# VIVID RGB LIGHTING

**Festo:60** RGB Festoon Strings

## Key Features

- 360° Viewing Angle
- Customizable Spacing
- Easy Hook Mounting Option
- Full-color RGB pixels
- **IP68** Dust- and waterproof
- **24** 24 Month Warranty
- **CERT** RoHS Certified and Built to CE, UL, ETL Standards

## Many Applications

- Architectural Accents
- Concerts and Events
- Decorative Elements
- Retail Interiors
- Light Shows
- Trade Shows
- Themed Environments
- Restaurants
- Holiday Lighting
- Patio Lighting
- Weddings
- Festivals
- Carnivals

## Further Reading

Visit us online for the most up-to-date product information:

**www.VividRGBlighting.com**



### Introducing The Festo:60

Festo:60, by Vivid RGB Lighting, updates the traditional festoon light string with modern color changing LED technology. Pre-programmed or fully controllable with any DMX lighting system, Festo adds a new level of excitement with color, flexibility and energy efficiency.

Designed for indoor and outdoor applications, the 2.4" diameter translucent globes meet a wide range of applications and provide the perfect ambient glow.

Festo:60 strings are easily customizable – you choose the size, you choose the spacing, snap on a Festo:60… and "Presto" let the festivities begin!

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## Introducing The Festo:100

Festo:100, by Vivid RGB Lighting, updates the traditional festoon light string with modern color changing LED technology. Pre-programmed or fully controllable with any DMX lighting system, Festo adds a new level of excitement with color, flexibility and energy efficiency.

Designed for indoor and outdoor applications, the 4" diameter translucent globes meet a wide range of applications and provide the perfect ambient glow.

Festo:100 strings are easily customizable – you choose the size, you choose the spacing, snap on a Festo:100… and "Presto" let the festivities begin!
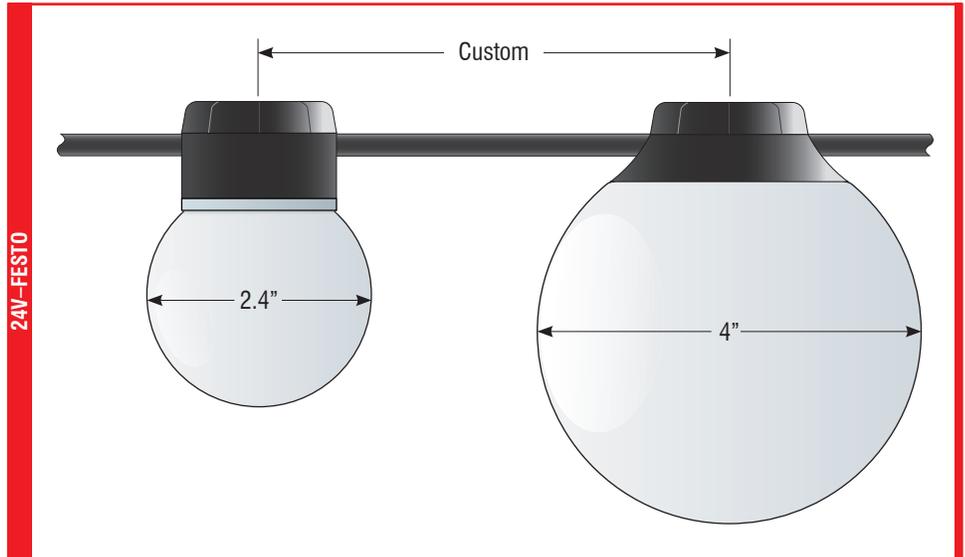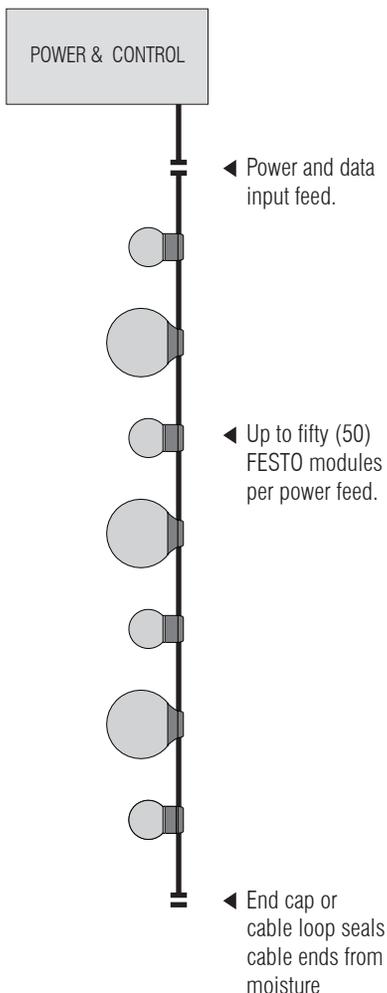
# VIVID RGB LIGHTING

**Festo** RGB Festoon Strings

## Ordering Guide

- ☐ Labeled flat cable
- ☐ Punch Tool
- ☐ Modules:
  - ☐ 2.4" Black Housing
  - ☐ 2.4" White Housing
  - ☐ 4" Black Housing
  - ☐ 4" White Housing
- ☐ Matte Finish
- ☐ Glossy Finish

## System Overview

POWER & CONTROL

◄ Power and data input feed.

