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CAUTION LABELS





A CAUTION

Indicates a hazardous situation or unsafe practice which, if not avoided, could result in injury or damage to components.



WARNING

Indicates a possible impending danger. Failure to follow this instruction can result in death or serious injury.



DANGER

Indicates imminent danger. Failure to follow this instruction could result in death or serious injury.

TEMPERATURE & BENDING DIAMETER



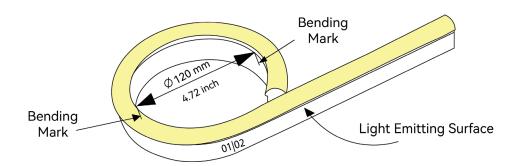
INSTALLATION TEMPERATURE CHART

	PVC	SILICONE
Ambient Installation Temperature	32° ~ 131°F (0°~ 55°C)	-40° ~ 149°F (-40°~ 65°C)
Maximum Mounting Surface Temperature*	140°F (60°C)	185°F (85°C)

^{*}Temperatures change based on specific fixture, please check specification for exact temps.

MINIMUM BENDING DIAMETER

The illustration below provides an example of the minimum bending diameter for the S270 product between each set of printed bending marks.



PROFILES AND DIMENSIONS



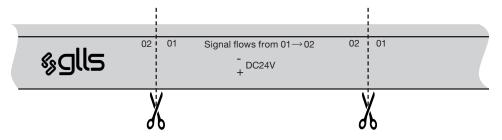
PRODUCT LINE	FIXTURE PROFILE	DIMENSION (W X H)	BENDING DIAMETER
Contour	0.71 0.35in	0.35 x 0.71in (9 x 18mm)	3.54in (90mm)
S160	0.45in	0.45 x 0.83in (11.5 x 21mm)	4.72in (120mm)
S270	0.45 in	0.45 x 1.14in (11.5 x 29mm)	4.72in (120mm)
Light Strip	0.24 in 0.61in	0.61 x 0.24in (15.5 x 6mm)	1.97in (50mm)
Light Strip XL	0.79in	0.79 x 0.31in (20 x 8mm)	3.94in (100mm)
Wave Mini	0.39in	0.39 x 0.39in (10 x 10mm)	3.94in (100mm)
Wave	0.63in	0.63 x 0.67in (16 x 17mm)	11.81in (300mm)
Wave 320	0.63in	0.63 x 0.67in (16 x 17mm)	11.81in (300mm)
Wave XL	TOP SIDE BEND BEND 0.87in 0.87in 0.87in	Top Bend 0.87 x 0.75in (22 x 19mm) Side Bend 0.87 x 0.87in (22 x 19mm)	11.81in (300mm)
C12	0.47in	0.47 x 0.47in (12 x 12mm)	3.94in (100mm)
Orbit	0.67in	0.63 x 0.67in (16 x 17mm)	Top & Side Bend 11.81in (300mm)
OrbitGX	0.988 3 1.38in	1.38 x 0.98in (35 x 25mm)	Top Bend 15.75in (400mm) Side Bend 31.5in (800mm)
OrbitLS	0.47 n	0.79 x 0.47in (20 x 12mm)	Top & Side Bend 47.24in (1200mm)

ORIENTATION



CUTTINIG UNITS

When installing connectors onto Vivid Linear Flex, it is crucial to correctly orientate the cutting unit. Each cutting unit has an "01" end and an "02" end, which are clearly marked at every cut point.



BENDING DIRECTIONS

Vivid Linear Flex comes in three bending profiles: Side, Top and Multi Bending. In order to avoid damaging the circuit board and the LEDs, you must only bend the fixture in its specified direction. You can find the bending direction of a fixture by looking at the printing marks on the fixture body. Failure to follow the proper bending direction or over-bending will damage the product and void the product warranty.





TOP BENDING

MIN BENDING DIAMETER



LIGHT SURFACE



SIDE BENDING

A CAUTION

Do not twist, strike, or pull on the fixture. Do not bend the first cutting unit of the fixture near the connector. Repeated bending and unbending can weaken the PCB. Damage to components can result.





THERMAL FLUCTUATION

Defined in the fixtures OFF state

Fixtures have an Expansion and Contraction variance of up to:

PVC - 0.5%

Silicone - 0.05%

FIXTURE PRECAUTIONS





Turn off power during installation and avoid covering the light fixture while lit.



Only qualified personnel maintenance work.



Use appropriate power cables and converters to prevent flickering.



Use only recommended Power Unit.



Cut the Vivid Linear Flex Light only at the identification mark using special cutting tools.



