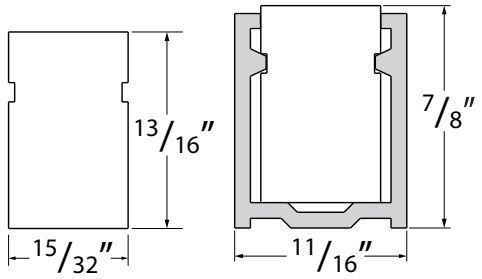
Profiles:



TRACE™ Horizontal

TRACE™ is an indoor/outdoor low voltage lighting system used primarily for direct or indirect lighting designs.

Please verify the contents of the packages!

Please read instructions entirely before starting installation

Be sure power is turned off before installing the system

Call Tivoli, LLC tech support with questions

Caution: TRACE™ RGB is designed to work with listed Class 2 24V DC transformers only. Use of any other power source will cause damage, shorten the life of the fixture and will void the warranty.

Consult any and all applicable local and national codes for installation.

Do not conceal or extend exposed conductors through a building wall as per local electrical code.

Warning: With any luminaire for any application, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injuries. This lighting system should be installed by a certified professional.

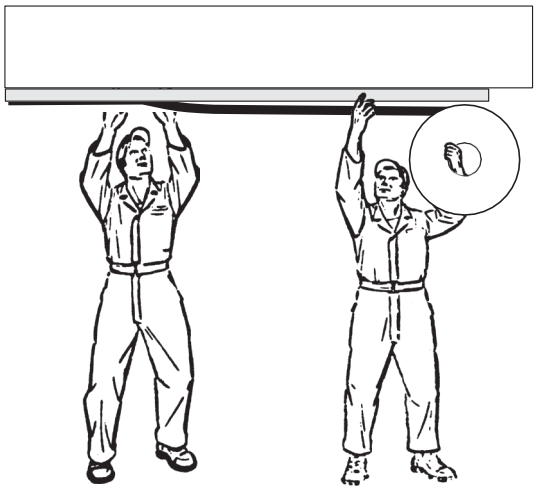
WARNINGS

IP67 DIMMABLE c UL us LISTED

TRACE™ RGB MAY BE EASILY DAMAGED! The reliability of the product can only be ensured if these warnings and cautions are complied with faithfully. Keep these instructions for future maintenance work.

WARNING! Risk of product damage.
Longer runs of Trace™ lighting strands must be installed by at least two people.

IMPORTANT! The Trace™ luminaire must not be allowed to bend or hang down. That way, the bending limit will not be inadvertently exceeded, resulting in product damage.

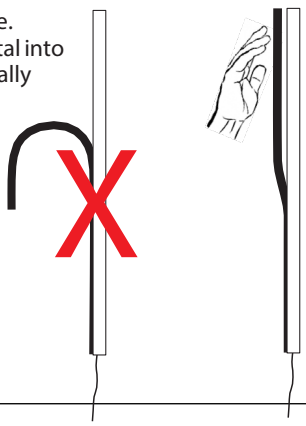


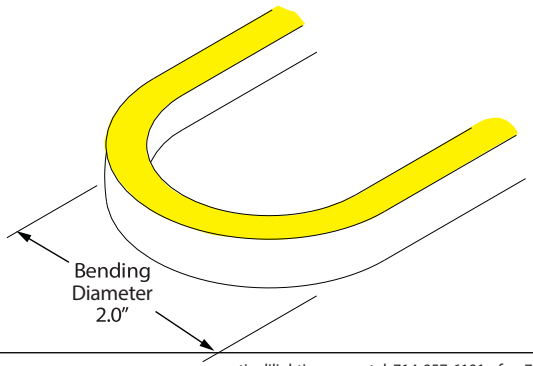
Keep Trace™ from twisting or bending in the wrong direction.
Two person installation.

Warning! Risk of product damage.

Trace™ RGB Horizontal must not be bent at less than 2.0" diameter or damage will result. Do not allow Trace™ to twist or bend in the wrong direction.

