SLABlite™

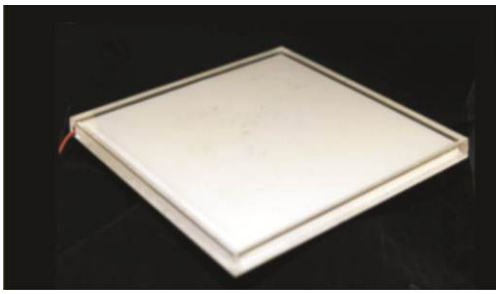
Quick-Start Reference

April 1, 2018

17831 Sky Park Circle Suite A Irvine, CA 92614 877-723-2900

Thank you for purchasing SLABlite Panels

SLABlite Panels are the ultimate solution to back-lighting stones like onyx, solid surface translucent materials for countertops and other back lighting challenges. This energy efficient product is waterproof, durable and provides consistent even lighting for many surfaces with an expected life of 20 years. The SLABlite can be custom cut on the jobsite.



SLABlite Tile Specifications:

- Dimensions 12.0" x 12.0" X 0.375”
- Voltage 12VDC
- Power 1.92 watts per panel
- Draw .16 amps per panel @ 12VDC

Working with the SLABlite Panel

The Reference Direction (RD) refers to the location of the LED light strip to the panels orientation. The flow of light from the LED light strip determines the correct orientation of the panel.

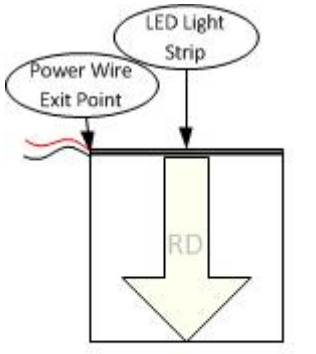


Figure 2

Panels should be installed right next to each other with no gaps to avoided shadows.

Do not install two panels with light strips touching as this will result in a dark unlit strip where the panels meet.

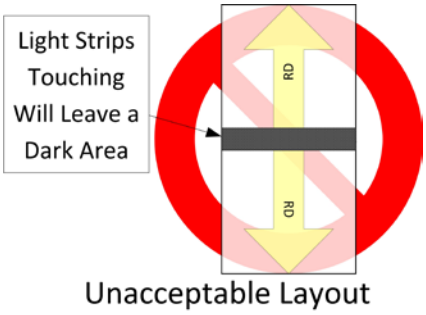


Figure 1

Cutting SLABlite Panels

SLABlite panels can be cut to work around shapes like sinks curved countertops. SLABlites should be cut on one of the 3 - sides away from the “Light-Strip” whenever possible. Contact SLABlite Inc if your layout requires the Light-Strip to be cut.
Figure 3 below illustrates safe cuts or acceptable cuts to the SLABlite in the left and center diagrams and an unacceptable cut on the far right. It is recommended that you layout the SLABlites so it is not necessary to cut the Light-Strip edge if possible.

