



SLABliteTM

Quick-Start Reference

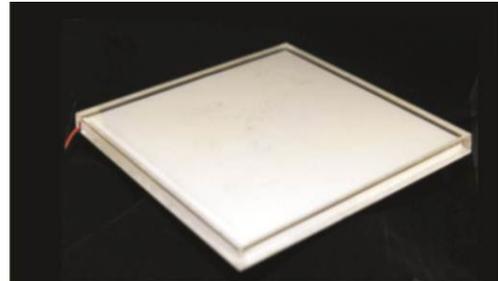
April 1, 2014

Thank you for purchasing TylerCo's 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.

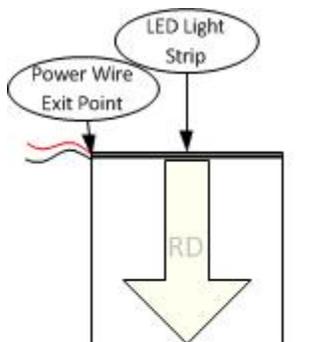
SLABlite™ Tile Specifications:

- 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 SLABlite Panel

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

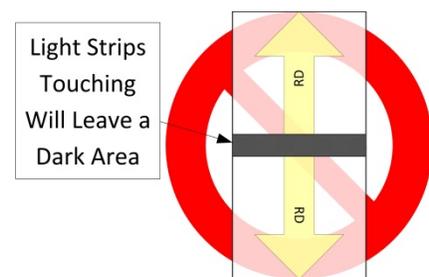


RD Arrow =
Indicates the Tiles
Reference Direction

Figure 2

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

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



Unacceptable Layout

Figure 1

Cutting SLABlite Panels

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

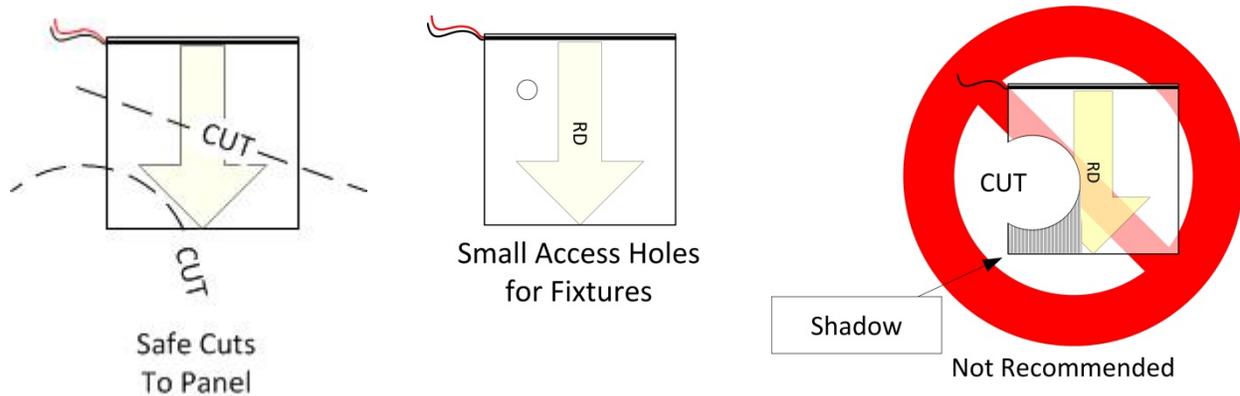


Figure 3

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 panels 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.

