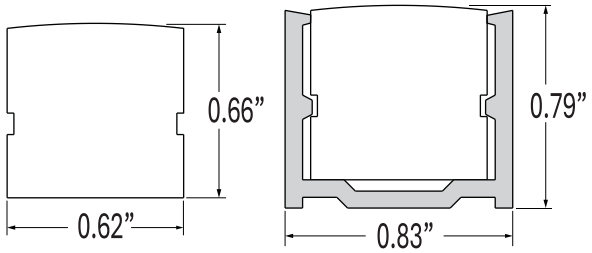
Profiles:



TRACE™ Pro

TRACE™ PRO is an indoor/outdoor low voltage lighting system used primarily for direct or indirect lighting designs. Profile for horizontal and vertical versions the same.

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™ Pro 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.

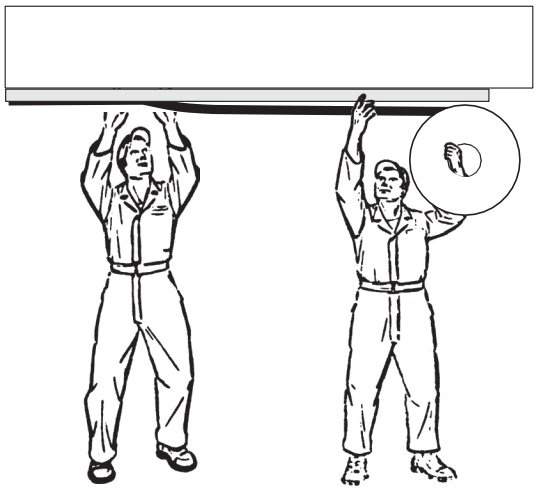
Warning: With any luminaire for any application, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injuries. This lighting system should be installed by a certified professional.

WARNINGS

TRACE™ PRO 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™ Pro lighting strands must be installed by at least two people.

IMPORTANT! The TRACE™ Pro luminaire must not be allowed to bend or hang down. That way, the bending limit will not be inadvertently exceeded, which may result in product damage.

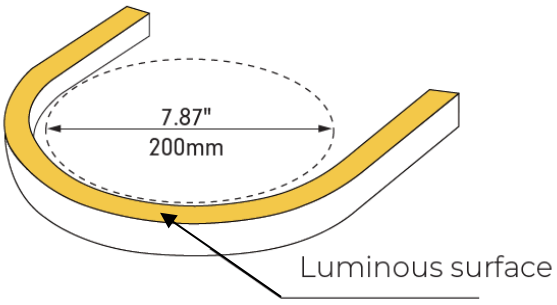


Keep Trace™ from twisting or bending in the wrong direction.
Two-person installation.

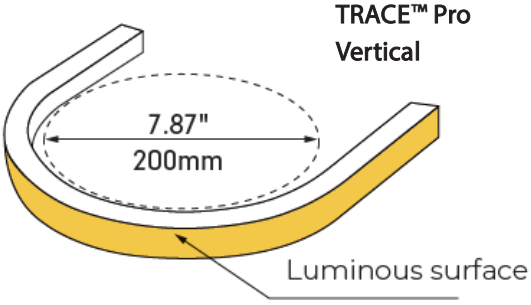
WARNING! Risk of product damage.
TRACE™ Pro must not be bent at less than 7.87” diameter or damage will result. Do not allow TRACE™ Pro to twist or bend in the wrong direction.

WARNING! Risk of product damage.
Insert TRACE™ Pro into channel evenly and gradually to keep twisting and bending to a minimum.

TRACE™ Pro Horizontal



TRACE™ Pro Vertical



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Overview: Read Before Installing Luminaire

Installation Notes:

Step 1: Measure run area where TRACE™ Pro 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 Notched Channel be used.

Note: Minimum bending diameter for the notched channel is 11". TRACE™ Pro Vertical must not be bent less than 3.5" diameter or damage will result.

Step 3: TRACE™ Pro 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™ Pro flex body straight.

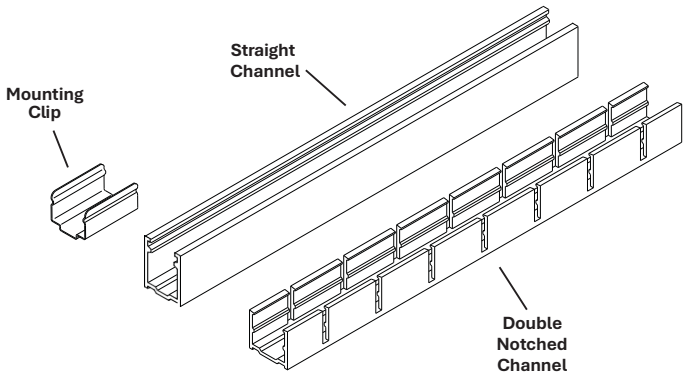
Warning: Risk of Product damage.
Do not stretch, pull, or yank. Doing so can damage the TRACE™ Pro internal connections and void the warranty.

