

# INSTALLATION INSTRUCTIONS

## DL-FLEX-WETCC-RGB



1. Configure design and layout of the system before attempting to install this product. Do not exceed the maximum operating temperature of 122 degrees Fahrenheit. Do not submerge in water. Do not install in environments which may be submersed in water.

**Note** – For DMX applications refer to the DL-FLEX-WETCC-RGB data sheet for more information.

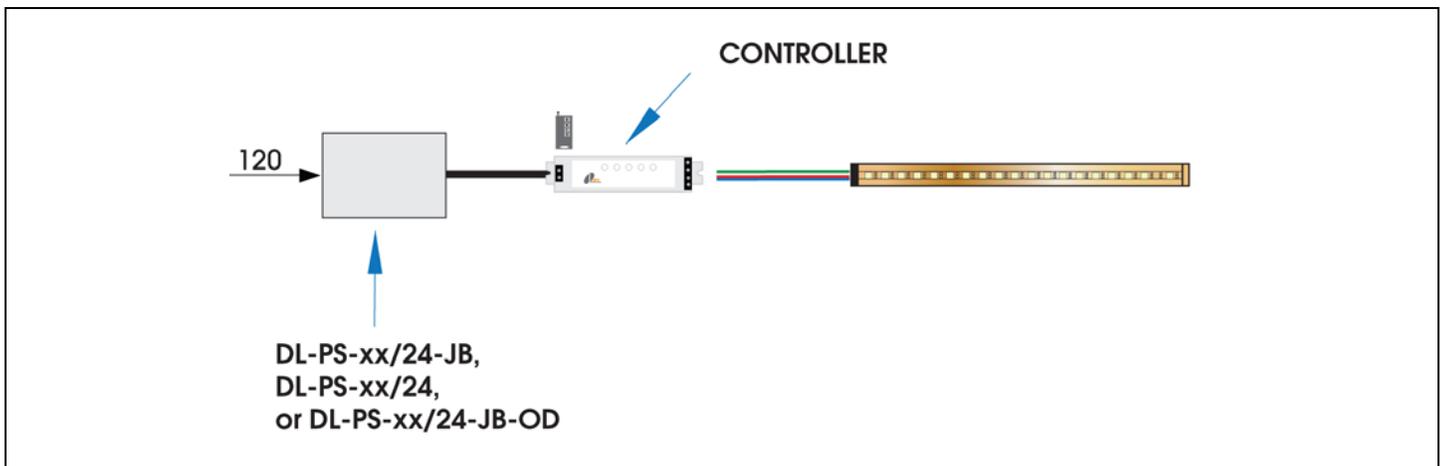
|                   | Max single run length |
|-------------------|-----------------------|
| DL-FLEX-WETCC-RGB | 20 feet               |

**Note: Maximum Run Length is 20 feet.**

For installations exceeding the max run length, additional power connectors may be required. Wire additional power connectors directly to the controller. Ensure the power supply and the controller's power capacity can handle the total load. Refer to the power supply guide found on the DL-FLEX-WETCC-RGB data sheet for more information.

2. **Install the power supply**  
Determine the appropriate location of the power supply or junction box.
3. **Install the controller**  
Determine location of controller. Ensure the controller is within max wiring distance of the power supply and DL-FLEX-WETCC-RGB tape light. Refer to your controller's data sheet for more information.
4. **Assemble DL-FLEX-WETCC-RGB**  
Do not exceed the maximum run length. DL-FLEX-WETCC-RGB cannot be field cut. Custom cutting provided by factory.

5. **Install DL-FLEX-WETCC-RGB**  
**See "Application Techniques for Adhesive Tape" below.**  
Remove backing to expose adhesive. Carefully press DL-FLEX-WETCC-RGB to the mounting surface. Avoid using excessive force. Avoid pinching or creating a sharp 90 deg bend. Avoid applying pressure directly on LEDs.
- 5a. **Optional** – For additional support use DL-FLEX2-MC-12  
Place DL-FLEX2-MC-12 over DL-FLEX tape and screw in to place. Recommend 3 clips per foot with clips placed between LEDs.  
**Note:** (2) DL-FLEX2-MC-12 mounting clips included with every run, recommended for use at the start and end of then run.
- 5b. **Optional** – Install Aluminum Channel (DL-FLEX-OD-CH6, field cuttable). Clean Channel. Remove backing to expose adhesive. Carefully press DL-FLEX-WETCC-RGB into the aluminum channel. Avoid using excessive force (see #4). Install the mounting clips to the mounting surface. Recommended use of 3 clip per 12 inches. Insert aluminum track into the clips. For additional support, recommended use of 2 Channel Clasp (DL-FLEX-OD-CH6-CLASP) per 12 inches of channel. Channel Clasp is required for downlighting applications.
6. **Connect Power Supply**  
Connect the wires to your controller. Ensure the wires are connected correctly by observing the polarity (refer to the controller data sheet for more information). Connect the appropriate power supply to your controller.  
**Note 1:** The power supply may need to be installed in an outdoor box (by others).  
**Note 2:** Any unconnected ends must be made waterproof by screwing on the DL-FLEX-OD-EC endcap
7. **Run System**  
Turn the power on. Check all fixtures to make sure they are running properly. If fixtures are not running properly, check all connections and retighten.