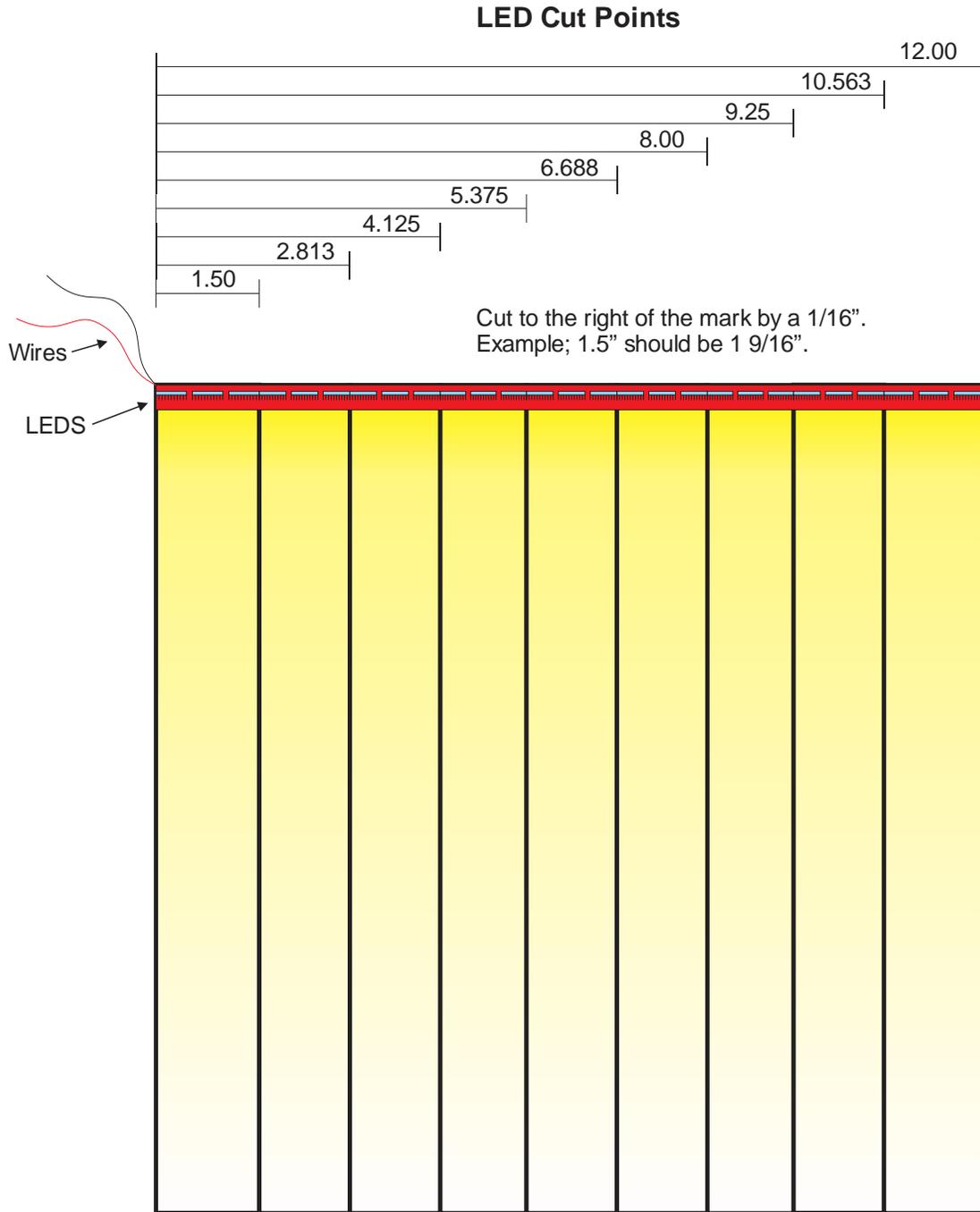


Figure 4a

LED Cut Points

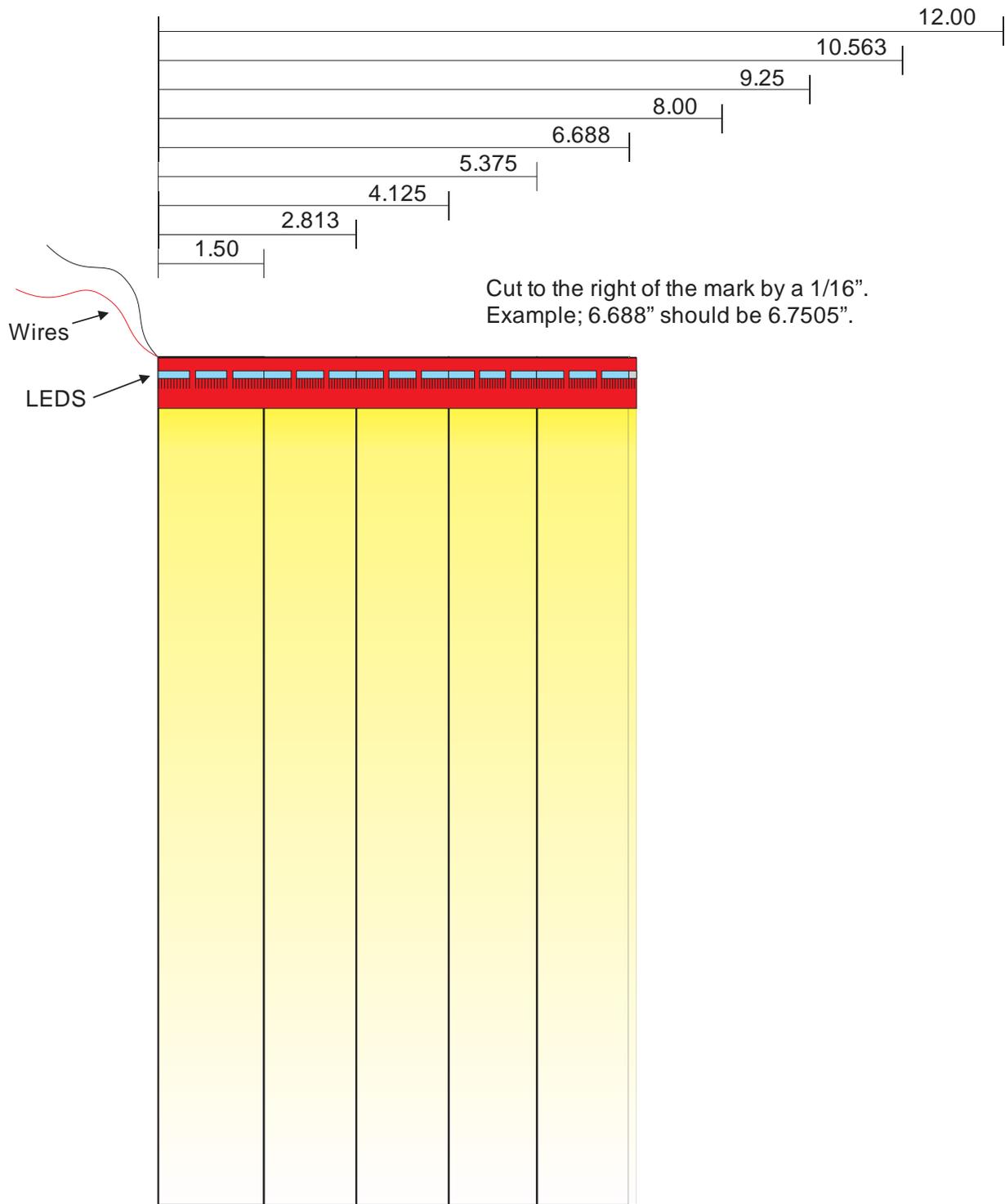


Figure 4b