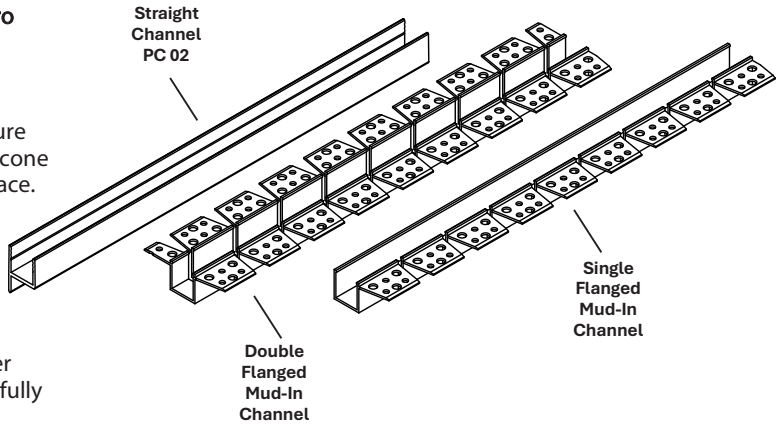
Note: We recommend using a dry spray lubricant, such as 3M Spray Lubricant or WD-40 Specialist* for all TRACE™ Pro installations to insure the luminaire fits into the channel without damage. Additionally, Silicone Sealant (**FLXD-SIL-GE-10**) must be applied to the inside bottom surface.

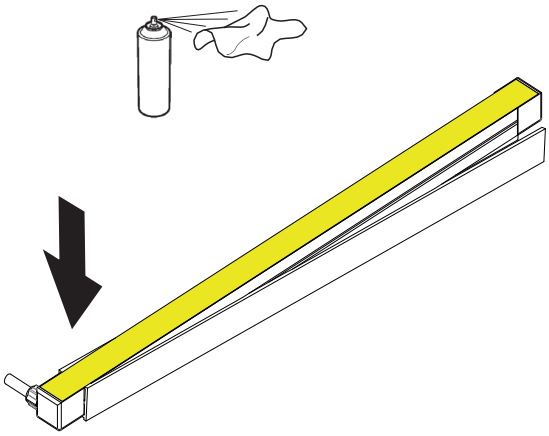
***WARNING!** Risk of Product Damage.
Regular WD40 490002 will stress craze, crack or swell the TRACE™ Pro Silicone covering. Do not use!

Step 4: Insert TRACE™ Pro into mounted channel starting from power connector end. TRACE™ Pro should be pressed into the channel carefully and gradually, without excessive bending or damage will result.

Step 5: Connect to 24V DC power supply according to supplied wiring diagrams.







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Identifying your TRACE™ Pro

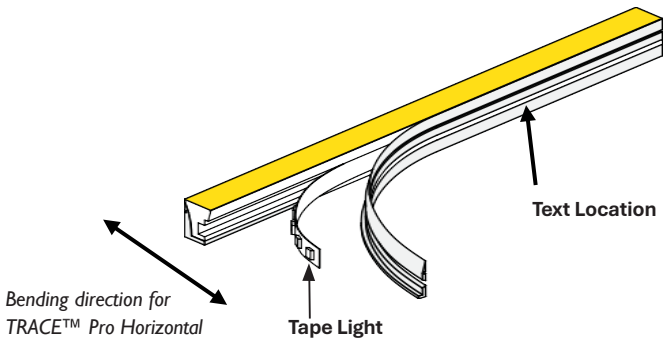
Both Horizontal and Vertical versions have the same profile and shape so please use the following information to help identify which version you are using to properly install and prevent damage.

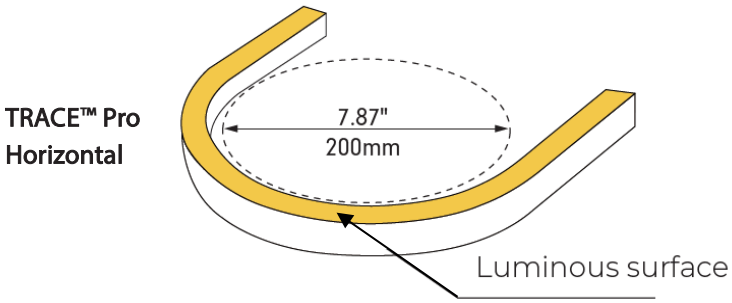
Bending Limitations

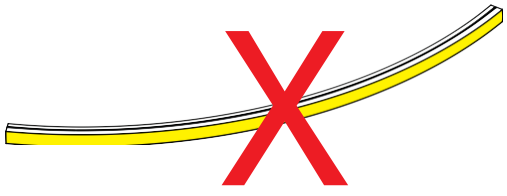
WARNING! Risk of Product Damage.
TRACE™ Pro can only be bent in the direction that does not twist the Tape Light.