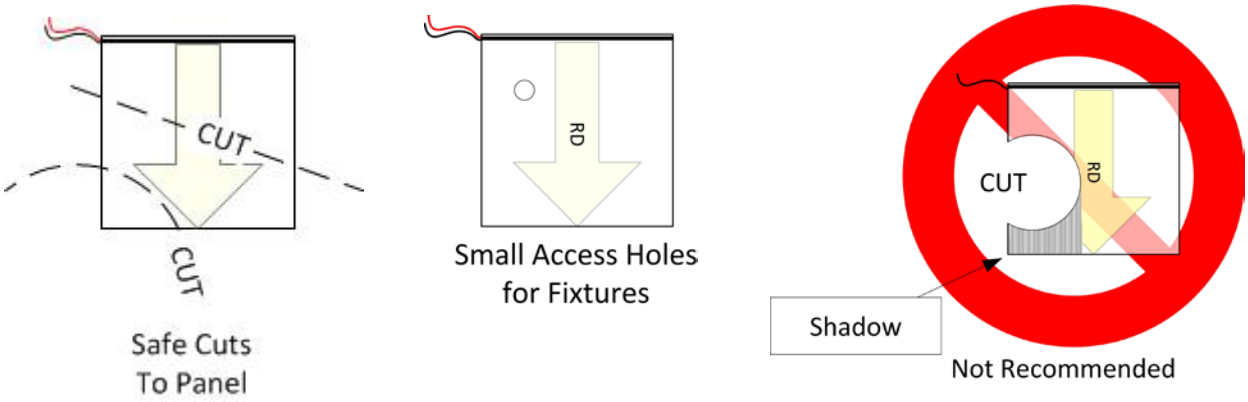


Figure 3

The SLABlite panel is an encapsulated light guide. The LEDs project light across a printed or molded pattern and then the light is guided towards the face of the panel at 90%. If you need to cut one SLABlite within 3 inches of the LED light-strip the SLABlite might be slightly brighter than the other SLABlites. It would be best to split the distance between two SLABlites equally.

The SLABlite panel is encapsulated and waterproof. If you cut the SLABlite, the SLABlite must be resealed. You can reseal the SLABlite simply by applying silicone to the edge that you cut. Apply the silicone making sure to seal the edge. Allow 24 hours to cur. You can keep working, just put the SLABlite in place and let it cur.

The SLABlite can be cut with a Skil circular saw, table saw, jigsaw, bandsaw using a fine-tooth blade. Or a router can be use with a wood bit.

The SLABlite panel light-strip edge can be cut. Every inch there are three LEDs wired in series, and then this group of LEDs is wired in parallel with the other groups. If you cut into the single group of LEDs, they will all fail to light, and you will lose light back to the next cut line. Please review figures 4a, 4b, and 4c to see where you can cut.