Do not use the product if silicone casing material is damaged.



Test connections with a multi-meter



Avoid installing in small, confined spaces warmer than -40°F ~131°F (-40°C ~ 55°C)



Install the product out of reach of children.



Do not exceed specified voltage. Failure to do so will result in LED life degradation.



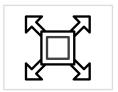
Replace the entire fixture when the light source reaches the end of life.



Assemble with proper ventilation and avoid assembly on vibrating surfaces.



Use suitable fixing materials for installation.



Allow space for expansion in aluminum channels.



Preheat Vivid Linear Flex Light before use in low temperatures and unwind from the reel before assembly.



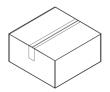
Do not over bend & avoid bending at the first unit of light and connector. Damage to components can result.

UNPACKING THE FIXTURE KIT



STEP 1:

Place box on a sturdy, level surface.



STEP 3:

Remove the carton out of the box.



STEP 5:

Put on the gloves in the tray.



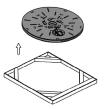
STEP 2:

Cut the tape and open the box.



STEP 4:

Lift the disc out of the frame.



STEP 6:

Remove the fixture from the disc.



A CAUTION

Incorrect unpacking can fracture the PCB. Damage to components can result.

UNPACKING THE REEL



STEP 1:

Place box on a sturdy, level surface.



STEP 3:

Assemble the support tubing with coupling.



STEP 5:

Set the spool assembly into the box with the fixture rolling off the top of the spool.



A CAUTION

Do not roll the fixture off the bottom of the spool.

STEP 2:

Lift the spool out of the box.



STEP 4:

Insert the support tubing into the center of the spool.



STEP 6:

Carefully guide the fixture straight outward off the spool.



A CAUTION

Do not bend or twist the fixture. Two people should unroll the reel to avoid pulling on the fixture and damaging the pcb.

LIGHTING TEST



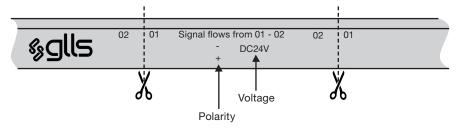
STEP 1: CHECK WORKING VOLTAGE

Inspect the light when it arrives, then connect it using the correct voltage only. Using a higher voltage may damage the light.

STEP 2: CONFIRM "+ / -" AND SIGNAL WIRES

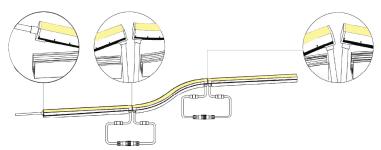
For pixel products, confirm polarity and signal direction using the markings on the cable.

- Do not power the light if the yellow/green signal wires are incorrectly connected.
- If needed, separate the signal wires as shown before connecting.
- Make sure the signal direction (1 ->) matches the wiring, or the signal will not transmit.



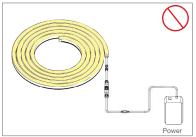
STEP 3: CONNECT SPI LIGHTS IN SERIES PROPERLY

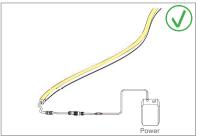
When connecting multiple SPI pixel lights, connect them in low-to-high order (follow the numbered sequence) to ensure proper signal transmission.



STEP 4: LIGHTING (TEST SAFELY)

Do not power the light while it is coiled or left in the package for more than 30 minutes, this can cause overheating and damage. If you need to run an extended test, fully uncoil the light and lay it out to allow heat to dissipate.







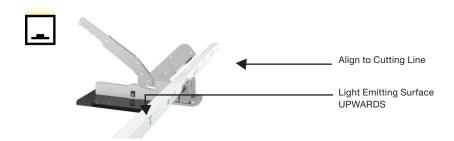
FIXTURE CUTTING



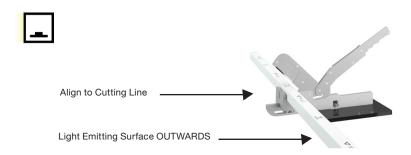
Only use professional tools for cutting fixtures



TO PROPERLY CUT TOP BENDING FIXTURES:



TO PROPERLY CUT SIDE BENDING FIXTURES:



Verify the cut surface is smooth and vertical to ensure proper connection.









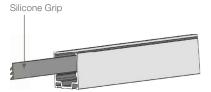


CHANNEL CUTTING

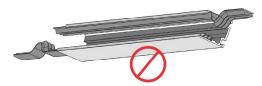


SILICONE GRIP FIXTURE PRE-CUTTING

- 1. Do not process the profile (finishing, coating, etc.) without appropriate protection.
- 2. If any processing is required, keep the profile clean immediately after processing.
- 3. For profiles that include silicone grip, remove the tape before any high-temperature processing to prevent deformation. If removal in advance is not possible, consult the manufacturer for guidance.