TRACE™ Pro Horizontal

- Body bends perpendicular to light source.
- Printing (text) is on side of body. (Side adjacent to light source).
  - Product code is printed in text: TRCEPR-[X]-H-…[etc]
  - Example: TRCEPR-S-H-27-WHT-F1-E-24-050



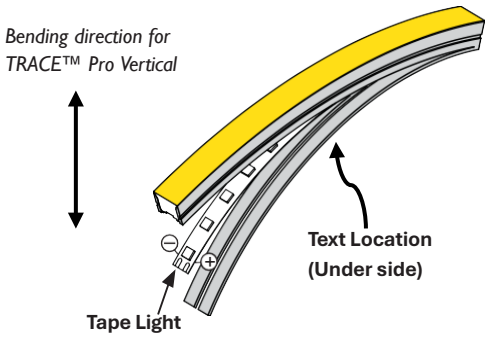


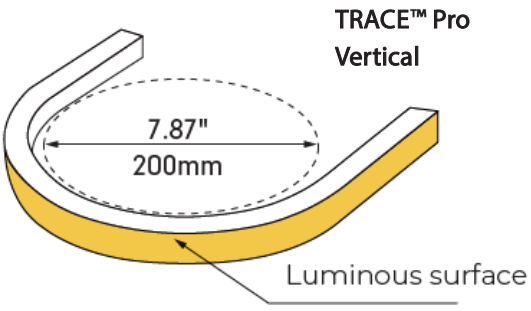


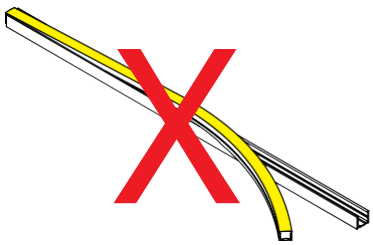
TRACE™ Pro Horizontal
Do not allow to twist or bend in the wrong direction.

TRACE™ Pro Vertical

- Body bends parallel to light source.
- Printing (text) is on backside of body. (Side opposite of light source).
  - Product code is printed in text: TRCEPR-[X]-V-…[etc]
  - Example: TRCEPR-S-V-27-WHT-F1-E-24-050







TRACE™ Pro Vertical
Do not allow to twist or bend in the wrong direction.

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TRACE™ Pro Mounting: Mounting Clips

Install TRACE™ Pro with Mounting Clips

Applicable Products:	TRACE™ Pro Horizontal	TRACE™ Pro Vertical
TRCEPR-XXX-MTCLIPS	✓	✓
TRCEPR-CLR-PCCLIPS	✓	✓

Note: Minimum bending diameter for TRACE™ Pro is 7.87".

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.

Note: If installing upside down on ceiling or vertically on wall, apply Silicone Adhesive (**FLXD-SIL-GE-10**) along the inside of Channel to secure TRACE™ Pro to the Channel.

Step 4: Spray Dry Lubricant on a rag and wipe the inside upper surfaces of the mounting clips, as shown, to allow the TRACE™ Pro fixture to slide more easily into the mounting clip. We recommend using a dry spray lubricant, such as 3M Spray Lubricant or WD-40 Specialist* for all TRACE™ Pro installations to insure the luminaire fits into the channel without damage.

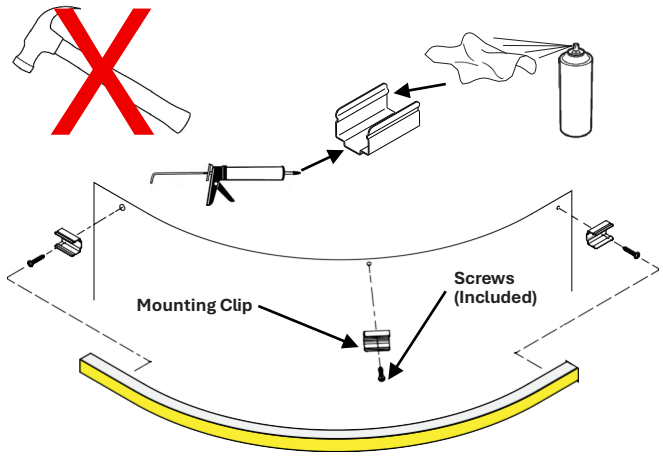
***WARNING!** Risk of Product Damage.
Regular WD40 490002 will stress craze, crack or swell the TRACE™ Pro Silicone covering. Do not use!

Step 5: TRACE™ Pro 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™ Pro flex body straight.

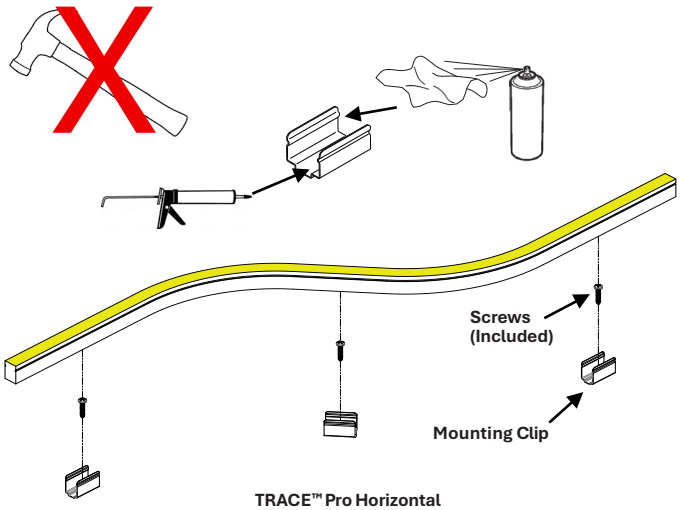
Step 6: Press TRACE™ Pro into the Mounting Clip carefully and gradually, without excessive bending or damage will result.