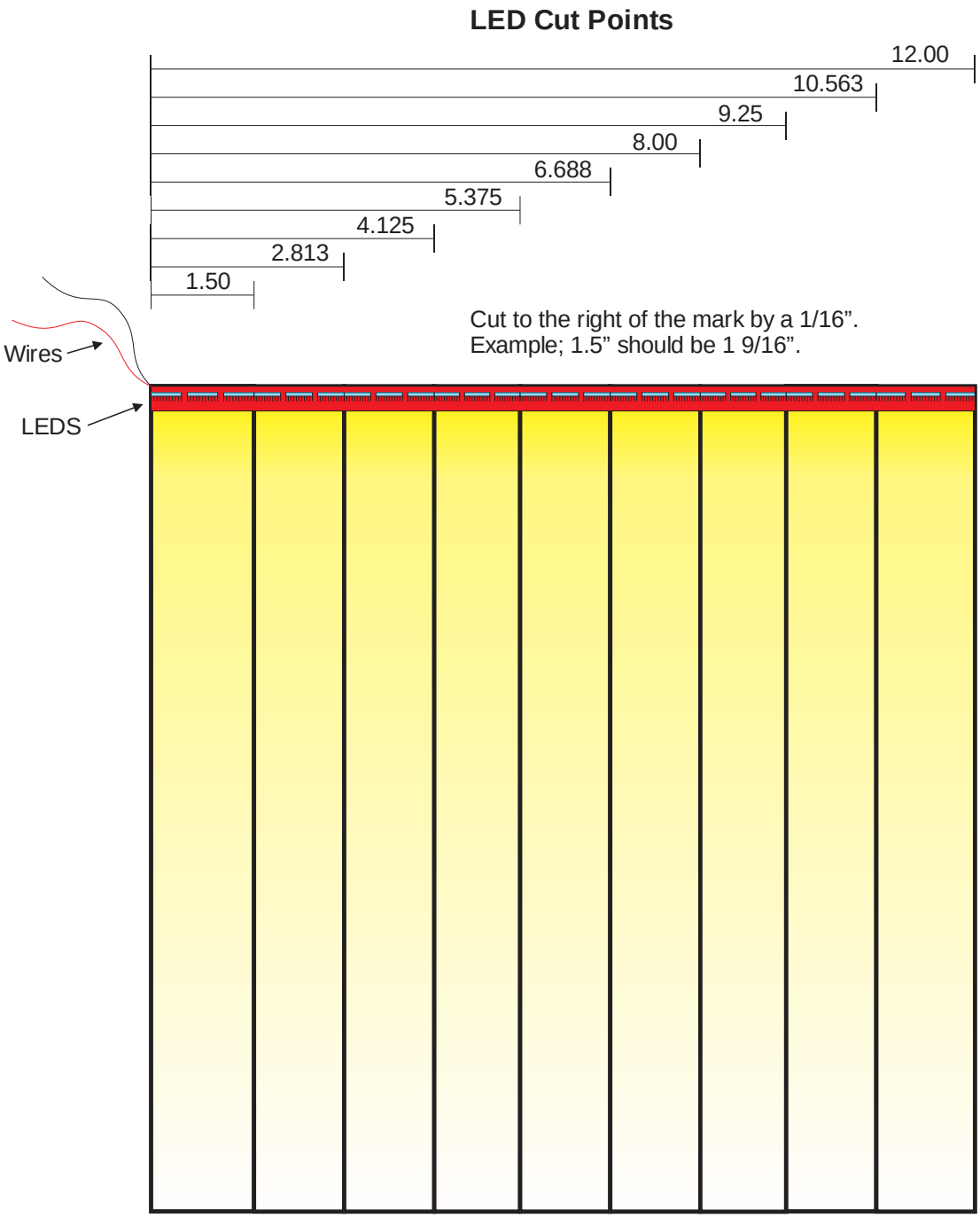


Figure 4a

LED Cut Points

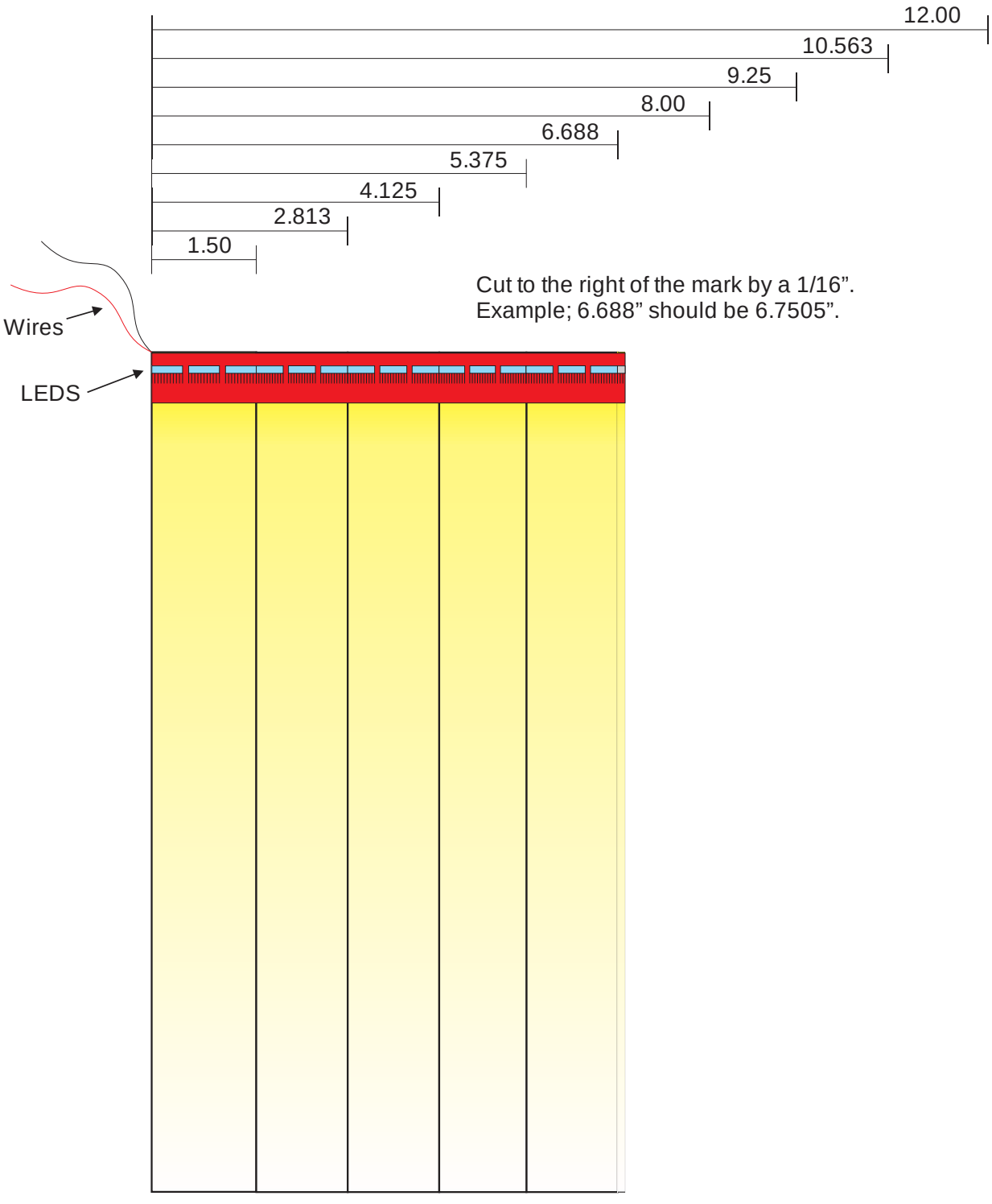


Figure 4b

LED Cut Points

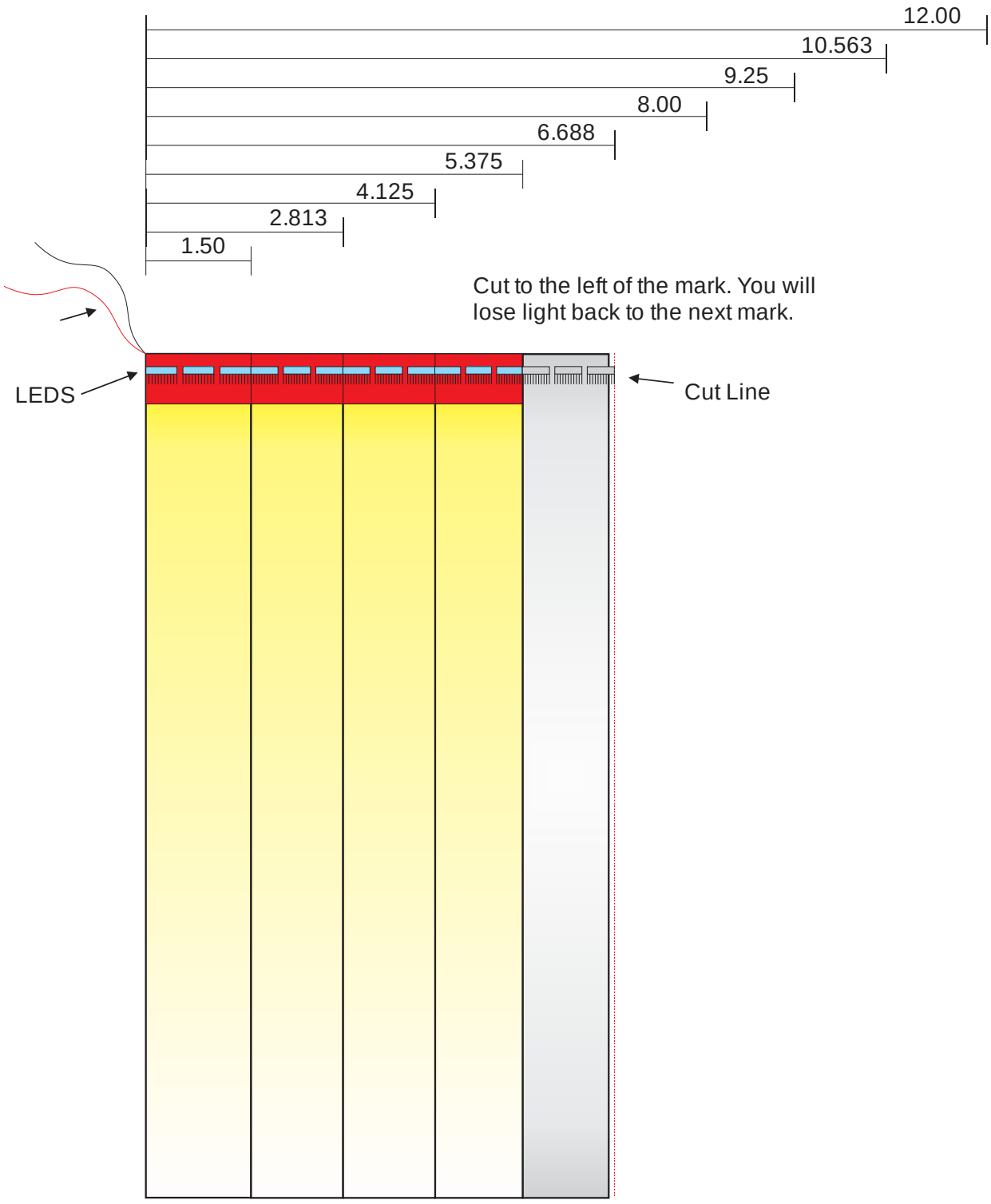


Figure 4c

SLABlite Layout

Figure 4 shows a typical layout with a return on each side. Red dots indicate wire location on each tile. For more information on ***sample layouts*** see our website.

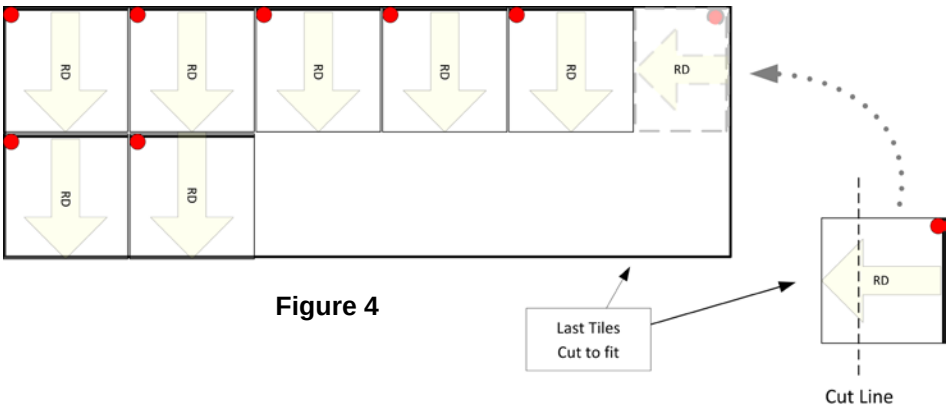


