

To choose an adequate wire gauge, determine the amp draw (amperage) that the wire circuit will carry. Then measure the distance that the wire will travel (length) including the length of the return to ground (the ground wire running to the chassis or back to a ground block or battery). Using these two numbers, Amps and length, locate the nearest gauge value in chart below.

@ 12 Volts Amps	LENGTH OF WIRE American Wire Gauge (AWG)						
	3'	5'	7'	10'	15'	20'	25'
0 to 1	18	18	18	18	18	18	18
1.5	18	18	18	18	18	18	18
2	18	18	18	18	18	18	18
3	18	18	18	18	18	18	18
4	18	18	18	18	18	18	18
5	18	18	18	18	18	18	18
6	18	18	18	18	18	18	16
7	18	18	18	18	18	18	16
8	18	18	18	18	18	16	16
10	18	18	18	18	16	16	14
11	18	18	18	18	16	16	14
12	18	18	18	18	16	16	14
15	18	18	18	18	14	14	12
18	18	18	16	16	14	14	12
20	18	18	16	16	14	12	10
22	18	18	16	14	12	12	10
24	18	18	16	14	12	12	10
30	18	16	14	12	10	10	10
36	16	14	14	12	10	10	10
40	16	14	12	12	10	10	8
50	16	14	12	10	10	10	8
100	12	12	10	10	6	6	4
150	10	10	8	8	4	4	2
200	10	8	8	6	4	4	2

**CAUTION:** PUTTING TOO MANY COB LEDS ON ONE POWER-CORD can cause overheating and poor light performance. USE THIS CHART TO DETERMINE WIRE GAUGE AND MAXIMUM NUMBER OF COBS YOU CAN ATTACH TO EACH POWER-CORD

USE BATTERY CLIPS OR ATTACH DIRECT TO BATTERY TERMINALS.

**Each 15W COB pulls 1.25 amps**

**Each 30W COB pulls 2.5 amps**



COB LEDS

Fits 1.25"  
Schedule 40  
PVC Fittings



**For BELOW Water Use Only!**

**CAUTION: DO NOT OVER TIGHTEN WHEN THREADING COB INTO PVC.**  
The COB May Not screw completely into the PVC fitting. **DO NOT OVER TIGHTEN** or the light can be damaged.

**CAUTION: DO NOT UNSCREW THE LENS COVER OR DISASSEMBLE THE LIGHT.**  
There are no replaceable parts in this light. Disassembly or unscrewing the lens cover may cause the light to leak!

**Correct Polarity is Required**  
The light will NOT work and may be damaged if you reverse the Positive and Negative wires.  
Double Check your wiring before applying power to the light.

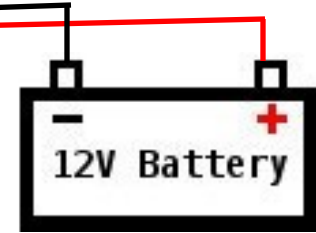
**Questions?**  
**(785)621-2646**  
**Fishing Lights Etc. LLC**  
**fishinglightsetc.com**



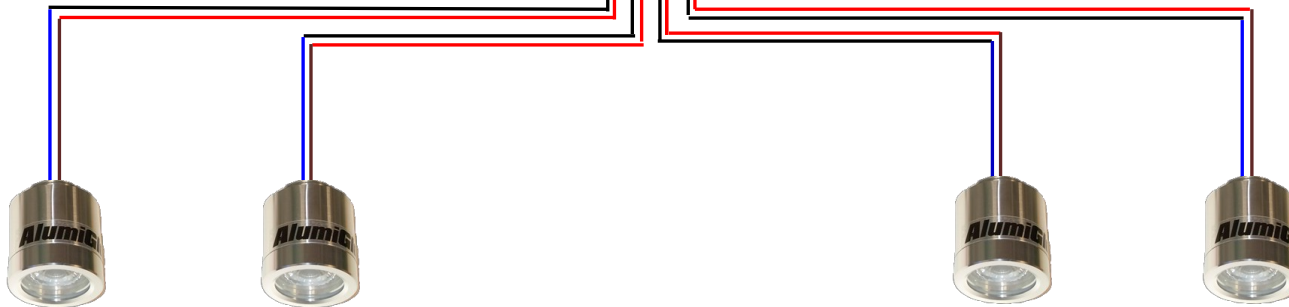
# COB LEDs

COB threads fit  
1.25" Schedule 40 PVC

Twist all "Positive" COB wires together  
Twist all "Negative" wires together  
Attach to a 16-18 gauge power cord.  
Do not attach more than (6) COBs per power-cord



**COB Wiring**  
Red or Brown Wire is POSITIVE  
Black or Blue Wire is NEGATIVE  
Connect Red/Brown Wire to Red Positive Wire  
Connect Black/Blue Wire to Black Negative Wire



**Correct Polarity is Required**  
The light will NOT work and may be damaged if you reverse the Positive and Negative wires.  
Double Check your wiring before applying power to the light.