Deformed by high temperature



ALUMINUM FIXTURE

SILICONE GRIP ALUMINUM FIXTURE



Ensure the cut cross-section is smooth and free of burrs. Burrs can damage the light housing and may lead to water ingress.





For profiles that use silicone grip: if any silicone grip drops off after cutting, reattach it to the profile using a small amount of adhesive on the back side. A contact area of approximately 0.20–0.31 in (5–8 mm) diameter is sufficient. When reinstalling, ensure the round head on the edge is oriented downward.

CONNECTORS



Choose a suitable IP rated connector based on the installation environment:





DIY Swivel







PVC Seamless (IP65 for Wave Mini)

DIY Click (IP65 for Wave Mini)

DIY Snap













PVC Submersible (IP65 for Wave Mini)

Silicone Submersible

Silicone Seamless (IP67 for Wave Mini)

DIY Submersible

Screw Lock



A CAUTION

Do not apply glue to the wiring connection. Damage to components can result.





A CAUTION

Do not pull on wiring. Connection damage and water intrusion can result.





DIY SWIVEL CONNECTOR



End Exit

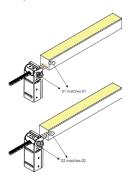
STEP 1:

For Top-bending fixtures, insert the inducer into the back of PCB and move gently to create a small cavity. For side bend fixtures, insert the inducer into the back of PCB and gently move vertically to create a small cavity.



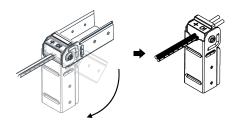
STEP 3:

For both top and side bending fixtures, insert the pins of the feed connector into the space created by the inducer at the back of the PCB and push them to the end.



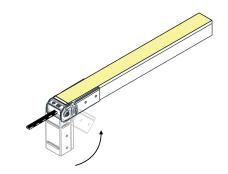
STEP 2:

Rotate the U-shaped steel plate downwards to fully expose the pins of the feed connector.



STEP 4:

Rotate back till the light seats into the steel plate tightly.



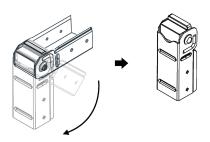
DIY SWIVEL CONNECTOR



End Cap

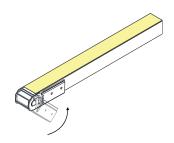
STEP 1:

Rotate the U steel plate downwards.



STEP 2:

Align the fixture end with the end cap and rotate the steel plate back until the light is securely seated.



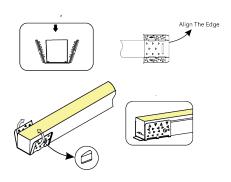
DIY CLICK CONNECTOR



End Exit

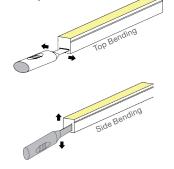
STEP 1:

Wrap the fixture tightly by anti-skidding clip.



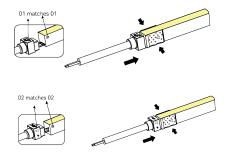
STEP 2:

For top bending fixtures, insert the inducer into the back of the PCB and slide it left and right. For side bending fixtures, insert the inducer into the back of the PCB and move it vertically.



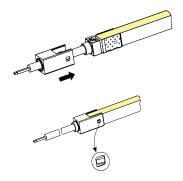
STEP 3:

For both top and side bending fixtures, insert the pins of the feed connector into the space created by the inducer at the back of the PCB and push them to the end.



STEP 4:

Slide the metal cover until it makes a "click" sound indicating that it is securely in place.



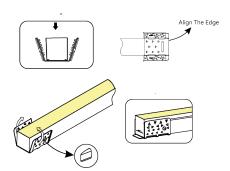
DIY CLICK CONNECTOR



End Cap

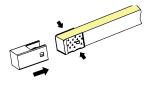
STEP 1:

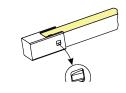
Wrap the fixture tightly by anti-skidding clip.



STEP 2:

Slide the metal cover until it makes a "click" sound.





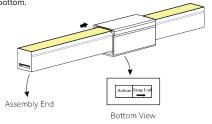
DIY SNAP CONNECTOR



End Exit

STEP 1:

Place PC cover according to the direction marked at the bottom.