Figure 4

Cut Channels for wire and connections.

A paddle bit may be used to create a larger pocket in the substrate to conceal the wire and connectors at each panel location.

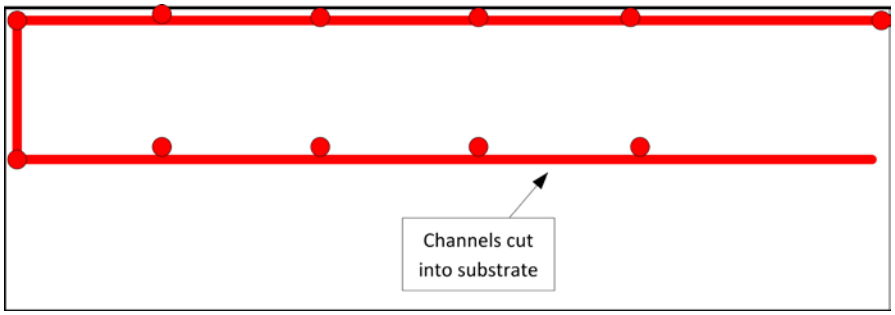


Figure 5

Substrate and Cabinet Considerations

SLABlite panels require a clean firm and solid surface to be adhered too. The SLABlite panels are fitted much like 12 X 12 ceramic panels while paying attention to the reference direction.

Electrical Requirements

SLABlites require 12VDC to power the proprietary LED Light Strip. Proper protection of the DC Circuit is important to insure the life of the panels. A 60-Watt LED driver (power supply) is recommended for up to 24 Panels. Calculate proper fuse size based on .16 amps per panel @ 12VDC. A 4.0-amp fuse is required for 24 SLABlites.