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™ Pro will be damaged unless it is handled carefully.

Step 7: Connect to power.



TRACE™ Pro Vertical



TRACE™ Pro Horizontal

Bending Limitations

WARNING! Risk of Product Damage.
TRACE™ Pro can only be bent in the direction that does not twist the Tape Light.

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TRACE™ Pro Mounting: Dual-Bend Notched Channel

Install TRACE™ Pro in Dual-Bend Notched Channel

Applicable Products:	TRACE™ Pro Horizontal	TRACE™ Pro Vertical
TRCEPR-SLV-NCHAN-4	✓	✓

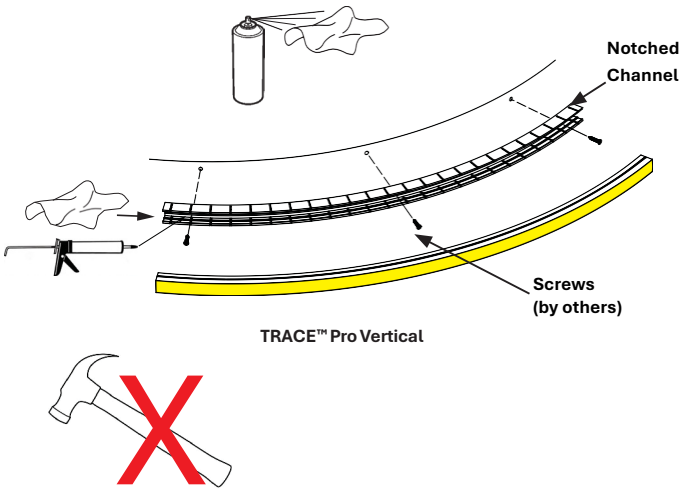
Note: Minimum bending diameter for the notched channel is 11". However, the minimum bending diameter for TRACE™ Pro is 7.87".

Step 1: Determine Channel mounting Location.

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

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

Step 4: Lay a bead of Silicone Adhesive (**FLXD-SIL-GE-10**) to the inside bottom surface of the notched mounting channel, as shown.



TRACE™ Pro Vertical

Note: If installing upside down on ceiling or vertically on wall, apply Silicone Adhesive (**FLXD-SIL-GE-10**) along the inside of Channel to secure TRACE™ Pro to the Channel.

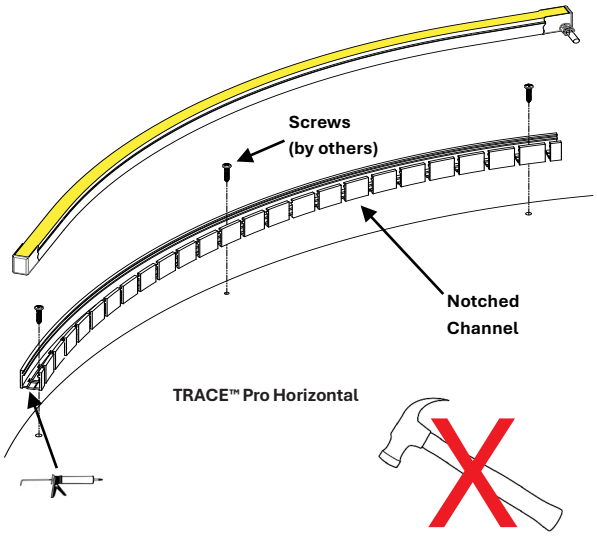
Step 5: Spray dry lubricant on a rag and wipe along the inside upper surfaces of the extrusion. We recommend using a dry spray lubricant, such as 3M Spray Lubricant or WD-40 Specialist* for all TRACE™ Pro installations to insure the luminaire fits into the channel without damage.

***WARNING!** Risk of Product Damage.
Regular WD40 490002 will stress craze, crack or swell the TRACE™ Pro Silicone covering. Do not use!

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

Step 7: TRACE™ Pro 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™ Pro flex body straight.

Step 8: Insert the TRACE™ Pro 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™ Pro body into each section until the entire TRACE™ Pro fixture is securely mounted in the channel.



TRACE™ Pro Horizontal

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™ Pro will be damaged unless it is handled carefully.

Step 9: Connect to power.

Bending Limitations

WARNING! Risk of Product Damage.
TRACE™ Pro can only be bent in the direction that does not twist the Tape Light.

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TRACE™ Pro Mounting: Flanged Mud-In Channel

Install TRACE™ Pro in Flanged Mud-In Channel

Applicable Products:	TRACE™ Pro Horizontal	TRACE™ Pro Vertical
TRCEPR-SLV-SF-CHAN-4	✓	Straight only*
TRCEPR-SLV-DF-CHAN-4	✓	✓

***WARNING:** TRACE™ Pro Vertical fits into Single Flange Mud-In Channel only when it is installed straight and not bent/ not curved.

