PowerView® Gen 3 Automation Wiring Compatibility in Pre-Wired Homes

This document specifies the types of wiring which are compatible with PowerView® Gen 3 Automation, using the 16 Shade DC Power Supply. It also shares examples of compatible wiring from competitors to help better identify in the field. If you are looking for wiring compatibility for PowerView+™ Gen 3, please refer to the separate *PowerView+ Gen 3 Automation Wiring Compatibility in Pre-Wired Homes* document.

IMPORTANT: Wiring *must* be done by a qualified person in accordance with all applicable codes and standards**.**

16 Shade DC Power Supply Compatible Wiring

PowerView Gen 3 shades can be hard-wired for power using the 16 Shade DC Power Supply, which can power up to 16 shades. This power supply is compatible with low-voltage wiring that meets the following requirements:

- Must be between 12 and 18 AWG. (See note below.)
- Must have at least two conductors.
- Must provide a home run connection from the shade location to the power supply (no daisy-chaining).
- Wire run *must not* exceed maximum distance per output based on wire gauge, as indicated on the table below.

Maximum PowerView Gen 3 Automated Window Treatments per Output	Maximum Distance per One Output Based on Wire Gauge			
	12 AWG	14 AWG	16 AWG	18 AWG
One Window Treatment	**1500 feet**	**800 feet**	**300 feet**	**300 feet**

NOTE: If using a 12 AWG wire, the wire must be stripped to 14, 16, or 18 AWG at the termination points in order to fit into the provided terminals. This option is *only* available with stranded wire.

Examples of Competitors' Wiring

Somfy®, Lutron®, Crestron®, Screen Innovations, and Savant

Somfy®, Lutron®, Crestron®, Screen Innovation, and Savant shades often use cables that meet the compatibility requirements listed above. Here are some examples to look for in homes that have been wired for these types of shades.

- 2 stranded wires in a single cable, with an AWG between 12 and 18.
- 4, 5, or 6 stranded wires in a single cable, including 2 power conductors with an AWG between 12 and 18. These cables will have conductors for power, communication, and possibly a drain wire.

QMotion®/Legrand® Shading Systems and PowerShades

QMotion® shades may use CAT5 or CAT6 cables.

- CAT5 and CAT6 cables consist of 4 pairs of twisted wire, in colors blue, green, orange, and brown.
- These wires will have a gauge between 22 and 26 AWG.

IMPORTANT: You will need to join multiple wires together to get an effective gauge, in order to use this cable for power. If you start with 24 AWG CAT5 wire, the most common size, and twist 4 wires together, effective gauge would be 18AWG. Twist the striped wires together for the Power + conductor; twist the solid wires together for the Power - conductor. Because of these wiring challenges, Cat5/Cat6 should ONLY be used when the home was already prewired that way and there is no way to change it.

CAUTION: Category cable typically uses solid core conductors which can be easily damaged. Use caution when twisting the wires together. We strongly recommend either tinning the wires or utilizing crimp-on ferrules.

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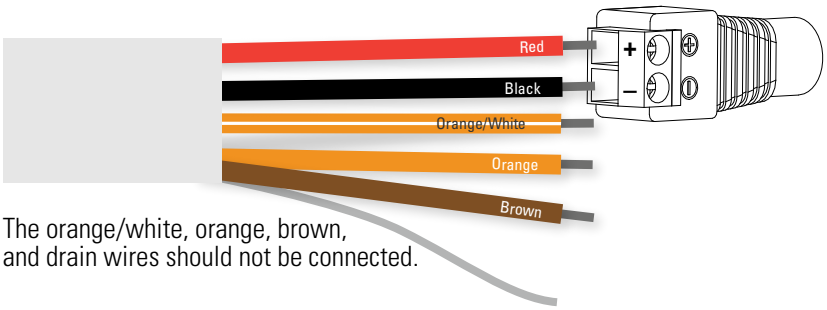
Wiring Guide

Somfy®, Savant, and Screen Innovations

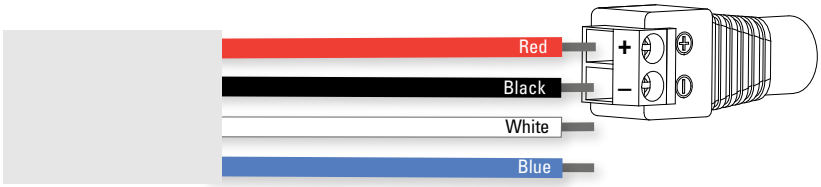


The orange/white, orange, brown, and drain wires should not be connected.

Lutron®

The white and purple wires should not be connected.

Crestron®



The white and blue wires should not be connected.

QMotion®

- Max Wire length of 200ft.
- No daisy-chaining allowed.
- Tinning the wires or the use of crimp-on ferrules is highly recommended.
- Cat5/Cat6 should only be used when the home was already prewired that way and there is no way to change it.

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