WARNING! Risk of Damage.
Insert Trace™ RGB Horizontal into channel evenly and gradually to keep twisting and bending to a minimum.





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Trace™ Horizontal
Do not allow to twist or bend in the wrong direction.

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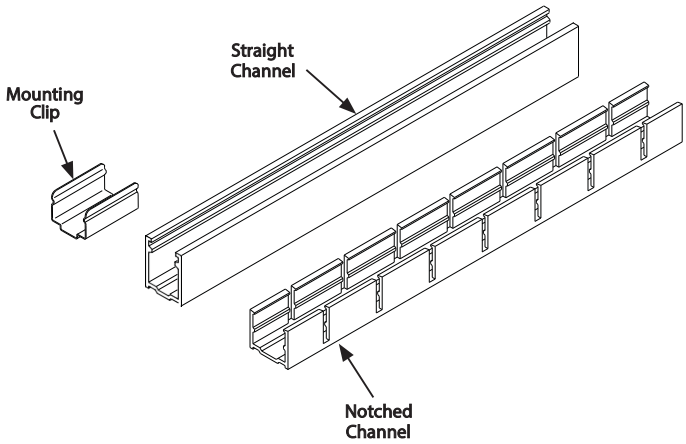
Overview: Read Before Installing Luminaire

Installation Notes:

Step 1: Measure run area where Trace™ RGB is to be installed. Locate power feed end at highest point of the run to minimize exposure to water run off.

Step 2: A Mounting Channel is recommended for outdoor applications. Lay channel along desired area and attach with screws (by others) every 18 to 24 inches. If the design requires creating bends and arcs, it is recommended that the Horizontal Notched Channel be used.

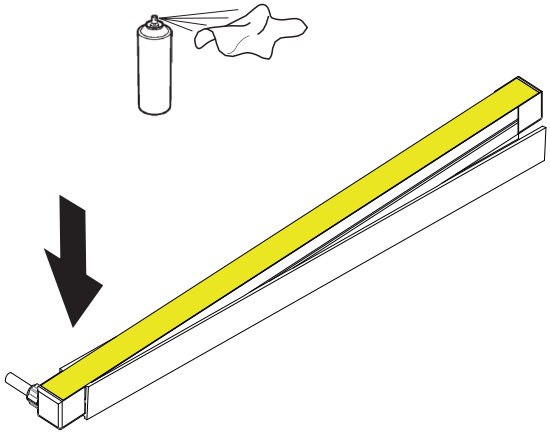
Note: Minimum bending diameter for the notched channel is 11". Trace™ Horizontal must not be bent less than 2" diameter or damage will result.



Step 3: Trace™ must be installed with two people. One to press the luminaire into the channel and the other to hold the spool and unroll it while keeping the Trace™ flex body straight.

Warning: Risk of Product damage.
Do not stretch, pull, or yank. Doing so can damage the Trace™ internal connections and void the warranty.

Note: We recommend using a dry spray lubricant, such as 3M Spray Lubricant or WD-40 Specialist for all Trace™ installations to insure the luminaire fits into the channel without damage. Additionally, Silicone Sealant (**FLXD-SIL-GE-10**) must be applied to the inside bottom surface.



Step 4: Insert Trace™ into mounted channel starting from power connector end. The End Cap and Power Feed Connector do not fit within the channel, so cut the Mounting Channel so that connectors and End Caps will overhang outside the ends of the Channel. Trace™ should be pressed into the channel carefully and gradually, without excessive bending or damage will result.

Step 5: Secure power connection to building with use of C-clamp (by others) or mount connection inside J-Box.

Connect to 24V DC power supply according to supplied wiring diagrams.

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Trace RGB Mounting Options

Trace™ Horizontal with Mounting Clips

Warning: Risk of Product Damage.
Only bend the Trace™ RGB Horizontal so the lens bends side to side. See diagram below.