Note: Minimum bending diameter for the notched channel is 11". However, the minimum bending diameter for TRACE™ Pro is 7.87".

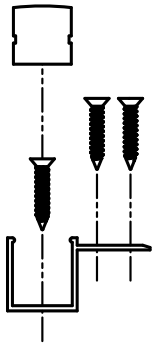


Figure A: Can screw through side flange or back of channel (Screws by others)

Step 1: Determine Channel mounting Location.

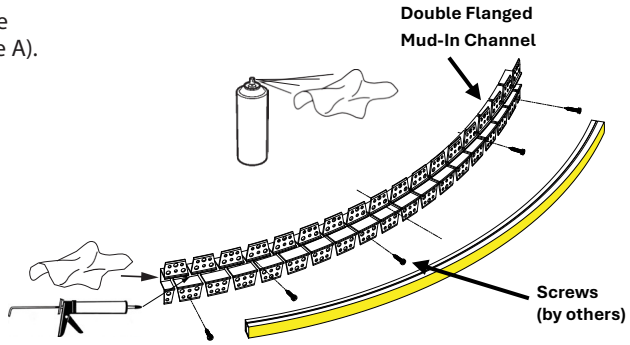
Step 2: Cut a 0.76" wide slot in length and shape desired for the channel to fit into.

Step 3: Position the Mud-In Channel and attach with screws (by others). Can be screwed either through back of channel or through holes in flange (See Figure A).

Step 4: Apply Mud over flanges and paint when dried.

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

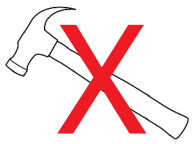
Note: If installing upside down on ceiling or vertically on wall, apply Silicone Adhesive (**FLXD-SIL-GE-10**) along the inside of Channel to secure TRACE™ Pro to the Channel.



TRACE™ Pro Vertical with Double Flanged Mud-In Channel

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™ Pro installations to insure the luminaire fits into the channel without damage.

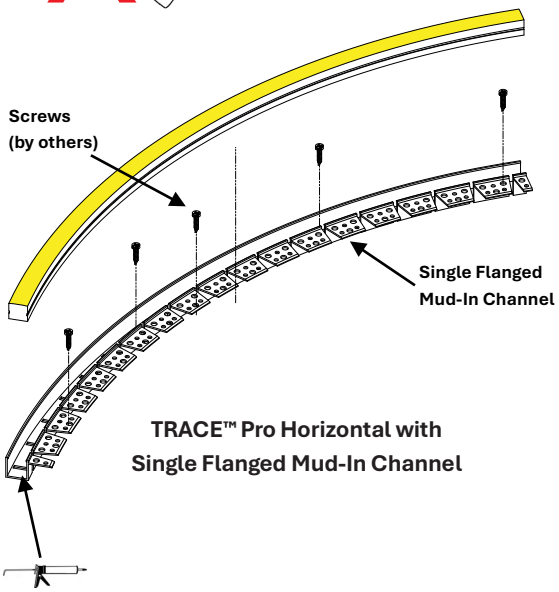
***WARNING!** Risk of Product Damage.
Regular WD40 490002 will stress craze, crack or swell the TRACE™ Pro Silicone covering. Do not use!



Step 7: Start by orienting the TRACE™ Pro with the Lens facing away from the Channel, as shown.

Step 8: TRACE™ Pro 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™ Pro body straight.

Step 9: Insert the TRACE™ Pro body into the Channel one section at a time. Start at one end and press it down carefully and gradually, working along the Channel, inserting the TRACE™ Pro body into each section until the entire TRACE™ Pro fixture is securely mounted in the channel.



TRACE™ Pro Horizontal with Single Flanged Mud-In 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™ Pro will be damaged unless it is handled carefully.

Step 10: Connect to power.

Bending Limitations

WARNING! Risk of Product Damage.
TRACE™ Pro can only be bent in the direction that does not twist the Tape Light.

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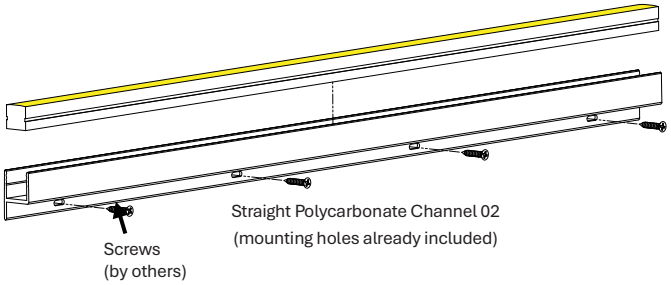
TRACE™ Pro Mounting: Straight Channel

Straight Channel for TRACE™ Pro Installation

Applicable Products:	TRACE™ Pro Horizontal	TRACE™ Pro Vertical
TRCEPR-SLV-CHAN-4	✓	✓
TRCEPR-CLR-PCCHAN-01-4	✓	✓
TRCEPR-CLR-PCCHAN-02-4	✓	✓