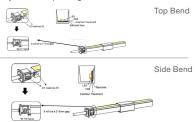
STEP 2:

For top bending fixtures, insert the inducer into the back of the PCB and move it gently to create a small cavity. For side bending fixtures, insert the inducer into the back of the PCB and move it up and down gently to create a small cavity.



STEP 3:

For both top bending and side bending fixtures, insert the pins of the feed connector into the space created by the inducer, ensuring they are kept 2 to 5 mm away from the assembly end while pushing forward.



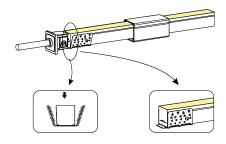
STEP 4:

Unfold the anti-skidding clip approximately 20 degrees on both sides.



STEP 5:

Wrap the fixture tightly with the anti-skidding clip, ensuring the brim is facing outwards and the sides are aligned.



STEP 6:

Align the feed connector and the anti-skidding clip with the notches of the U-steel plate. Carefully fit them into place until they reach the bottom simultaneously.



STEP 7:

Slide the PC cover back until you hear a "click" sound, indicating that it is securely in place.





DIY SNAP CONNECTOR



End Cap

STEP 1:

Place PC cover according to the direction marked at the bottom.

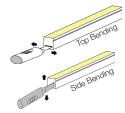
Bottom Scap End

Assembly End

Bottom View

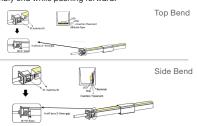
STEP 2:

For top bending fixtures, insert the inducer into the back of the PCB and move it gently to create a small cavity. For side bending fixtures, insert the inducer into the back of the PCB and move it up and down gently to create a small cavity.



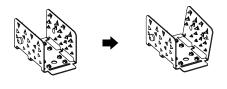
STEP 3:

For both top bending and side bending fixtures, insert the pins of the feed connector into the space created by the inducer, ensuring they are kept 2 to 5 mm away from the assembly end while pushing forward.



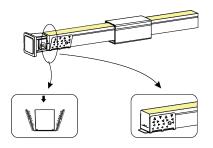
STEP 4:

Unfold the anti-skidding clip approximately 20 degrees on both sides.



STEP 5:

Wrap the fixture tightly with the anti-skidding clip, ensuring the brim is facing outwards and the sides are aligned.



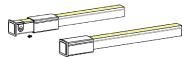
STEP 6:

Align the feed connector and the anti-skidding clip with the notches of the U-steel plate. Carefully fit them into place until they reach the bottom simultaneously.



STEP 7:

Slide the PC cover back until you hear a "click" sound, indicating that it is securely in place.





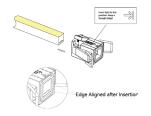
DIY SUBMERSIBLE CONNECTOR



End Exit

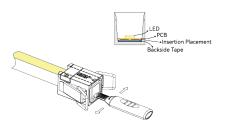
STEP 1:

Insert the fixture into the steel sleeve, aligning it with the mark at the top of the sleeve. Ensure that both the emitting surface and the mark are facing upwards.



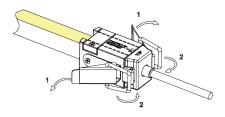
STEP 3:

Insert the inducer into the back of PCB and gently move it left and right to create a small cavity.



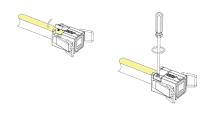
STEP 5:

Pull up the levers of the base plate, then swing the bail loops to engage with the catch plate.



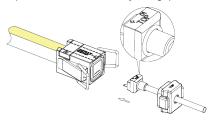
STEP 2:

Close the retaining plate and secure it by tightening the screw.



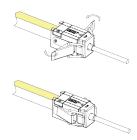
STEP 4:

Insert the pins of the front connector into the cavity that the inducer created, and then push the steel cover to the end in the same direction. Ensure that the surface of all components marked "TOP" is always facing upwards.



STEP 6:

Clamp down on the levers to secure the latches together.



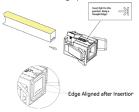
DIY SUBMERSIBLE CONNECTOR



End Cap

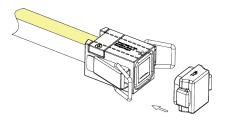
STEP 1:

Insert the fixture into the steel sleeve, aligning it with the mark at the top of the sleeve. Ensure that both the emitting surface and the mark are facing upwards.



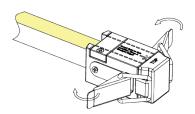
STEP 3:

Seal the fixture end with the steel cover. Ensure the "TOP" facing upwards.