# INSTALLATION INSTRUCTIONS

## DL-FLEX-WETCC-RGB



### SAVE THESE INSTRUCTIONS

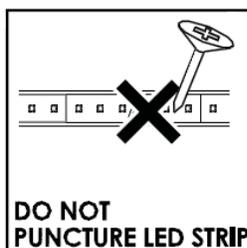
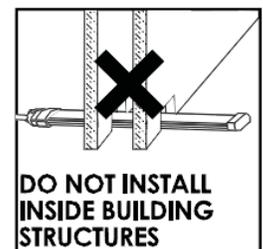
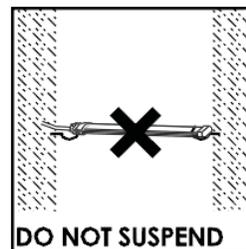
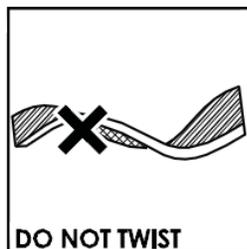
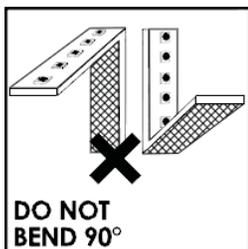
### IMPORTANT SAFETY INSTRUCTIONS

Please read carefully before using product. Protect yourself and others by observing all safety information, warnings and cautions. Failure to comply with instructions could result in personal injury and/or damage to product or property.  
*Please retain instruction sheet for future reference.*

When installing or using this product, basic safety precautions should always be followed including the following:

1. Read all instructions before attempting to install this product.
2. Ensure main power is off before installing or wiring this product.
3. Ensure correct voltage is being used for this product.
4. Do not use if there is visible damage to the fixture or cord insulation. Inspect periodically.
5. Do not install in direct sunlight to avoid damaging the phosphor on the LEDs.
6. Do not submerge in any liquid or use the product where liquid might pool.
7. Do not install near areas with exposure to chlorinated water.
8. Disconnect electrical power before adding to or changing the configuration of this product.
9. Fixtures must be installed by a qualified/certified electrician in accordance with all national and local electrical and construction codes and regulations.

## CAUTION



VIOLATING ANY OF THE ABOVE **WILL VOID WARRANTY**

# INSTALLATION INSTRUCTIONS

## DL-FLEX-WETCC-RGB



### Application Techniques for Adhesive Tape

1. **Clean:** Most substrates are best prepared by cleaning with a 50:50 mixture of isopropyl alcohol (IPA\*) and water prior to applying 3M™ VHB™ Tapes
  - a. Exceptions to the general procedure that may require additional surface preparation include:
    - i. Heavy Oils: A degreaser or solvent-based cleaner may be required to remove heavy oil or grease from a surface and should be followed by cleaning with IPA/water.
    - ii. Abrasion: Abrading a surface, followed by cleaning with IPA/water, can remove heavy dirt or oxidation and can increase surface area to improve adhesion.
    - iii. Adhesion Promoters: Priming a surface can significantly improve initial and ultimate adhesion to many materials such as plastics and paints.
    - iv. Porous surfaces: Most porous and fibered materials such as wood, particleboard, concrete, etc. need to be sealed to provide a unified surface.
    - v. Unique Materials: Special surface preparation may be needed for glass and glass-like materials, copper and copper containing metals, and plastics or rubber that contain components that migrate (e.g. plasticizers).
  - b. Refer to 3M Technical Bulletin “Surface Preparation for 3M VHB Tape Applications” for additional details and suggestions (70-0704-8701-5)
  - c. \*Note: These cleaner solutions contain greater than 250 g/l of volatile organic compounds (VOC). Please consult your local Air Quality Regulations to be sure the cleaner is compliant. When using solvents, be sure to follow the manufacturer's precautions and directions for use when handling such materials.
2. **Pressure:** Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure develops better adhesive contact and helps improve bond strength. Typically, good surface contact can be attained by applying enough pressure to insure that the tape experiences approximately 15 psi (100kPa) pressure. Either a roller or platen pressure can be used. Note that rigid surfaces may require 2 or 3 times that much pressure to make the tape experience 15 psi.
3. **Temperature:** Ideal application temperature range is 70 deg F to 100 deg F (21 deg C to 38 deg C). Pressure sensitive adhesives use viscous flow to achieve substrate contact area. Minimum suggested application temperature is 50 deg F (10 deg C). Note: Initial tape application to surfaces at temperatures below the suggested minimum is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory. To obtain good performance it is important to ensure that the surfaces are dry and free of condensed moisture.
4. **Time:** After application, the bond strength will increase as the adhesive flows onto the surface (also referred to as “wet out”). At room temperature approximately 50% of the ultimate bond strength will be achieved after 20 mins, 90% after 24 hours and 100% after 72 hours. This flow is faster at higher temperatures and slower at lower temperatures. Ultimate bond strength can be achieved more quickly (and in some cases bond strength can be increased) by exposure of the bond to elevated temperatures (e.g. 150 deg F [66 deg C] for 1 hour). This can provide better adhesive wet out onto the substrates. Abrasion of the surfaces or the use of primers/adhesion promoters can also have the effect of increasing bond strength and achieving ultimate bond strength more quickly.