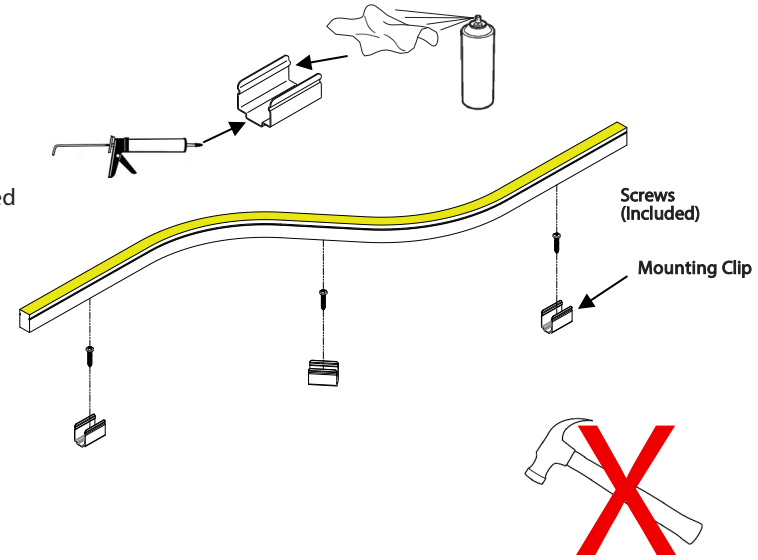
Note: Minimum bending diameter for Trace™ Horizontal is 2″ in the horizontal direction only.

Step 1: Determine where the Mounting Clips will need to be installed to achieve the desired shape.

Step 2: Position the Mounting Clips and attach with screws (Included).

Step 3: Lay a bead of Silicone Adhesive (**FLXD-SIL-GE-10**) to the inside bottom surfaces of the Mounting Clips, as shown.

Step 4: Spray Dry Lubricant on a rag and wipe the inside upper surfaces of the mounting clips, as shown, to allow the Trace™ fixture to slide more easily into the mounting clip. 3M Spray Lubricant or WD-40 Specialist is recommended.



Warning! Risk of Product Damage.
Regular WD40 490002 will stress craze, crack or swell the Trace™ Silicone covering. Do not use!

Step 5: Trace™ must be installed with two people. One to press the luminaire into the channel and the other to hold the spool and unroll it while keeping the Trace™ flex body straight.

Step 6: Press Trace™ into the Mounting Clip carefully and gradually, without excessive bending or damage will result.

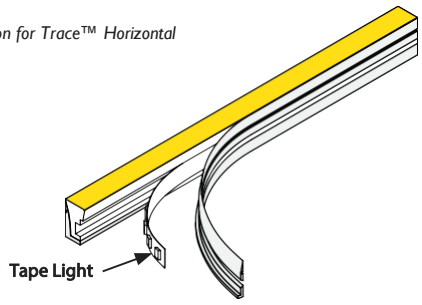
WARNING! Risk of Product Damage.
Do not hammer or pound the luminaire into the channel. Once inserted, do not pull or yank on the fixture. Trace™ will be damaged unless it is handled carefully.

Step 7: Connect to power.

Bending Limitations

Warning! Risk of Product Damage.
Trace™ RGB Horizontal can only be bent in the direction that does not twist the Tape Light.

Bending direction for Trace™ Horizontal



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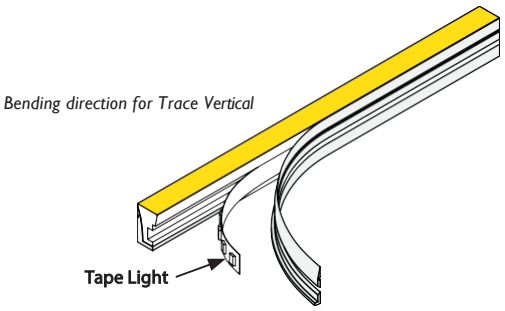
Trace RGB Mounting Options (Continued)

Install Trace™ Horizontal in Notched Mounting Channel

Warning: Risk of Product Damage.
Only bend the Trace™ Horizontal so the lens bends side to side so as not to twist the Tape Light. See diagram.



