95mm <sup>2</sup>	50mm <sup>2</sup>
20	16mm <sup>2</sup>	10mm <sup>2</sup>	35mm <sup>2</sup>	16mm <sup>2</sup>	50mm <sup>2</sup>	25mm <sup>2</sup>	70mm <sup>2</sup>	35mm <sup>2</sup>	95mm <sup>2</sup>	50mm <sup>2</sup>	120mm <sup>2</sup>	70mm <sup>2</sup>	150mm <sup>2</sup>	70mm <sup>2</sup>	185mm <sup>2</sup>	95mm <sup>2</sup>
30	25mm <sup>2</sup>	16mm <sup>2</sup>	50mm <sup>2</sup>	25mm <sup>2</sup>	70mm <sup>2</sup>	35mm <sup>2</sup>	95mm <sup>2</sup>	50mm <sup>2</sup>	150mm <sup>2</sup>	70mm <sup>2</sup>	185mm <sup>2</sup>	95mm <sup>2</sup>	240mm <sup>2</sup>	120mm <sup>2</sup>	2x150mm <sup>2</sup>	150mm <sup>2</sup>
40	35mm <sup>2</sup>	16mm <sup>2</sup>	70mm <sup>2</sup>	35mm <sup>2</sup>	95mm <sup>2</sup>	50mm <sup>2</sup>	120mm <sup>2</sup>	70mm <sup>2</sup>	185mm <sup>2</sup>	95mm <sup>2</sup>	240mm <sup>2</sup>	120mm <sup>2</sup>	2x150mm <sup>2</sup>	150mm <sup>2</sup>	2x185mm <sup>2</sup>	185mm <sup>2</sup>
50	50mm <sup>2</sup>	25mm <sup>2</sup>	95mm <sup>2</sup>	50mm <sup>2</sup>	120mm <sup>2</sup>	70mm <sup>2</sup>	150mm <sup>2</sup>	95mm <sup>2</sup>	240mm <sup>2</sup>	120mm <sup>2</sup>	2x150mm <sup>2</sup>	150mm <sup>2</sup>	2x185mm <sup>2</sup>	185mm <sup>2</sup>	2x240mm <sup>2</sup>	240mm <sup>2</sup>
60	50mm <sup>2</sup>	25mm <sup>2</sup>	95mm <sup>2</sup>	50mm <sup>2</sup>	150mm <sup>2</sup>	70mm <sup>2</sup>	185mm <sup>2</sup>	95mm <sup>2</sup>	2x150mm <sup>2</sup>	150mm <sup>2</sup>	2x185mm <sup>2</sup>	185mm <sup>2</sup>	2x240mm <sup>2</sup>	240mm <sup>2</sup>		
70	70mm <sup>2</sup>	35mm <sup>2</sup>	120mm <sup>2</sup>	50mm <sup>2</sup>	185mm <sup>2</sup>	95mm <sup>2</sup>	240mm <sup>2</sup>	120mm <sup>2</sup>	2x150mm <sup>2</sup>	150mm <sup>2</sup>	2x240mm <sup>2</sup>	240mm <sup>2</sup>				
80	70mm <sup>2</sup>	35mm <sup>2</sup>	120mm <sup>2</sup>	70mm <sup>2</sup>	185mm <sup>2</sup>	95mm <sup>2</sup>	240mm <sup>2</sup>	120mm <sup>2</sup>	2x185mm <sup>2</sup>	185mm <sup>2</sup>	2x240mm <sup>2</sup>	240mm <sup>2</sup>				
90	70mm <sup>2</sup>	35mm <sup>2</sup>	150mm <sup>2</sup>	70mm <sup>2</sup>	240mm <sup>2</sup>	120mm <sup>2</sup>	2x150mm <sup>2</sup>	150mm <sup>2</sup>	2x240mm <sup>2</sup>	240mm <sup>2</sup>						
100	95mm <sup>2</sup>	50mm <sup>2</sup>	150mm <sup>2</sup>	95mm <sup>2</sup>	240mm <sup>2</sup>	120mm <sup>2</sup>	2x150mm <sup>2</sup>	150mm <sup>2</sup>	2x240mm <sup>2</sup>	240mm <sup>2</sup>						
150	120mm <sup>2</sup>	70mm <sup>2</sup>	240mm <sup>2</sup>	120mm <sup>2</sup>	2x185mm <sup>2</sup>	185mm <sup>2</sup>	2x240mm <sup>2</sup>	240mm <sup>2</sup>								
200	150mm <sup>2</sup>	95mm <sup>2</sup>	2x150mm <sup>2</sup>	150mm <sup>2</sup>	2x240mm <sup>2</sup>	240mm <sup>2</sup>										
250	185mm <sup>2</sup>	120mm <sup>2</sup>	2x185mm <sup>2</sup>	185mm <sup>2</sup>												
300	240mm <sup>2</sup>	120mm <sup>2</sup>	2x240mm <sup>2</sup>	240mm <sup>2</sup>												
350	2x150mm <sup>2</sup>	150mm <sup>2</sup>														
400	2x150mm <sup>2</sup>	150mm <sup>2</sup>														
450	2x185mm <sup>2</sup>	185mm <sup>2</sup>														
500	2x240mm <sup>2</sup>	240mm <sup>2</sup>														

Loss on cable ≤ 2%

How read the table  
(example):



column: 5mt - 12V  
row: 50amp  
cable section= 50mm<sup>2</sup>