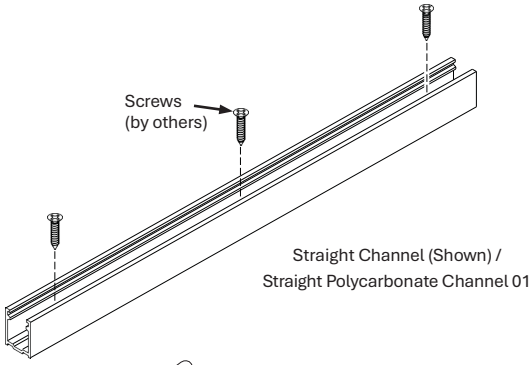
Step 1: Prepare Straight Channel for installation cutting it to the correct length, and by drilling screw holes 3" from each end and additional holes approximately every 18" along the channel.

Note: Straight Polycarbonate Channel 02 already has holes, add as needed.

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

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

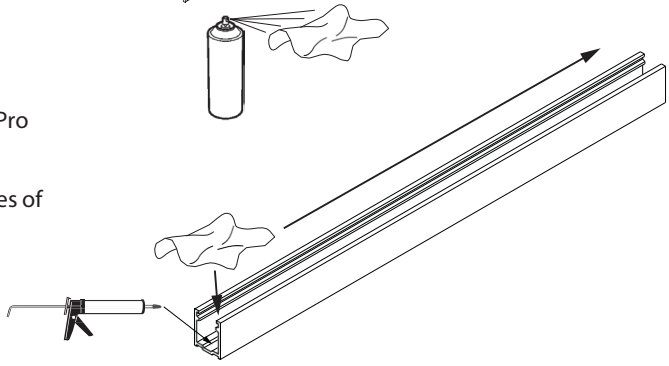
Step 4: Place the Channel into position and secure with screws (not included).



Note: Screws should be appropriate for the mounting location. (i.e.: wood screws for wood, etc.)

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

Note: If installing upside down on ceiling or vertically on wall, apply Silicone Adhesive (**FLXD-SIL-GE-10**) along the inside of Channel to secure TRACE™ Pro to the Channel.



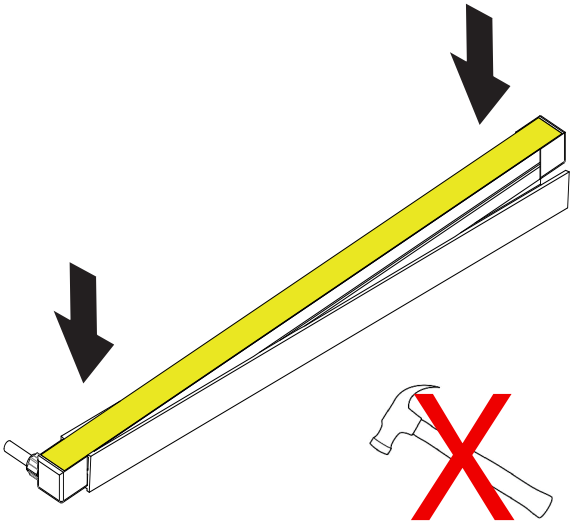
Step 6: Spray dry lubricant on a rag and wipe along the inside upper surfaces of the extrusion. We recommend using a dry spray lubricant, such as 3M Spray Lubricant or WD-40 Specialist* for all TRACE™ Pro installations to insure the luminaire fits into the channel without damage.

***WARNING!** Risk of Product Damage.
Regular WD40 490002 will stress craze, crack or swell the TRACE™ Pro Silicone covering. Do not use!

Step 7: TRACE™ Pro 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™ Pro flex body straight.

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

Step 9: IMPORTANT! Insert the TRACE™ Pro body into the Channel. Start at one end and press it down carefully and gradually, working along the Channel, inserting the TRACE™ Pro body along the channel until the entire TRACE™ Pro 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™ Pro will be damaged unless it is handled carefully.

Step 10: Connect to power.

Bending Limitations

WARNING! Risk of Product Damage.
TRACE™ Pro can only be bent in the direction that does not twist the Tape Light.

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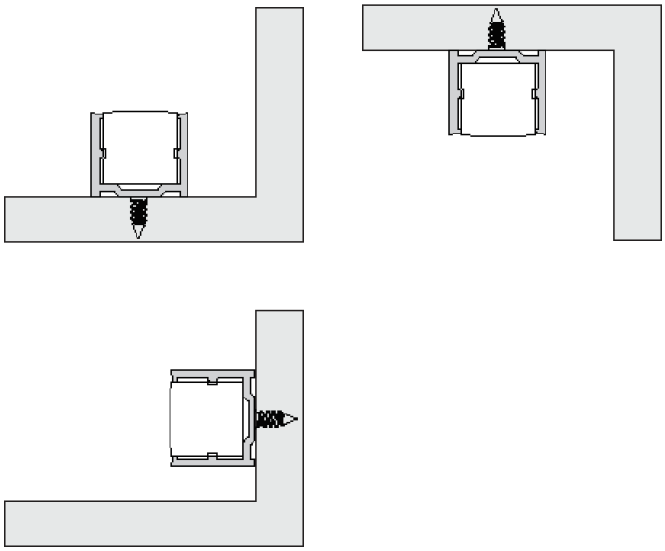
TRACE™ Pro Mounting: Orientation