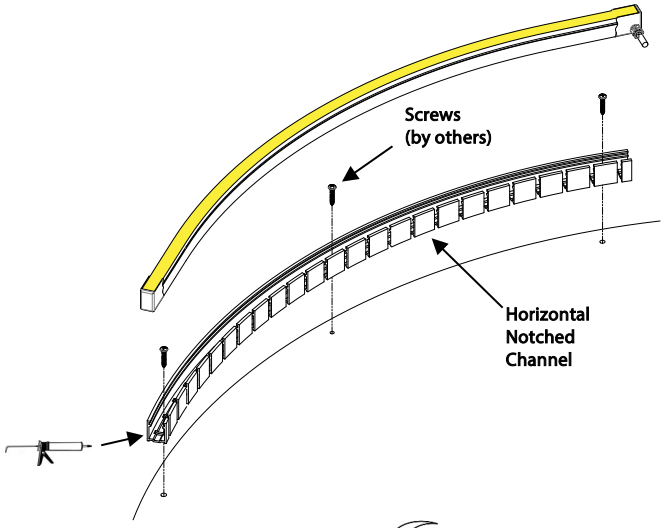
Note: Minimum bending diameter for the notched channel is 11". However, the minimum bending diameter for Trace™ Horizontal is 2" in the horizontal direction only.

Step 1: Determine Channel mounting Location.

Step 2: Drill a hole 3" from each end of the Channel and 18"-24" along length of Channel.

Step 3: Position the Notched Channel and attach with screws (by others).

Step 4: Lay a bead of Silicone Adhesive (**FLXD-SIL-GE-10**) to the inside bottom surfaces of the Notched Mounting Channel, as shown.



Step 5: Spray dry lubricant on a rag and wipe along the inside upper surfaces of the extrusion. We recommend using a dry spray lubricant, such as 3M Spray Lubricant or WD-40 Specialist for all Trace™ installations to insure the luminaire fits into the channel without damage.

Step 6: Start by orienting the Trace™ with the Lens facing away from the Channel, as shown.

Step 7: Trace™ must be installed with two people. One to press the luminaire into the channel and the other to hold the spool and unroll it while keeping the Trace™ flex body straight.

Step 8: Insert the Trace™ body into the Channel one flex section at a time. Start at one end and press it down carefully and gradually, working along the Channel, inserting the Trace™ body into each section until the entire Trace™ fixture is securely mounted in the channel.

WARNING! Risk of Product Damage.
Do not hammer or pound the luminaire into the channel. Once inserted, do not pull or yank on the fixture. Trace™ will be damaged unless it is handled carefully.

Step 9: Connect to power.

Bending Limitations

Warning! Risk of Product Damage.
Trace™ RGB Horizontal can only be bent in the direction that does not twist the Tape Light.

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Trace RGB Mounting Options (Continued)

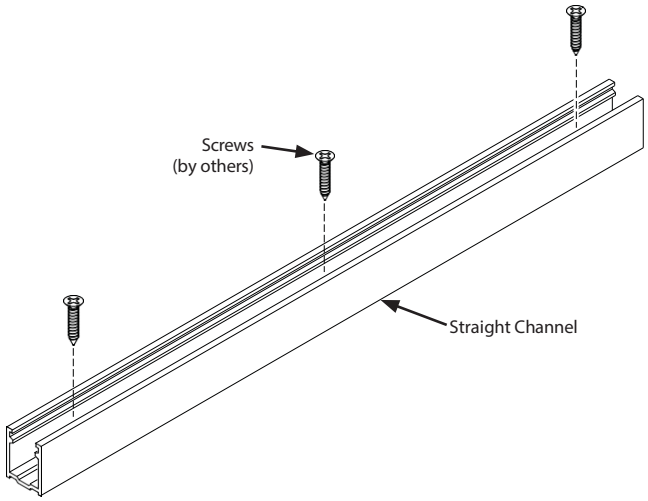
Straight Channel for Trace™ RGB Horizontal Installation

Step 1: Prepare Straight Mounting Channel for installation cutting it to the correct length, keeping in mind that the End Caps will not fit inside the Channel, and by drilling screw holes 3" from each end and additional holes approximately every 18" along the channel.

