Safety regulations demands any cable directly connected to a battery source must be fused

Voltage drop specification

Higher voltage drop Lights, pumps Non Critical equipment	Low voltage drop inverters chargers Critical equipment
0-6	0-2
6-9	2-3
9-15	3- 4.5
15- 19	4.5- 6
19-24	6-7.5
24-30	7.5-9
30-40	9-12
40-51	12-15
51-61	15-18
	18-21
	21-24
	24-27
	27-30
	30-33
	33-37
	37-40

Required Current based at approx 60 deg C 12V

Warning: this is total cable length not distance to product remember to add the pos and neg cable length as total

This chart for general reference only, cables sizes vary with ambient temperatures and other aspects
Use only multi strand cable not solid core cable.

Cable length meters

Sterling Power Products Copyright

AWG American Wire Gauge	Copper diameter mm	Copper Cross sectional mm sq
16	1.29	1.5
14	1.63	2.0
12	2.05	3.5
10	2.59	5.0
8	3.26	8.0
6	4.11	14.0
4	5.19	20.0
2	6.54	35.0
1	7.35	40.00
0	8.25	50.00
00	9.27	70.00
000	10.40	80.00
0000	11.68	100.00

For unknown cable simply measure ***copper conduit*** diameter and equate to the above chart.
do not measure the cable insulation diameter. Round up mm sq to nearest stock size for European