A typical power plan might look like the diagram below

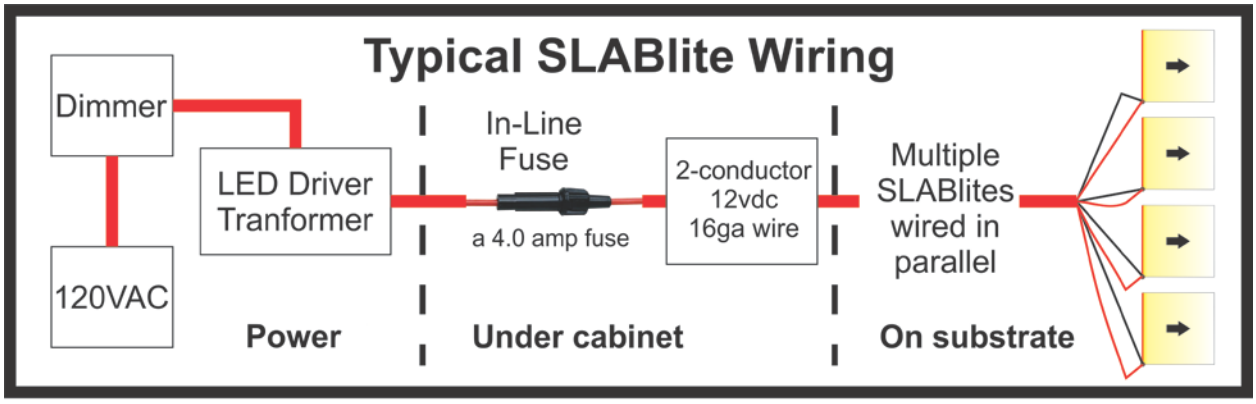


Figure 6

A typical power plan might look like the diagram below.

Wiring

SLABlite panels are to be wired in parallel. Wiring may be completed with 16/18AWG stranded or solid copper. Insulation Displacement Connections (IDC) like 3M's Scotchlok, or insulated soldered joints may be used.

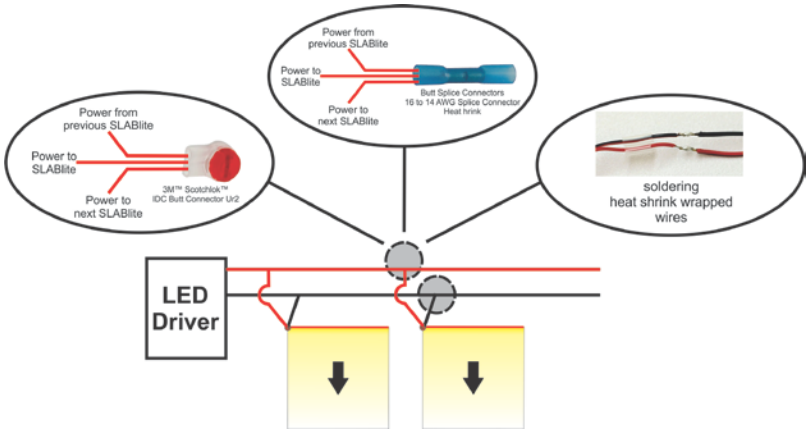


Figure 7

Setting / Wiring Panels

Once the layout is decided upon its time to wire, test and adhere the panels to the substrate.

Figure 8
12VDC to substrate

Figure 9
Connector / wires secured with hot glue

Figure 10
SLABlite tested, glued in place

Figure 11
Fixture and sink cutouts

Figure 12
Installed counter SLABlite panels

Counter Top Surface

Caution is advised during the placement of the countertop. SLABlite, Inc. recommends the use of DAP DYNAFLEX 230 ***CLEAR*** sealant to adhere the counter top to the SLABlites.

It is important to keep the SLABlite panels lit during the installation of the counter top surface to insure no connections are disrupted or panels are damaged during the installation.

EMCOD
ElectroMagnetic Component
Optimal Design

Compatible Lutron dimmers

DIVA

DVELV-303P
DVRP – 253P
DVF – 103P

MAESTRO

MACL - 153M
MSCL - 153M
MAELV-600

Nova T

NTF-10
NF-10P

Grafik T

GTJ -250M
GT – 250M
GTJ – 150
GT – 150

Caseta

PD-10NXD

Note:

These dimmers were tested with EMCOD's magnetic voltage drivers with LED tape.

Other dimmers may be compatible, as well.

The performance of the dimmers may vary with the different LED load type.

The list may change without notice.

6925 Eton Ave. Canoga Park, CA 91303
Tel: 818 904 3309 • Fax: 818 904 3327
• www.emcod.com