Step 2: Place Straight Channel on the mounting surface and mark the hole locations.

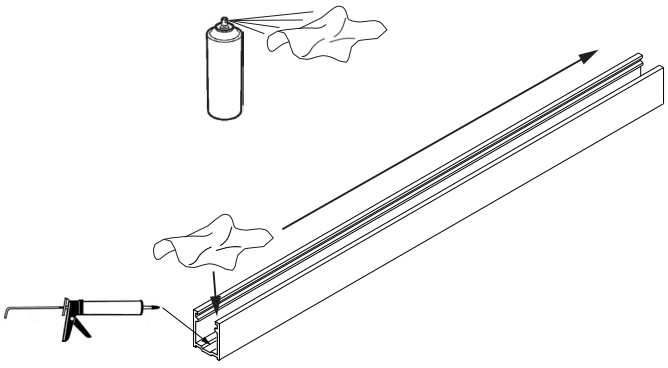
Step 3: Remove the Channel and drill pilot holes at all hole locations.

Step 4: Place the Channel into position and secure with screws (not included).
Note: Screws should be appropriate for the mounting location. (ie: wood screws for wood, etc.)



Step 5: Lay a bead of Silicone Adhesive (**FLXD-SIL-GE-10**) to the inside bottom surfaces of the Straight Channel, as shown.

Step 6: Spray dry lubricant on a rag and wipe along the inside upper surfaces of the extrusion. We recommend using a dry spray lubricant, such as 3M Spray Lubricant or WD-40 Specialist for all Trace™ installations to insure the luminaire fits into the channel without damage.

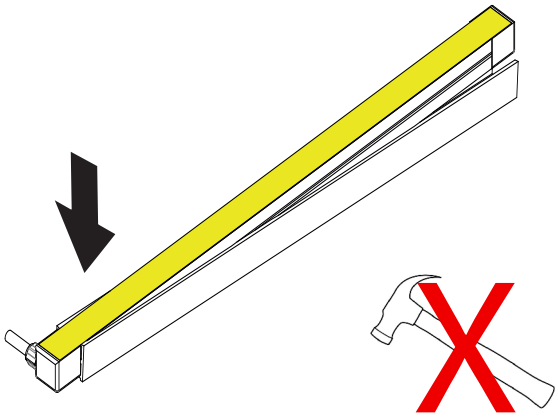


Step 7: Trace™ must be installed with two people. One to press the luminaire into the channel and the other to hold the spool and unroll it while keeping the Trace™ flex body straight.

Step 8: Start by orienting the Trace™ with the Lens facing away from the Channel, as shown.

Step 9: IMPORTANT! Insert the Trace™ body into the Channel. Start at one end and press it down carefully and gradually, working along the Channel, inserting the Trace™ body along the channel until the entire Trace™ fixture is securely mounted in the channel.

WARNING! Risk of Product Damage.
Do not hammer or pound the luminaire into the channel. Once inserted, do not pull or yank on the fixture. Trace™ will be damaged if it is not handled carefully.

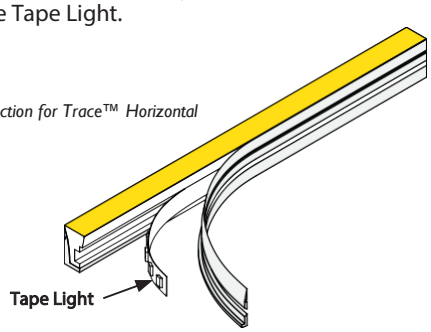


Step 10: Connect to power.

Bending Limitations

Warning! Risk of Product Damage.
Trace™ RGB Horizontal can only be bent in the direction that does not twist the Tape Light.