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



Product Specification Guide

TRACE™ PRO LED COLOR	OUTPUT	POWER CONSUMPTION	MAX RUN LENGTH
1800K 2100K 2400K 2700K 3000K 3500K 4000K 5000K 6500K Red Green Blue Yellow Orange	Low	1.5W	58′
	Standard	3W	29′
	High	4.5W	19′
Pink	Low	1.5W	53′
	Standard	3W	29′
	High	4.5W	17′

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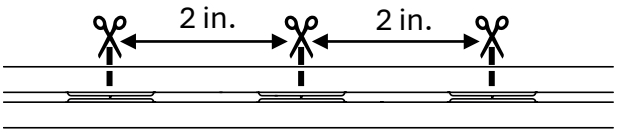
TRACE™ Pro: Field Cut Instructions (Optional)

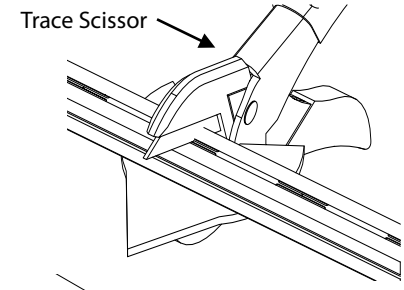
Applicable Products:	TRACE™ Pro Horizontal	TRACE™ Pro Vertical
TRCEPR-NS-EC	✓	✓

Step 1: Ensure that the Trace fixture is disconnected from power.

Step 2: Measure and make a clean 90 degree cut at the desired length using the Trace scissors (TRCE-SCSOR). There are marked locations at every cut increment every 2 inches.

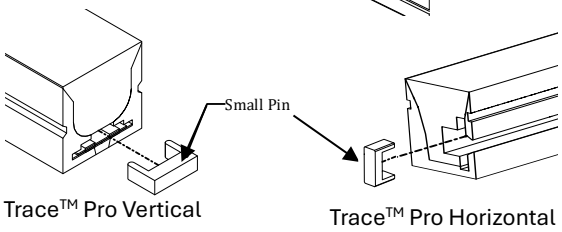
Note: Before making the final cut, it is highly recommended to make a test cut at a longer length and verify that the fixture turns on. Then, disconnect it and make the final cut.



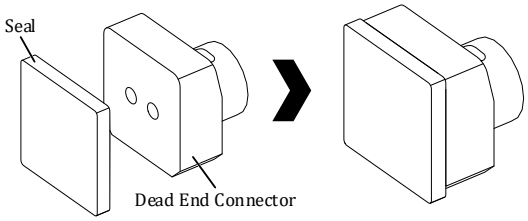


Step 3: Insert the small pin into the end of the Trace fixture.

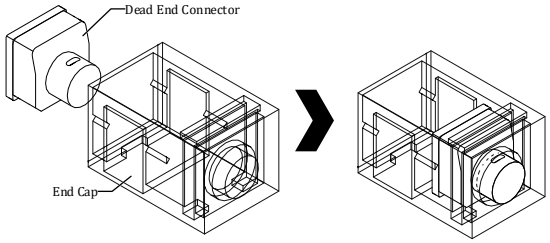
Note: Keep in mind Vertical and Horizontal versions have different small pin insertion orientations.



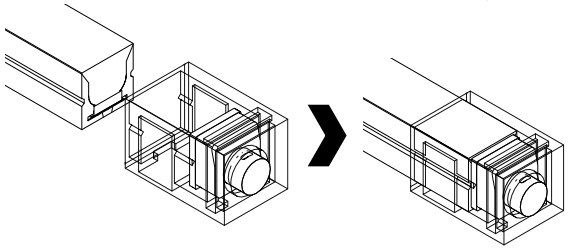
Step 4: On the dead-end side, ensure the dead-end seal is flush to the surface of the dead-end connector.



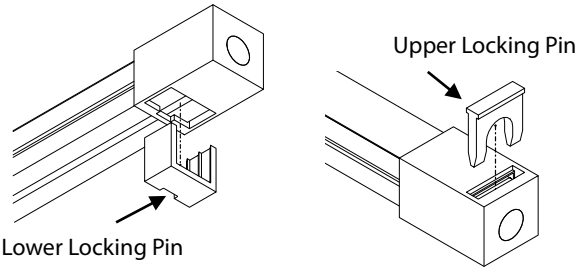
Step 5: Insert the dead-end connector into the end cap.



Step 6: Insert the Trace fixture into the end cap with the dead-end connector.



Step 7: Insert the lower locking pin and upper locking pin to secure the Trace fixture.