LED Cut Points

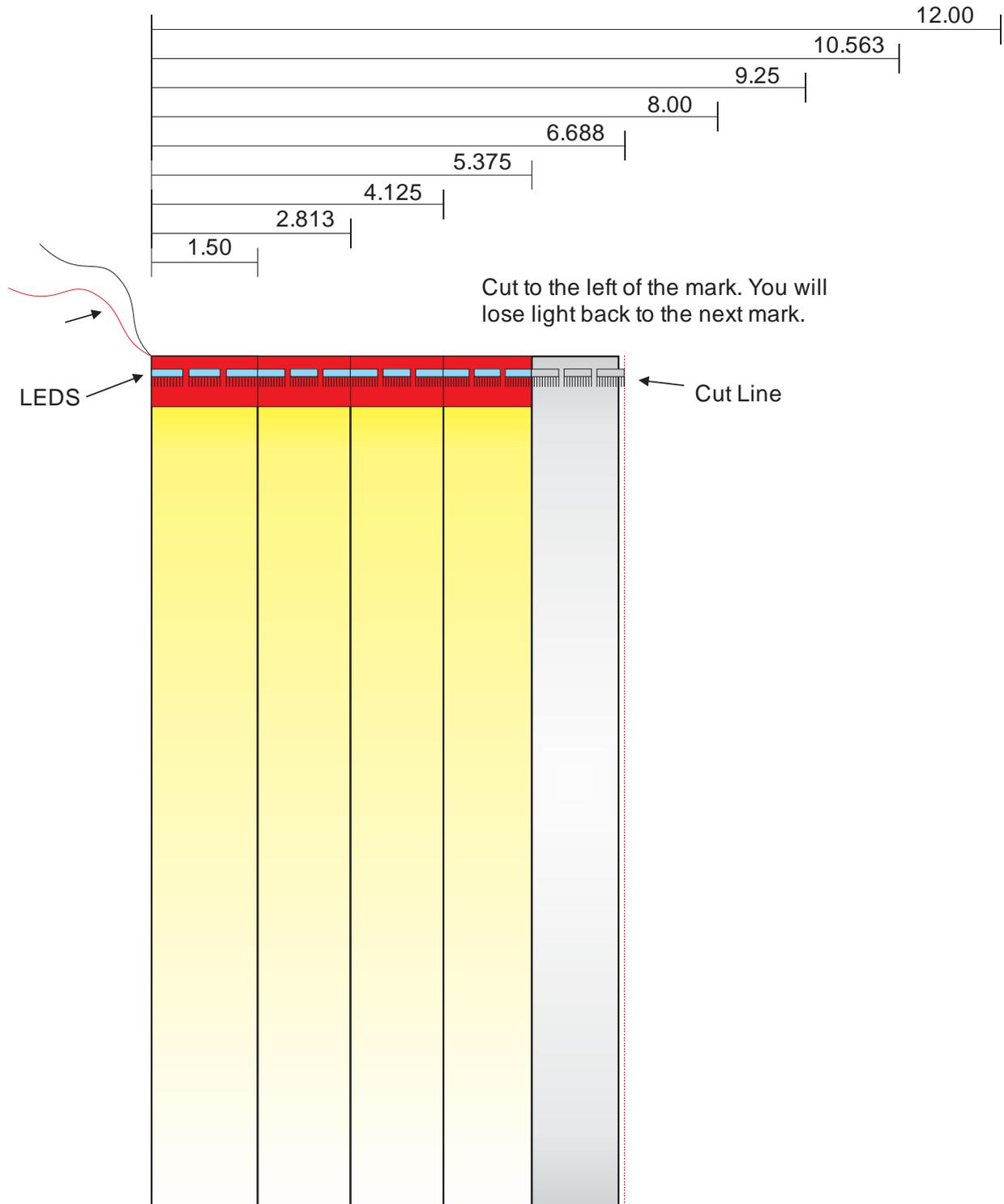
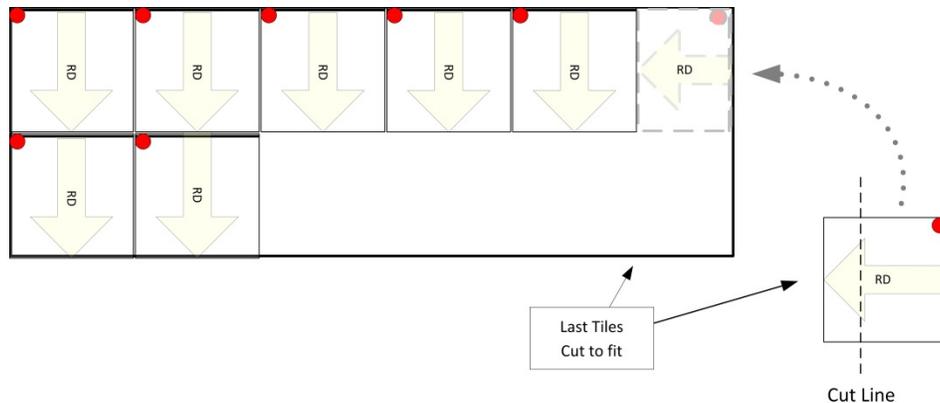


Figure 4c

SLABlite Tile 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.



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.