Bending direction for Trace™ Horizontal



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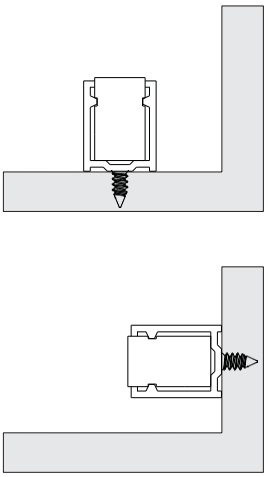
Trace™ RGB Mounting Options (Continued)



Note: Trace™ Mounting Channel can be mounted on horizontal or vertical surfaces.

Product Specification Guide

LUMINAIRE	POWER CONSUMPTION	MAX RUN LENGTH*
Trace RGB, Low Output	1.5W	58′
Trace RGB, Standard	3W	29′
Trace RGB, High Output	4.5W	19′

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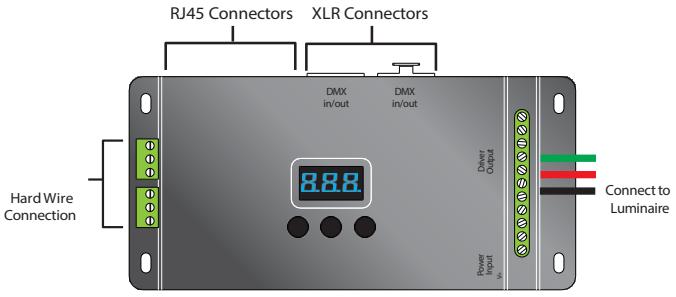
Trace™ RGB Basic Wiring Diagram

Electrical Connections for Trace™ RGB

Step 1: Turn power off before beginning electrical installation.
Note: Contacting hot wires against the Trace™ leads may damage the product and void the warranty.
Step 2: Connect Trace™ lead wires to RGB-Sub-Controller, or if using our ADUL-DIN series transformers, connect to pre-wired connectors which are found inside the power supply box. Refer to diagram below and on Page. Make sure each lead wire is connected to the correct terminal, as follows:

TIVOTAPE™ PAD DESIGNATION	LEAD WIRE COLOR	SUB-CONTROLLER TERMINAL OR ADUL-DIN CONNECTOR WIRE COLOR
+	Black	Black (+)
B	White	Blue
R	Red	Red
G	Green	Green
	White	Not used for RGB