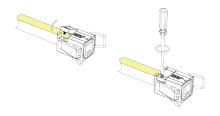
STEP 5:

Clamp down on the levers to draw the latches together.



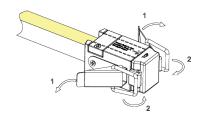
STEP 2:

Close the retaining plate and secure it by tightening the screw.



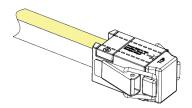
STEP 4:

Pull up the levers of the base plate, then swing the bail loops to engage with the catch plate.



STEP 6:

Below shows an image of the final outcome.

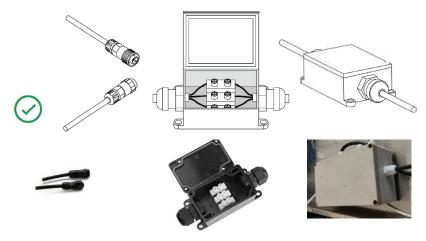


JOINTS



Use waterproof junction boxes and connectors for all cable joints. For underwater applications, use IP68-rated connectors and keep all cable joints out of the water whenever possible.





A CAUTION

Electrical tape will not completely prevent water intrusion. Damage to components can result.







Do not install improperly cut fixtures. Water intrusion can result.





MOUNTING PRECAUTIONS





Wear Personal Protective Equipment (PPE) when handling the mounting profile. Sharp metal corners can cause serious injury.



Remove the silicone grip from mounting profile before exposing to high temperatures. Damage to components can result.



Do not submerge ferrules in water during underwater applications. Do not remove ferrules to avoid damage to light & ensure warranty remains intact.



Do not install fixtures with damaged lead wires or accessories. Water ingression can result.



Do not install bent mounting profile.



When cutting the profile keep clean of debris and burrs to avoid damage to the light fixture.



Screws must be installed straight to avoid damage to the light.



Avoid angular misalignment



Avoid parallel vertical misalignment



Avoid parallel horizontal misalignment



Repeated installation and removal can weaken the PCB. Two people are required for any fixture install longer then 6.5ft (2m). Damage to components can result.



Do not join mounting profile in the same location as the wall joints. The expansion and contraction of the building surface will pull the lighting connection apart. Damage to components can result.



Do not allow light fixture to hang or twist while installing into mounting profile. Improper handling could lead to damage to the internal PCB of the fixture.



Do not pull the connector wire forcefully from the fixture. Water ingression can result.



We recommend leaving 2.36in (60mm) of connector wire in its natural state. Bending too close to the fixture can result in damage.



MOUNTING HARDWARE

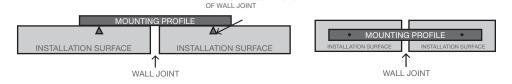


General Installation Instructions

SOLUTION 1:

Ensure the mounting profile spans the seam, and install screws on both sides of the seam.

SIDE VIEW TOP VIEW

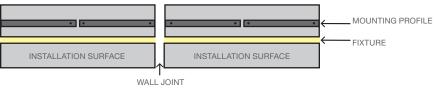


FIXING SCREWS ON EACH SIDE

SOLUTION 2:

Ensure the light run aligns with the building segment, and terminate the mounting profile at the seam.

TOP VIEW



STEP 1:

Allow for a 0.25in (5mm) gap where mounting profile joins for expansion and contraction.

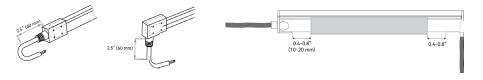


Only join mounting profile at an angle if the fixtures can also be joined at an angle.





Leave the first 2.5in (60 mm) of the lead wire in its natural position. Leave 0.4 - 0.8in (10 - 20 mm) distance between the connector and mounting hardware to allow for expansion and contraction on of the fixture as it heats and cools.



MOUNTING HARDWARE



General Installation Instructions

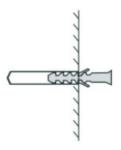
STEP 3:

To curve fixtures, leave enough room for the channels and clips. It is suggested that the bendable channel be used in these instances.



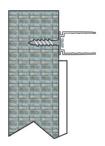
STEP 4:

Install anchors, if necessary, to create a solid mounting surface to attach screws.



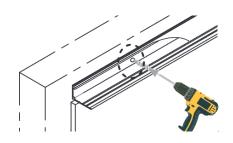
STEP 5:

Ensure screws are installed perpendicular and in-line with or lower than the base of aluminum profile.



STEP 6:

Install screws into all the mounting profile holes working down the entire track until everything is secured.



▲ CAUTION

Do not join mounting hardware in the same location as the wall joints. The expansion and contraction of the building surface will pull the lighting connection apart. Damage to components can result.