◄ Up to fifty (50) FESTO modules per power feed.

◄ End cap or cable loop seals cable ends from moisture

24V–FESTO

Custom

2.4"

4"

## Technical Specifications*

| OUTPUT | LUMEN MAINTENANCE | 25,000+ hours |
|---|---|---|
| | LED CHANNELS | Red, Green, Blue |
| | GRAYSCALE | 256, 8-bit |
| ELECTRICAL | INPUT VOLTAGE | 24V DC |
| | POWER | 1.50 W / FESTO |
| CONTROL | INTERFACE | DMX |
| | CONTROL SYSTEM | Color Mimic / Vivid Pixel Driver or other |
| PHYSICAL | TEMPERATURE RANGES | -20ºC – 50ºC / -4ºF – 122ºF |
| | HUMIDITY | Any |
| SAFETY | ENVIRONMENT | Dry, damp, wet locations; IP66 |

*Due to continuous improvements and design innovations, specifications subject to change without notice.

**Part#**

Size — Finish — Color

FESTO-60-G-B
FESTO-60-G-W
FESTO-60-M-B
FESTO-60-M-W
FESTO-100-M-W
FESTO-100-M-B

**Product Configurations**

2.4" Glossy Globe, Black Body
2.4" Glossy Globe, White Body
2.4" Matte Globe, Black Body
2.4" Matte Globe, White Body
4" Module, Matte Globe, White Body
4" Module, Matte Globe, Black Body

## Typical Wiring Instructions

Input cables connect to controller &
power supply and provide a common
ground between them.

Flat cable connects directly to junction
box for power and control distribution.

Silicone end caps provide a waterproof
termination at the end of each string.

### Festo String Power

Use total watts to determine necessary
power supply capacity.

Maximum power draw is 1.50 W
per pixel at 24 V DC.

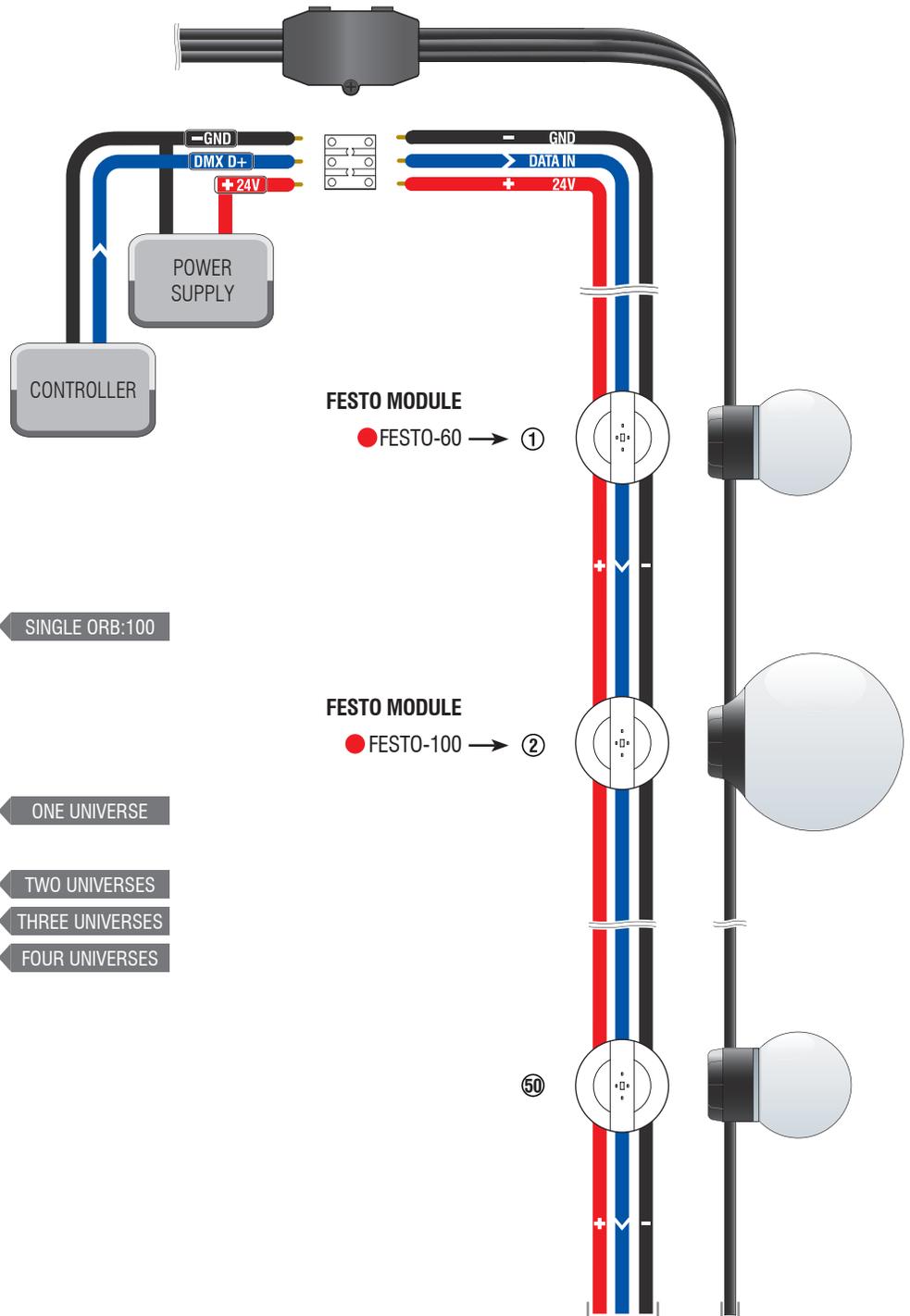| FESTO | AMPS @ 24V | TOTAL WATTS | |
|-------|-----------|-------------|---|
| 1 | .065 A | 1.50 W | SINGLE ORB:100 |
| 12 | .750 A | 18 W | |
| 24 | 1.50 A | 36 W | |
| 48 | 3.00 A | 72 W | |
| 96 | 6.00 A | 144 W | |
| 168 | 10.50 A | 250 W | ONE UNIVERSE |
| 336 | 21.00 A | 500 W | TWO UNIVERSES |
| 504 | 31.50 A | 750 W | THREE UNIVERSES |
| 672 | 42.00 A | 1000 W | FOUR UNIVERSES |