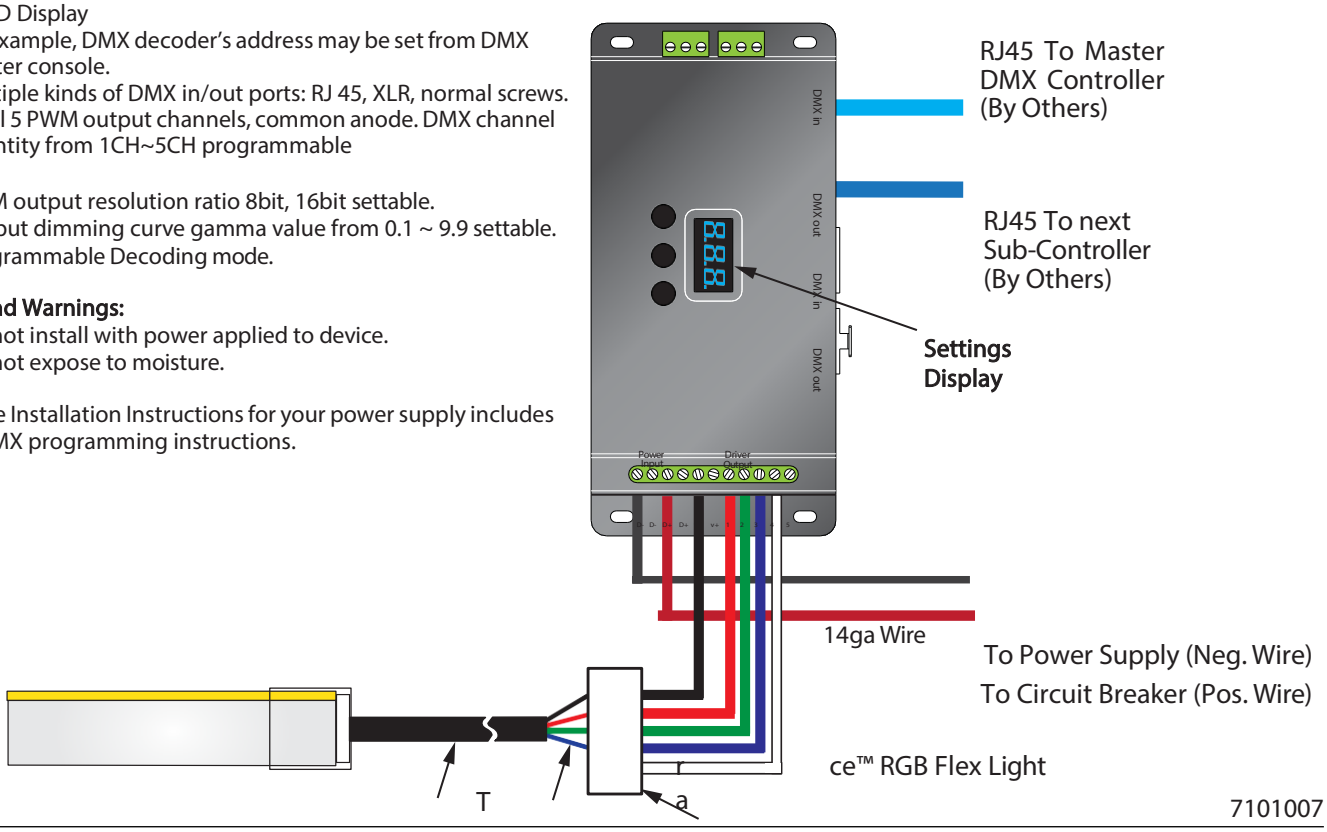
Step 3: Connect to a listed Class 2, 24V DC transformer only. See list of approved transformers.
Step 4: Optionally, Trace™ RGB may be dimmed using an MLV or ELV dimmer that is suitable for the power supply. Please contact our technical support staff for more information.

- DMX512 RDM decoder, RDM function can provide the interface between DMX master and decoder.
- OLED Display
  for example, DMX decoder's address may be set from DMX master console.
- Multiple kinds of DMX in/out ports: RJ 45, XLR, normal screws.
- Total 5 PWM output channels, common anode. DMX channel quantity from 1CH~5CH programmable

- PWM output resolution ratio 8bit, 16bit settable.
- Output dimming curve gamma value from 0.1 ~ 9.9 settable.
- Programmable Decoding mode.

Safety and Warnings:
- Do not install with power applied to device.
- Do not expose to moisture.

Note: The Installation Instructions for your power supply includes DMX programming instructions.



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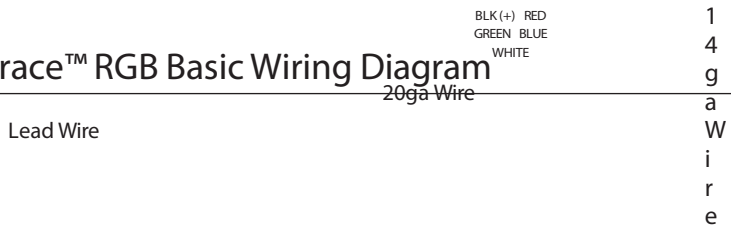
Trace™ RGB Basic Wiring Diagram