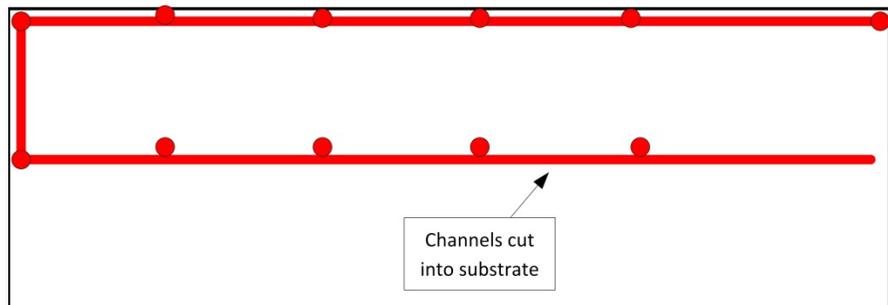


Figure 6

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

TylerCo's SLABlite panels 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 typical power plan might look like the diagram below.

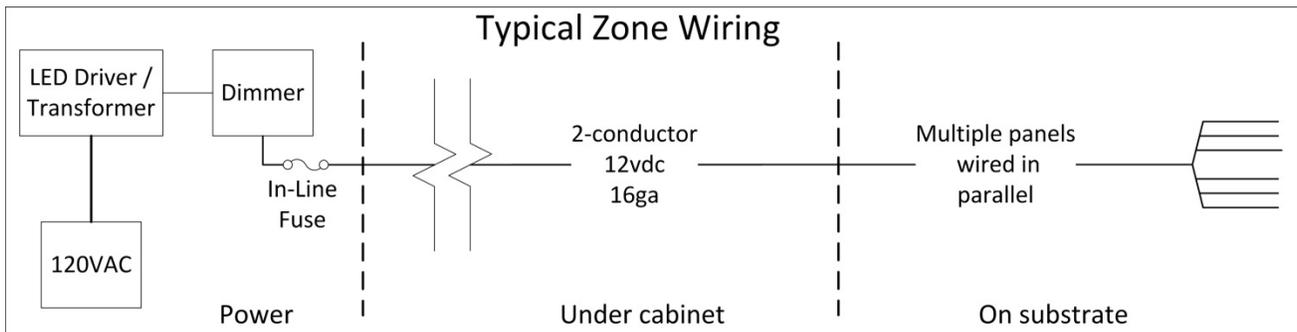


Figure 7

Wiring

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

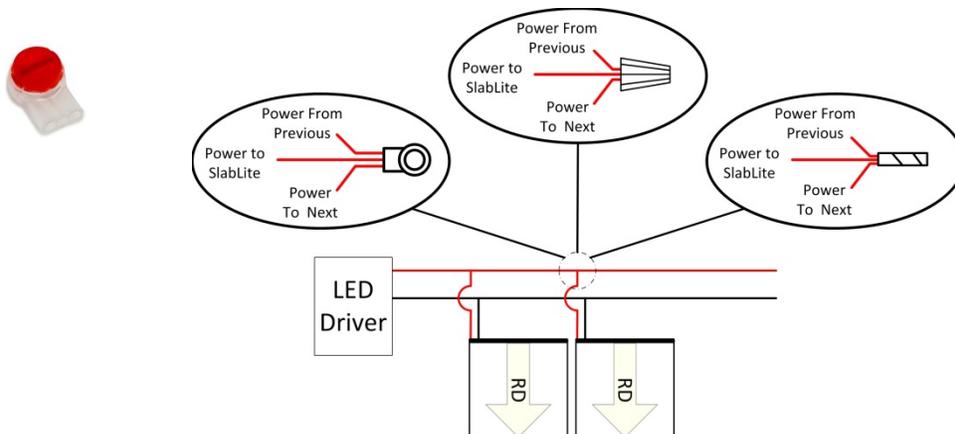


Figure 8

Setting / Wiring Panels

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



Figure 9
12VDC to substrate



Figure 10
Connector / wires secured with hot glue



Figure 11
Panel tested, glued in place



Figure 12
Fixture and sink cutouts



Figure 13
Installed counter SLABlite panels

Counter Top Surface

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

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.