### NOTES

Figures in this chart allow for **5%** headroom.
Typical per-pixel wattage is **1.40 W**.

### IMPORTANT

Keep the power supply as close as possible to the strings
to minimize voltage drop. Excessive voltage drop will
cause color shift and/or intermittent operation.

Due to continuous improvements and design innovations,
specifications subject to change without notice.

GND
DMX D+
+ 24V

POWER
SUPPLY

CONTROLLER

GND
DATA IN
+ 24V

**FESTO MODULE**
● FESTO-60 → ①

**FESTO MODULE**
● FESTO-100 → ②

+ − + −

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# Installation Guide

## Scaled Illustrations

### Step 1: Determine your layout

The cable for the Festo is designed for easy customization of module spacing.  The cable is labeled with a line every three inches to simplify the hole punching process.

Flat 3 Conductor 16AWG

Top View

### Step 2: Punch Hole

Simply line the cable up to the stopper of the specialized hole punch, squeeze, and the hole punch will perforate the cable.

**NOTE**

Ensure cable is fully seated and aligned before punching hole

Align printed spacing with hole punch

Silicone covering ID pins

### Step 3: Add Silicone

Place a small bead of silicone to cover the exposed insulation displacement pins on the bottom of the Festo housing to provide a water resistant seal.
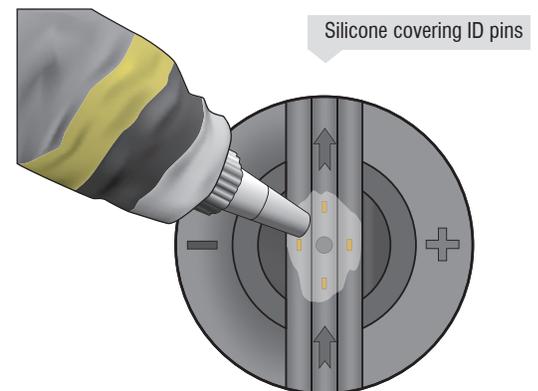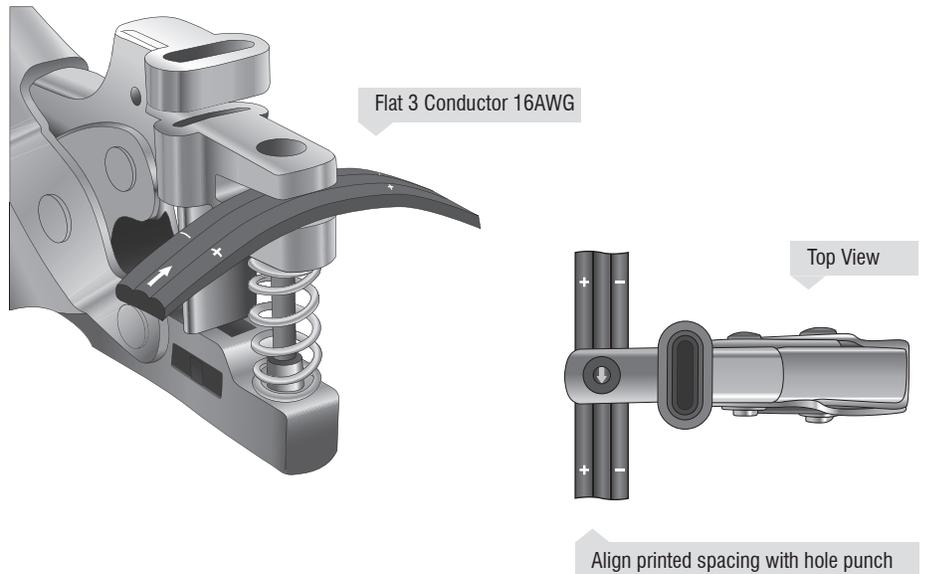
### Tools Required