Note:
Connectors located inside box

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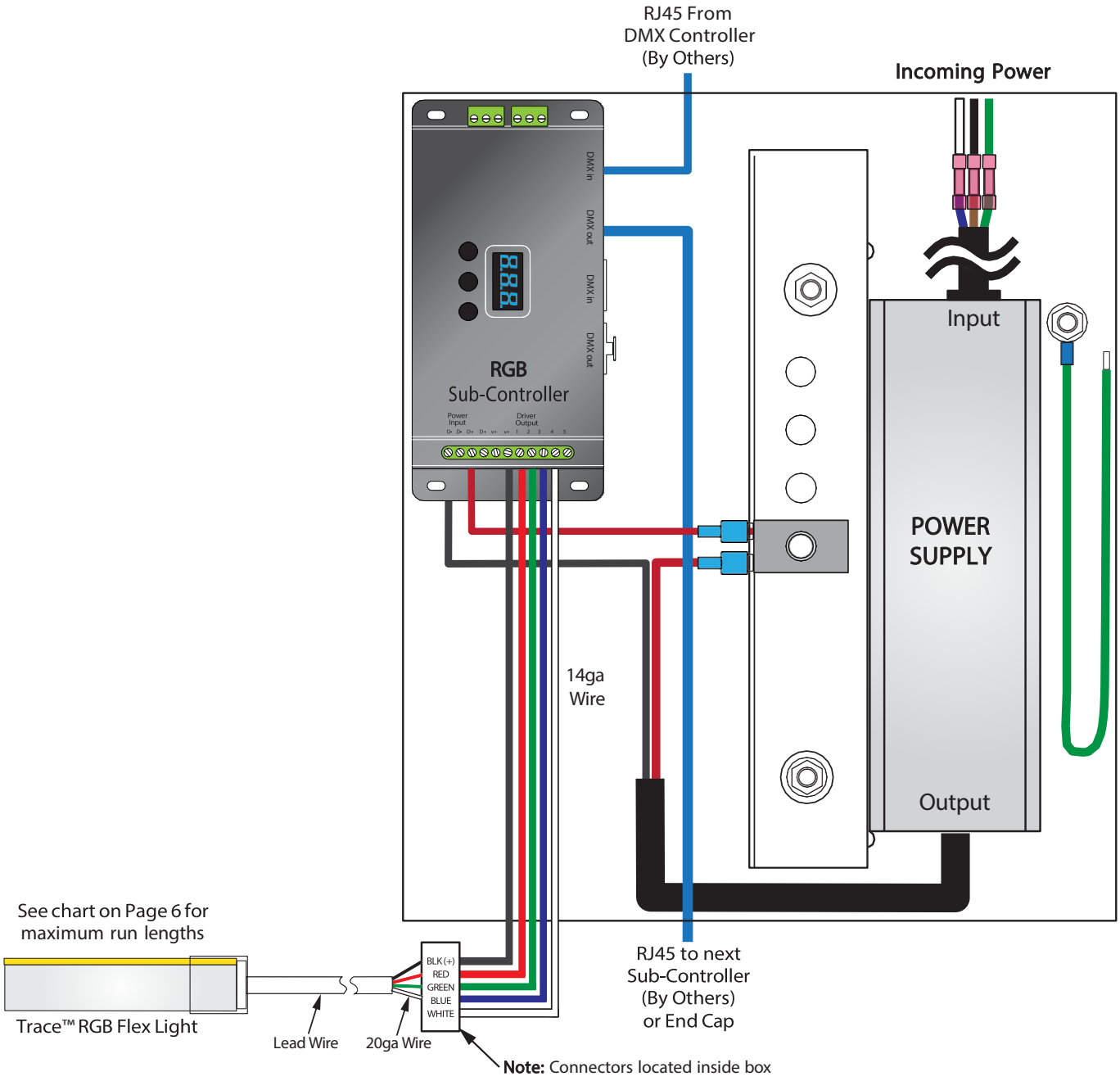
Power Supply with Sub-Controller Sample Wiring Diagram

There are many possible options for controlling Trace™ RGB. See the specification Sheet for more information. The following wiring diagram is for reference only. Please refer to the Installation Instruction for the Power Supply you choose for detailed wiring instructions.



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