24V VERSALINE ..explained

What is Versaline?
Versaline is a ground-breaking proprietary Low Voltage Lighting System that in its simplest form allows the user to illuminate standalone products via a compact 24V DC power supply and in its highest utility will allow users to create and illuminate dynamic multi-product lighting configurations.

Versaline is constructed of high grade commercial components and this durable product is designed for indoor and outdoor use. The system runs on 24 volts, a non-lethal current, that enables safe, low voltage installation.

Versaline is versatile. The Versaline lights and infrastructure components can be used in conjunction with each other. Add a controller(s) so the entire light display is capable of phasing, morphing, flashing, chasing and more.

How to use Versaline:
Start with a waterproof **Power Supply**. There are 3 options:

Small
Powers up to 280 lights
Item S4-1100781

Medium
Powers up to 2,000 lights
Item S4-1100631

Large
Powers up to 4,000 lights
Item S4-1100826

Controllers (not required)**:** There are 2 options:

8 Function Controller

1. Steady on
2. Combination
3. In waves
4. Sequential
5. Slo-Glo
6. Chasing/flashing
7. Slow fade
8. Twinkle/flash

Load Limit: 480 lights (single LED type)

Item S4-1100784

10 Function Controller

1. Steady on
2. Single bulb chase
3. Two bulb chase
4. Single bulb fade
5. Two bulb fade
6. Flashing
7. Twinkle
8. Sequential fade in, fade out
9. All fade
10. Fade to dim

8 speed settings (used as dimmer when set to steady on function)

Load Limit: 4800 lights (single LED type) – has a timer function

Item S4-1100785

Extension Cords (not required)**:** There are 3 lengths and each come in white or green cord. All of the Versaline light styles can be connected to an extension cord.

White Extension Cord

6’ – item S4-1100620

12’ – item S4-1100621

25’ – item S4-1100622

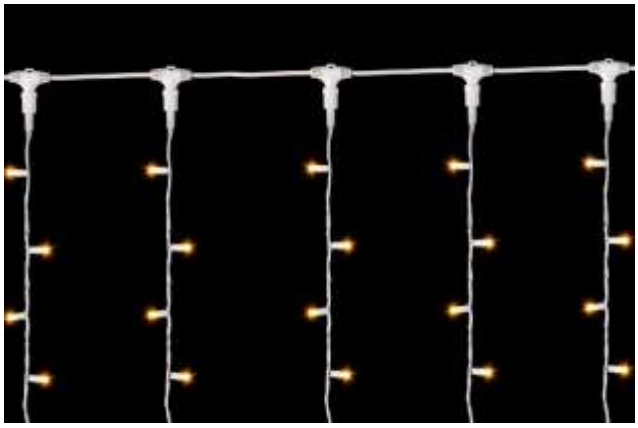
Green Extension Cord

6’ – item S4-1100617

12’ – item S4-1100618

25’ – item S4-1100619

Motherlines: There are 2 sizes and each come in white or green cord. All of the Versaline light styles can be connected to a motherline.



White Motherline

6’ – 12 T-Taps – item S4-1100625

12’ – 24 T-Taps – item S4-1100626

White motherlines have more T-Taps because most applications such as light curtains in malls and commercial settings will use white wire and require more T-Taps.

The above motherline is shown with 5MM Warm White light curtains.

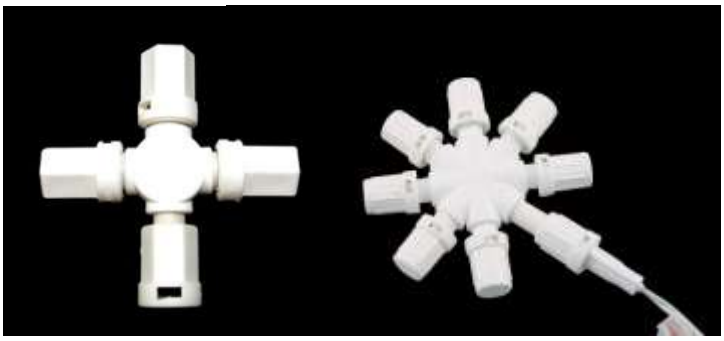
Green Motherline

6’ – 3 T-Taps – item S4-1100623

12’ – 6 T-Taps – item S4-1100624

The above motherline is shown with a purple Lightning Light.

Splitters: 4-Way and 8-Way splitters come in white and green. They can be used with and without extension cords and/or motherlines.



4-Way splitter, white – item S4-1100629
8-Way splitter, white – item S4-1100630

4-Way splitter, green – item S4-1100627
8-Way splitter, green – item S4-1100628

All of the mentioned products from the power supplies to the splitters are defined as infrastructure. The Versaline infrastructure is designed to carry four lines (channels) of current to enable the user to create intricate displays using a controller or integrated circuit.