**FESTO-PUNCH**

**FESTO-KEY**

# VIVID RGB LIGHTING

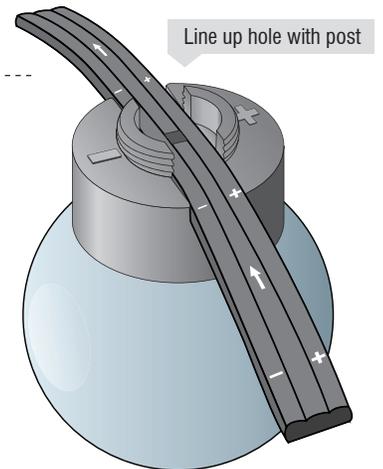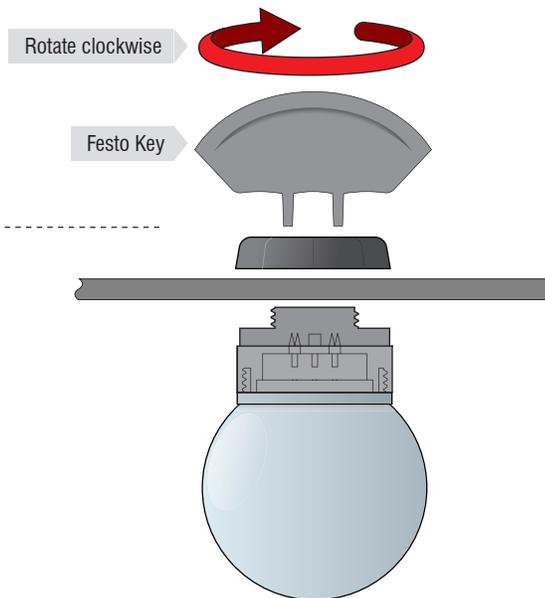**Festo** RGB Festoon Strings

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## Installation Guide

**Scaled Illustrations**

**Step 4: Align Festo**

After perforating the cable, confirm proper orientation of the +/- symbols with the wire. Line up the post on the inside of the Festo housing with the hole and lightly push cable into place.
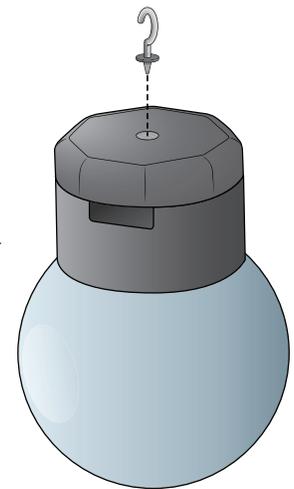
Line up hole with post

Rotate clockwise

Festo Key

**Step 5: Attach Festo**

Attach the cap and hand-tighten. A special tool for further tightening is available but not necessary.
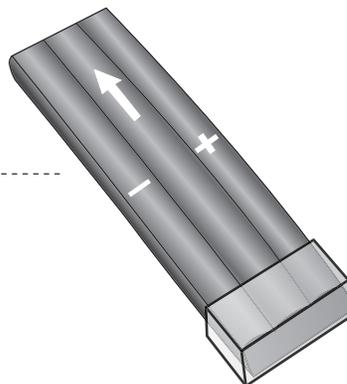
**Step 6: Attach Hook**

An optional hook is available for hanging individual Festo modules and is attached by hand screwing it into the bottom of the housing lid.

**Step 7: End Cap**

A silicone end cap is also available to place on the end of the cable. Simply fill the cap with silicone and attach it at the end of the cable to seal from water.

**NOTE**

Installing a Festo in reverse will not damage the module. However, the unit and all units after, will not work.