

Air-X Wire Sizing Chart

12 V			
Distance	1 Turbine	2 Turbines	3 Turbines
0 ft to 30 ft	8g	6g	4g
31 ft to 60 ft	6g	4g	2g
61 ft to 90 ft	4g	1g	0g
91 ft to 150 ft	2g	00g	000g
151 ft to 190 ft	1g	000g	0000g
191 ft tp 250 ft	0g	0000g	See Note
251 ft to 310 ft	00g	See Note	See Note
311 ft to 390 ft	000g	See Note	See Note
391 ft to 500 ft	000g	See Note	See Note

24V			
Distance	1 Turbine	2 Turbines	3 Turbines
0 ft to 30 ft	14g	12g	10g
31 ft to 60 ft	12g	8g	8g
61 ft to 90 ft	10g	6g	6g
91 ft to 150 ft	8g	4g	4g
151 ft to 190 ft	6g	4g	2g
191 ft tp 250 ft	4g	2g	2g
251 ft to 310 ft	4g	2g	1g
311 ft to 390 ft	4g	1g	0g
391 ft to 500 ft	2g	0g	00g

48V			
Distance	1 Turbine	2 Turbines	3 Turbines
0 ft to 30 ft	14g	14g	14g
31 ft to 60 ft	14g	14g	14g
61 ft to 90 ft	14g	12g	12g
91 ft to 150 ft	14g	10g	10g
151 ft to 190 ft	12g	10g	8g
191 ft tp 250 ft	10g	8g	8g
251 ft to 310 ft	10g	8g	8g
311 ft to 390 ft	10g	8g	6g
391 ft to 500 ft	8g	6g	4g

AWG	Ohms per km (77 F)
0	0.32809
1	0.4133934
2	0.5216631
3	0.6594609
4	0.8300677
5	1.0466071
6	1.3222027
7	1.6666972
8	2.1030569
9	2.6509672
10	3.346518
11	4.199552
12	5.315058
13	6.693036
14	8.464722
15	10.662925
16	13.418881
17	16.929444
18	21.358659
19	26.936189
20	34.12136

- The 50 amp stop switch is more than adequate for the 48 volt Air-X.
- The regulator range for the 48 volt Air-X is 54.4 volts to 68.0 volts, factory set at 56.4 volts.
- Maximum current from the 48 volt Air-X is slightly more than 8 amps (400 watts / 48 volt= 8.33 amps) so a 10 amp circuit breaker will do. If frequent "trips" are encountered this could be increased to 15 amps.
- The 48 volt Air-X will resume charging when battery voltage drops below approximately 52 volts.