Ensure a continuous section of a fixture goes across all mounting hardware joint locations. Damage to components can result.







MOUNTING AND DEMOUNTING TOOLS





A CAUTION

If it is too hard to install the light into the mounting profile, do not force. Contact us immediately.

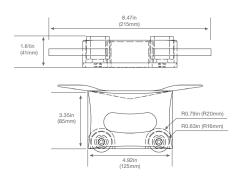
▲ CAUTION

It's not recommended to install the light repeatedly, otherwise the light inside may be damaged.

NOTE: Ensure that the light body is not grazed or scraped during installation, as any damage to the surface can puncture the light housing and result in water ingression.

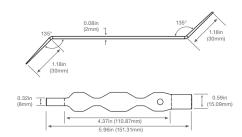
MOUNTING TOOL





DEMOUNTING TOOL





FIXTURE INSTALLATION



OPTION 1: APPLICABLE TO ALL FIXTURES

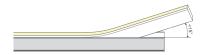
STEP 1:

Ensure that is light is properly oriented and installed in a vertical position.



STEP 3:

To avoid potential damage to the PCB inside the fixture, ensure that the angle between the light and the profile does not exceed 15°.



STEP 2:

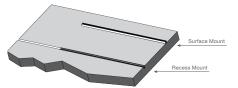
The prevent damage to the internal electronic components, apply pressure to the light using the palm of your hand rather than your fingers when inserting it into the profile.



OPTION 2: APPLICABLE TO WAVE, S160, WAVE MINI, WAVE XL

STEP 1:

Ensure that is light is properly oriented and installed in a vertical position.



STEP 2:

Palm press about 20cm of the light into the profile.



STEP 3:

Roll the mounting roller to gently press the rest of the light into the profile. Make sure the light is vertical to the profile in the process and level with it after installation





FIXTURE REMOVAL



OPTION 1: APPLICABLE TO ALL FIXTURES

STEP 1:

Prepare a screwdriver and position it at the base of the light fixture.



STEP 3:

When detaching the light, firmly grip both ends and steadily remove it along the profile, maintaining a controlled and deliberate motion. Ensure that the angle between the light and the profile does not exceed 15°, as this could lead to harm to the internal PCB.

STEP 2:

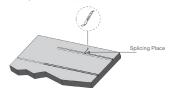
Gently pry the screwdriver upwards, carefully disengaging the light from its fixture. Ensure that the angle between the light and the profile does not exceed 15°.



OPTION 2: APPLICABLE TO WAVE, S160, S270, WAVE MINI, WAVE XL

STEP 1:

Start with one end of the light. Use the Z lever to gently unclench the light from the profile.



STEP 2:

Use your hand to gently unclench 20cm of the light from the profile.



STEP 3:

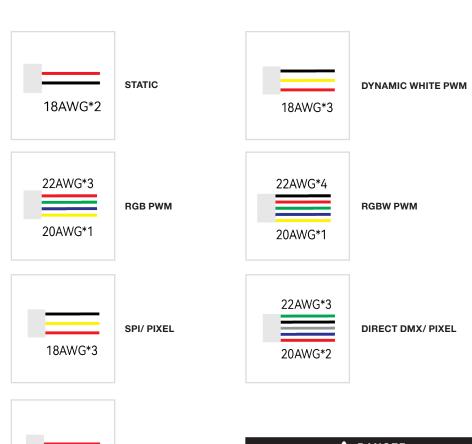
Insert the demounting glider to the bottom of light and glide along the profile to unclench the entire light. Do NOT twist or overbend the light in the process.





WIRING DIAGRAMS





DIM TO WARM

▲ DANGER

Follow GLLS-approved wiring diagrams and layouts that are specifically drawn for the job site to install the fixtures, power supplies, and other components properly. Failure to follow this instruction could result in death or serious injury.