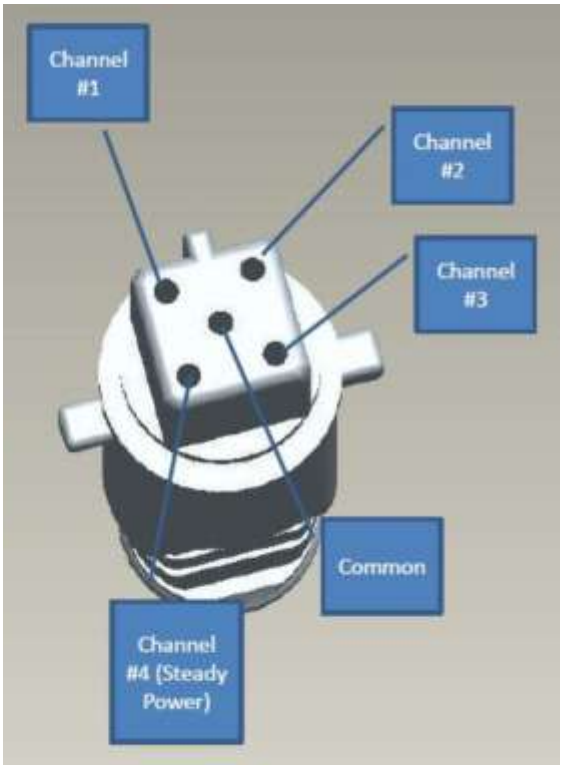
Versaline plug configuration:

Channel 1 – controllable

Channel 2 – controllable

Channel 3 – controllable

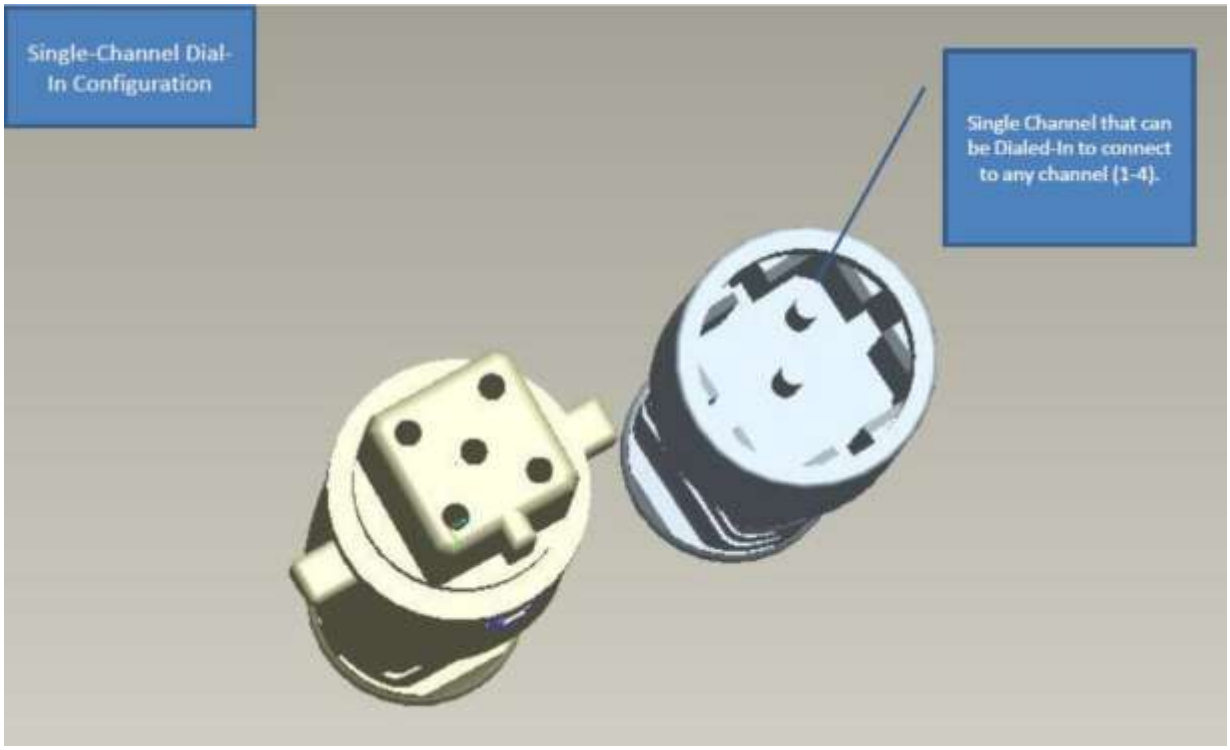
Channel 4 – not controllable (steady power only)



Versaline: Single Channel vs. 3-Channel

Versaline light systems come in single channel or 3-channel.

Single Channel Defined



With single channel Versaline lights, every bulb behaves the same.

