

# LOW VOLTAGE LED LIGHTING WIRE GAUGE CHART



	10 W	20 W	30 W	40 W	50 W	60 W	70 W	80 W	90W	100 W	110 W	120 W	130 W	140 W	150 W	160 W	170 W	180 W	190 W	200 W	210 W	220 W	230 W	240 W
40'	16	16	16	16	16	14	14	14	12	12	12	12	12	12	12	12	12	12	12	10	10	10	10	10
60'	16	16	16	16	14	14	14	12	12	12	12	12	12	12	12	12	12	12	10	10	10	10	10	10
80'	16	16	16	14	14	14	12	12	12	12	12	12	12	12	12	10	10	10	10	10	10	10	10	8
100'	16	16	14	14	14	12	12	12	12	12	12	12	10	10	10	10	10	10	10	8	8	8	8	8
120'	16	14	14	14	12	12	12	12	12	12	10	10	10	10	10	8	8	8	8	8	8	8	8	8
140'	14	14	14	12	12	12	12	12	10	10	10	10	10	8	8	8	8	8	8	8	8			
160'	14	14	12	12	12	12	12	10	10	10	10	8	8	8	8	8	8	8						
180'	14	12	12	12	12	12	10	10	10	10	8	8	8	8	8	8								
200'	12	12	12	12	12	10	10	10	8	8	8	8	8	8	8									
220'	12	12	12	12	10	10	10	8	8	8	8	8	8											
240'	12	12	12	10	10	10	8	8	8	8	8													
260'	12	12	10	10	10	8	8	8	8															
280'	12	12	10	10	10	8	8	8	8															
300'	12	12	10	10	10	8	8	8	8															
320'	12	12	10	10	10	8	8	8	8															
340'	12	12	10	10	10	8	8	8	8															
360'	12	10	10	10	8	8	8	8																
380'	12	10	10	10	8	8	8																	
400'	10	10	10	8	8	8	8																	

Note: 16 gauge wire should only be used downstream of a larger wire and should not be connected directly to the transformer.

Wire Gauge	16	14	12	10	8
Max Amps	10	12	16	24	32
Max Watts	120	144	192	288	384

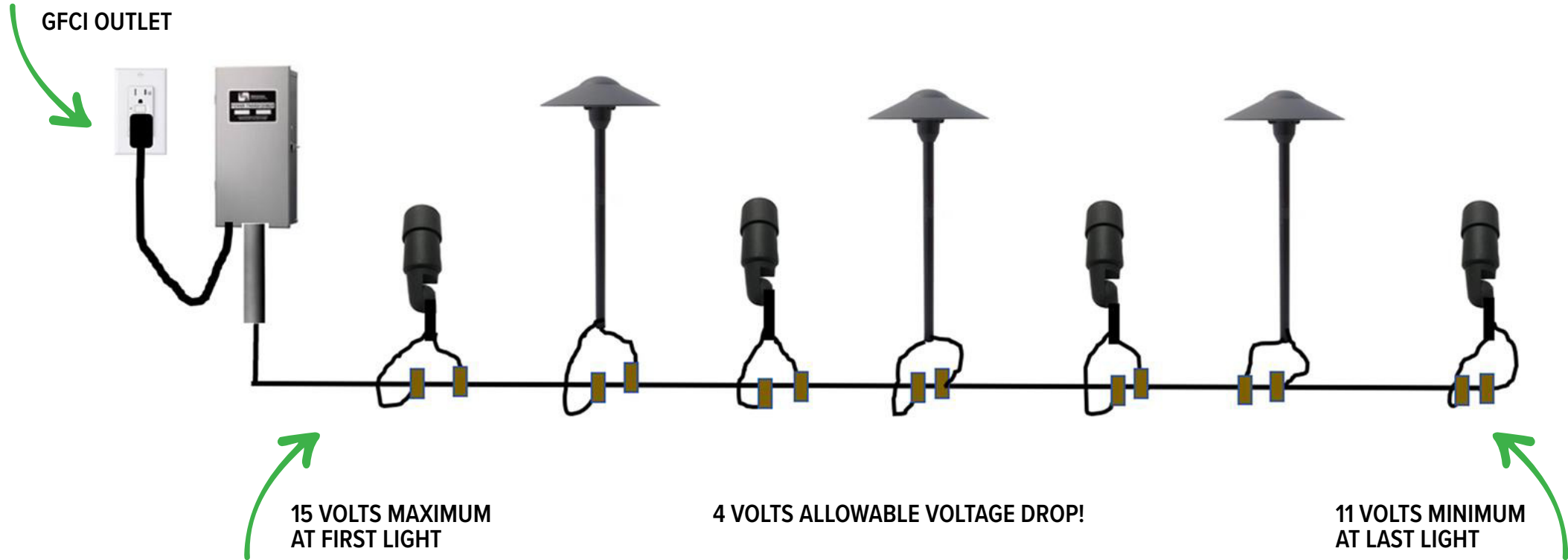
## INSTRUCTIONS

Add up the total wattage of all the lights you plan to connect to the wire.  
 Measure the distance of your wire run from your transformer to the last light.  
 Use the chart to determine what size wire each wire run on your job requires.  
*Note: You may have multiple wire runs going different directions from your transformer.*



**WATTAGE CONSUMPTION (VA) SHOULD NOT EXCEED MORE THAN 80% OF THE TRANSFORMER'S WATTAGE CAPACITY.  
 REFER TO THE LED MANUFACTURER'S SPECIFICATIONS TO DETERMINE SPECIFIC VA.**

# EASY STRAIGHT THROUGH WIRING FOR PROFESSIONAL LED OUTDOOR LIGHTING



Use your Volt / Ohm meter to test the voltage



Always use a good quality waterproof connector

# LOW VOLTAGE OUTDOOR LIGHTING INSTALLATION



UL1838 LISTED  
LANDSCAPE LIGHTING  
TRANSFORMER

MULTIPLE WIRE RUNS  
CAN BE CONNECTED  
TO ONE TRANSFORMER

*Note: This example is  
showing only one wire run*



15 VOLTS MAXIMUM  
AT FIRST LIGHT

11 VOLTS MINIMUM  
AT LAST LIGHT



Up lights illuminate the vertical walls and corners of the house. Use 4W lamps for one story walls, 5W lamps for two story walls, and 6W lamps for trees over two stories tall.



Wash lights illuminate the walls underneath the windows behind the shrubs. Install the fixture down low about 8" to 12" from the house.



Path lights illuminate the sidewalks and pathways. Place the path lights 8' - 10' apart for continuous light.



Use a quality waterproof connector. You will need two connectors for each fixture. Connections should only be at the fixtures.