18AWG*2

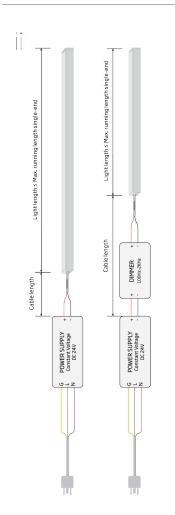
29

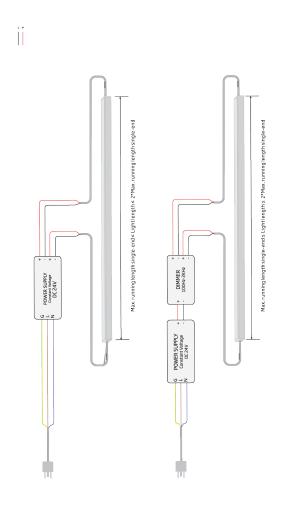
STATIC WIRING DIAGRAM





SINGLE-END FEED



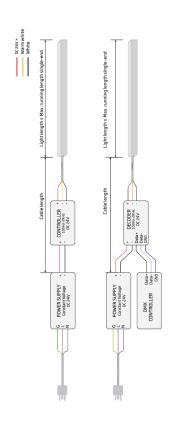


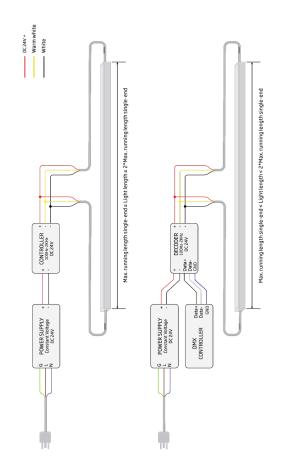
TUNABLE WHITE PWM WIRING DIAGRAM





SINGLE-END FEED



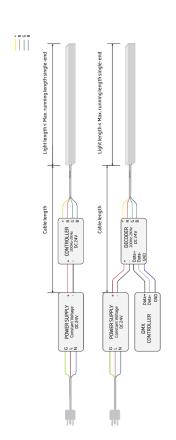


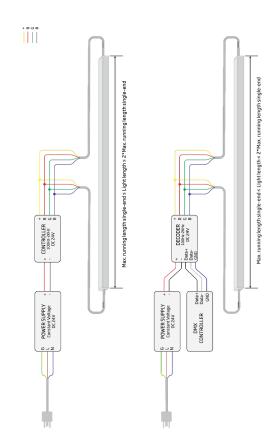
RGB PWM WIRING DIAGRAM





SINGLE-END FEED





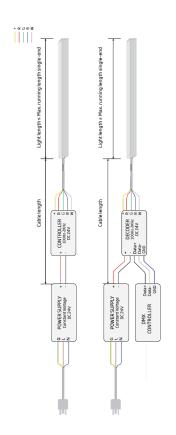
RGBW PWM WIRING DIAGRAM

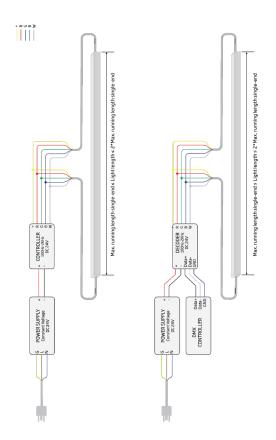




SINGLE-END FEED

DOUBLE-END FEED





Ensure the polarity is correct to both ends. Reverse polarity can result in short circuits.

The use of two power supplies feeding both ends of the lights is not recommended. If either power supply fails, overloading and overheating can occur.

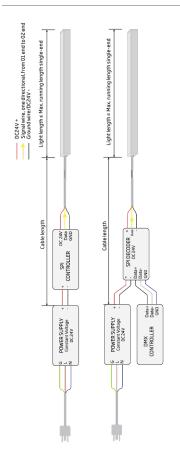
SPI/ PIXEL WIRING DIAGRAM

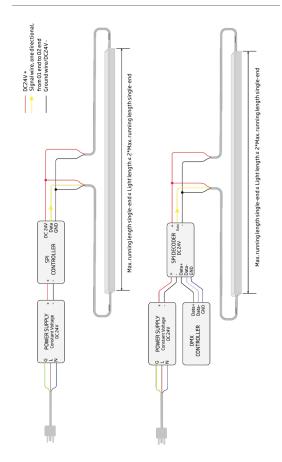




SINGLE-END FEED

DOUBLE-END FEED





Ensure the polarity is correct to both ends. Reverse polarity can result in short circuits.

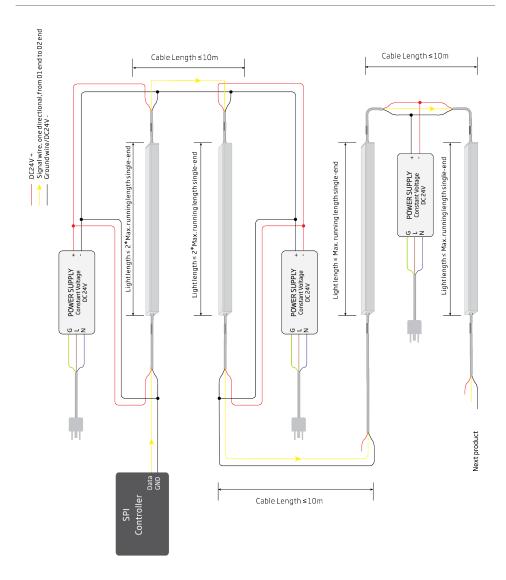
The use of two power supplies feeding both ends of the lights is not recommended. If either power supply fails, overloading and overheating can occur.