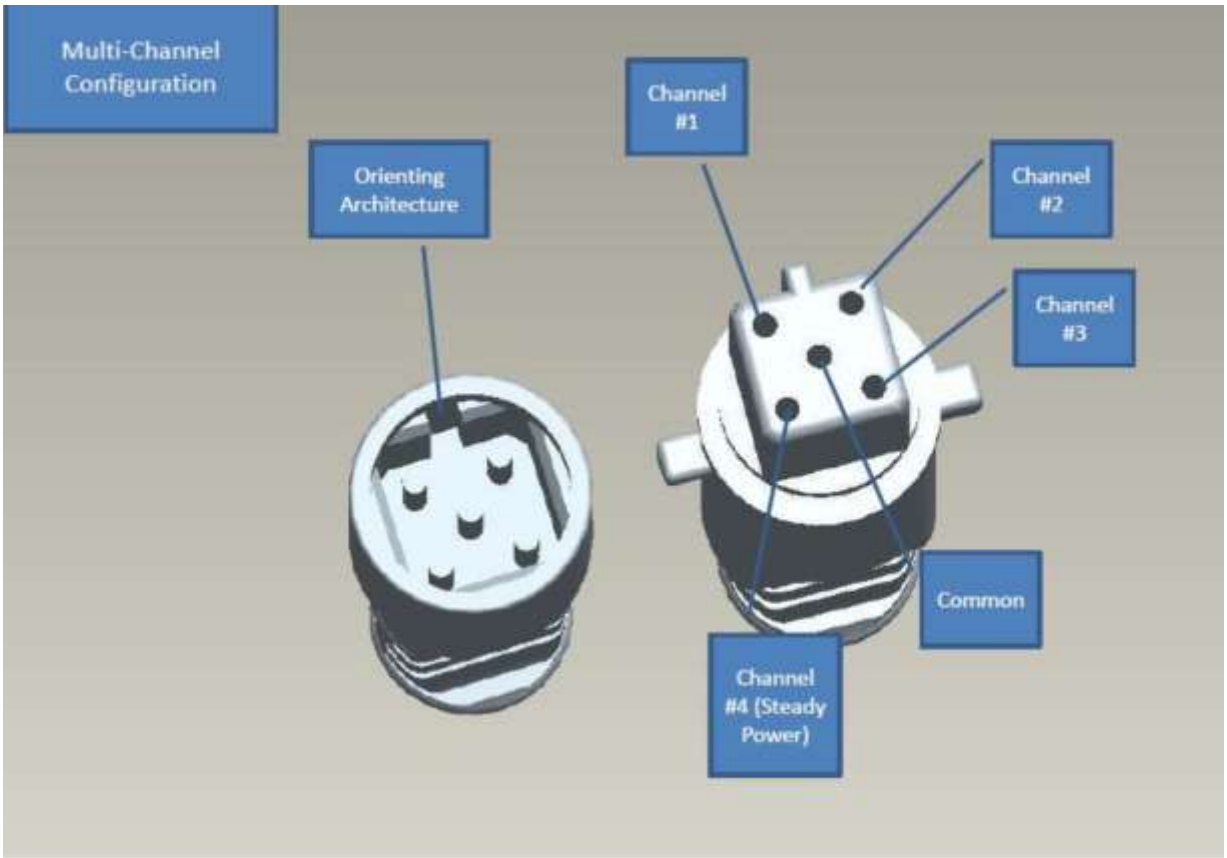
No Controller: If there is no controller, all lights are steady on only.

Controller: Adjust the plug orientation to dictate what channel the lights are powered from. All lights will maintain the same function but if they are on different channels, the timing of the function will be different.
To view, control + click on link: **Versaline Lights LED Single Channel Light String - 24V**

Some single channel lights, such as Meteor Shower and Lightning Lights have an integrated circuit (IC) built into it and no controller is necessary.
To view, control + click on link: **Versaline Lights LED Lightning Light String - 24V** **and** **Versaline Lights LED 5MM WA Meteor Shower Lights - 24V**

Use single and 3-channel lights together to achieve a spectacular display.

3-Channel Defined



With 3-channel Versaline lights, every **3rd** bulb behaves the same.

No Controller: If there is no controller, all lights are steady on only.

Controller: You cannot adjust the plug orientation, however, intricate lighting functions can be achieved using 3-channel lights and/or lighting components. Using imagination and the options on the controllers the combinations are limitless for awe inspiring effects.

To view 3-channel light string, control + click on link: **Versaline Lights LED 3 Channel Light String - 24V**

To view 3-channel hanging crab light, control + click on link:**Versaline Lights LED 5MM WA Multi-Channel Hanging Crab Lights - 24V**

To view 3-channel crab light, control + click on link: **Versaline Lights LED 5MM WA Multi-Channel Crab Light String - 24V**

Check out the entire Versaline Commercial LED System Collection on YouTube!

To view, control + click on link: http://www.youtube.com/user/1000Bulbs/videos

Versaline Linkability:

Keep in mind Versaline is a low voltage product. This means if you connect too many sets together "voltage drop over distance" will occur. This means the lights towards the end will be dimmer than the lights closer to the plug. This is overcome by connecting component sets within the manufacturers' specified limits. A few examples:

Straight Line Sets – 1152 lights (approx. 24 sets of 48 lights)
Icicle Lights – 1152 lights (approx. 12 sets of 96 lights)
Net Lights – 1152 lights (approx. 12 sets of 96 lights)
Crab Lights – 1440 lights (approx. 6 sets of 240 lights)

The effects of voltage drop over distance can be reduced by branching off the infrastructure, such as a motherline or splitters, as often as possible.