

CONSTANT VOLTAGE (SL41/SL224/SL234/SL231/SL241/SL910)

- PARALLEL wiring for multiple lights
- LARGER CABLE required for long runs
- MORE FAULT TOLERANT a single fault will normally only put one light out
- MORE RUGGED DURING INSTALL reversed or live connection does not destroy lights use LED Tester to check wiring (SL307)

To calculate the cable size required calculate the total current by multiplying the number of lights by the current per light:

Type	12V System: Current per light (Amps)	24V System: Current per light (Amps)
SL231/SL241	0.002	Do not use
SL41	0.13	Do not use
SL224/SL234/SL910	0.44	0.22

Cable Size Guide Constant Voltage								Cable Size Guide Constant Voltage							
Lights Evenly Distributed TABLE 1								Lights Mostly Near Cable End TABLE 2							
Total Current	Total Cable Length (m)							Total Current	Total Cable Length (m)						
	10.00	15.00	20.00	25.00	30.00	40.00	50.00		10.00	15.00	20.00	25.00	30.00	40.00	50.00
0.1															
0.3															
0.4															
0.5															
0.7															
0.8															
0.9															
1.0															
1.2															
1.3															
1.4															
1.6															
1.7															
1.8															
2.0															
2.1															
2.2															
2.3															
2.5															
2.6															
2.7															
2.9															
3.0															
3.1															
3.3															
3.4															
3.5															
3.6															
3.8															
3.9															

Example1 : 10 x SL41 lights evenly distributed along a 50m cable.
 $10 \times 0.13A = 1.3Amps$. Use table 1 to determine we need 1.5mm² CSA for the cable cores @ 50meters.
 Example2 : as above but all lights near end of cable. Use Table 2. Now we need 2.5mm² CSA for each core of the cable.