SPI/ PIXEL WIRING DIAGRAM





SYSTEM

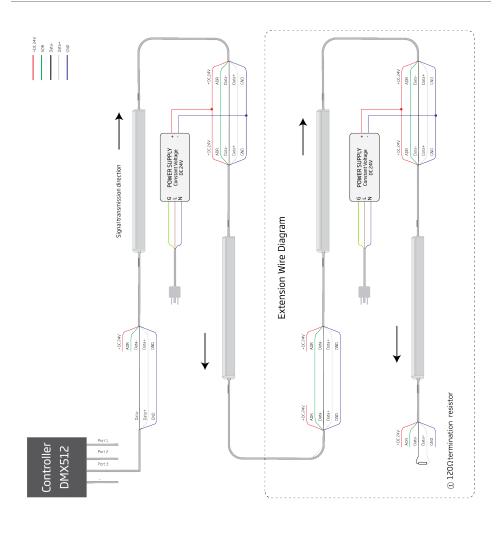


DIRECT DMX/ PIXEL WIRING DIAGRAM





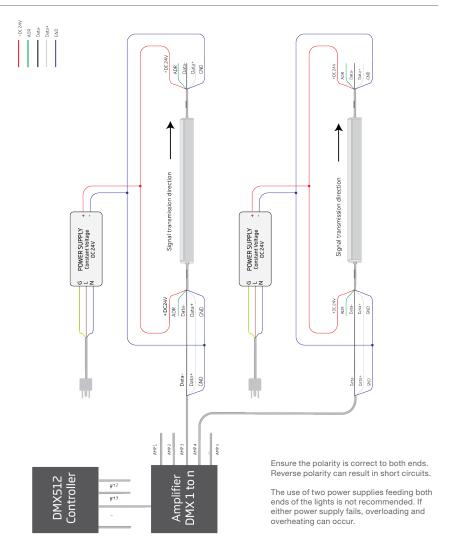
SINGLE-END FEED



DIRECT DMX/ PIXEL WIRING DIAGRAM





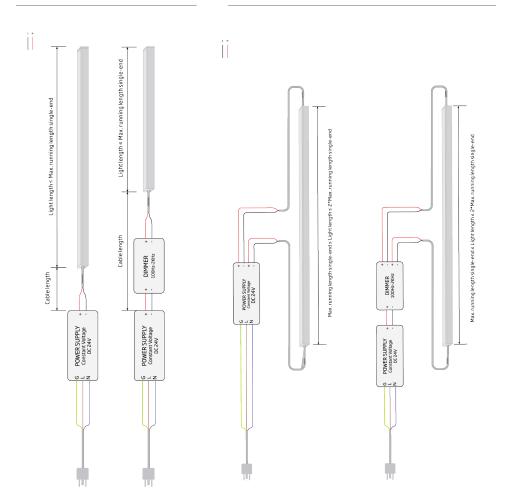


DIM TO WARM WIRING DIAGRAM

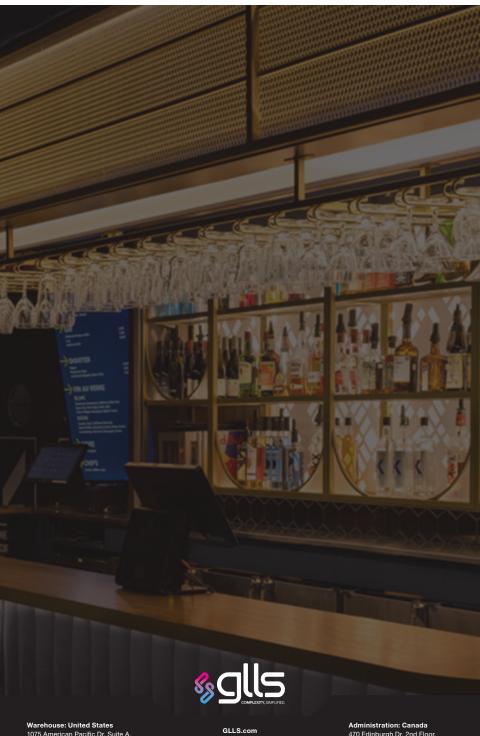




SINGLE-END FEED







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