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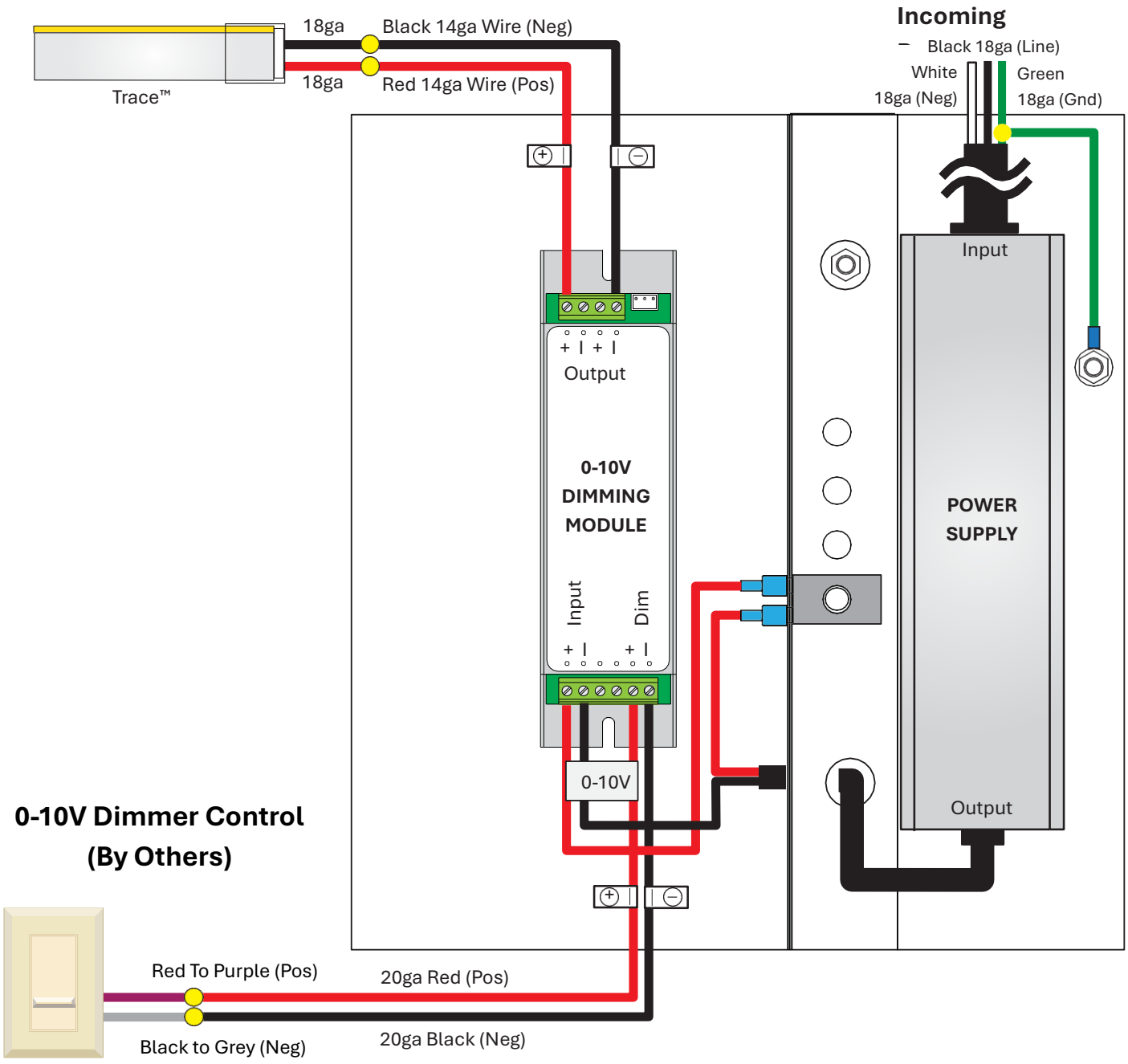
Power Supply with 0-10V Sample Wiring Diagram

There are many possible options for dimming TRACE™ Pro. 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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TRACE™ Pro RGB Basic Wiring Diagram

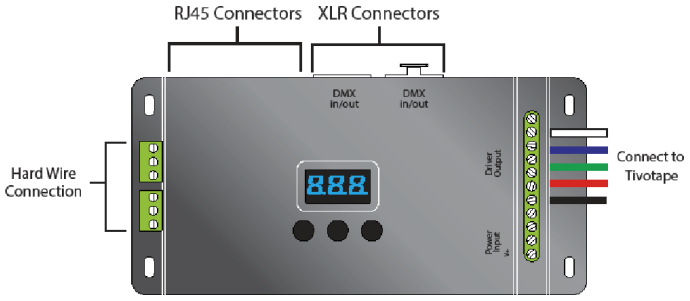
Electrical Connections for TRACE™ Pro RGB

Step 1: Turn power off before beginning electrical installation.

Note: Contacting hot wires against the TRACE™ Pro leads may damage the product and void the warranty.

Step 2: Connect TRACE™ Pro 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	Blue	Blue
R	Red	Red
G	Green	Green
	White	Not used for RGB



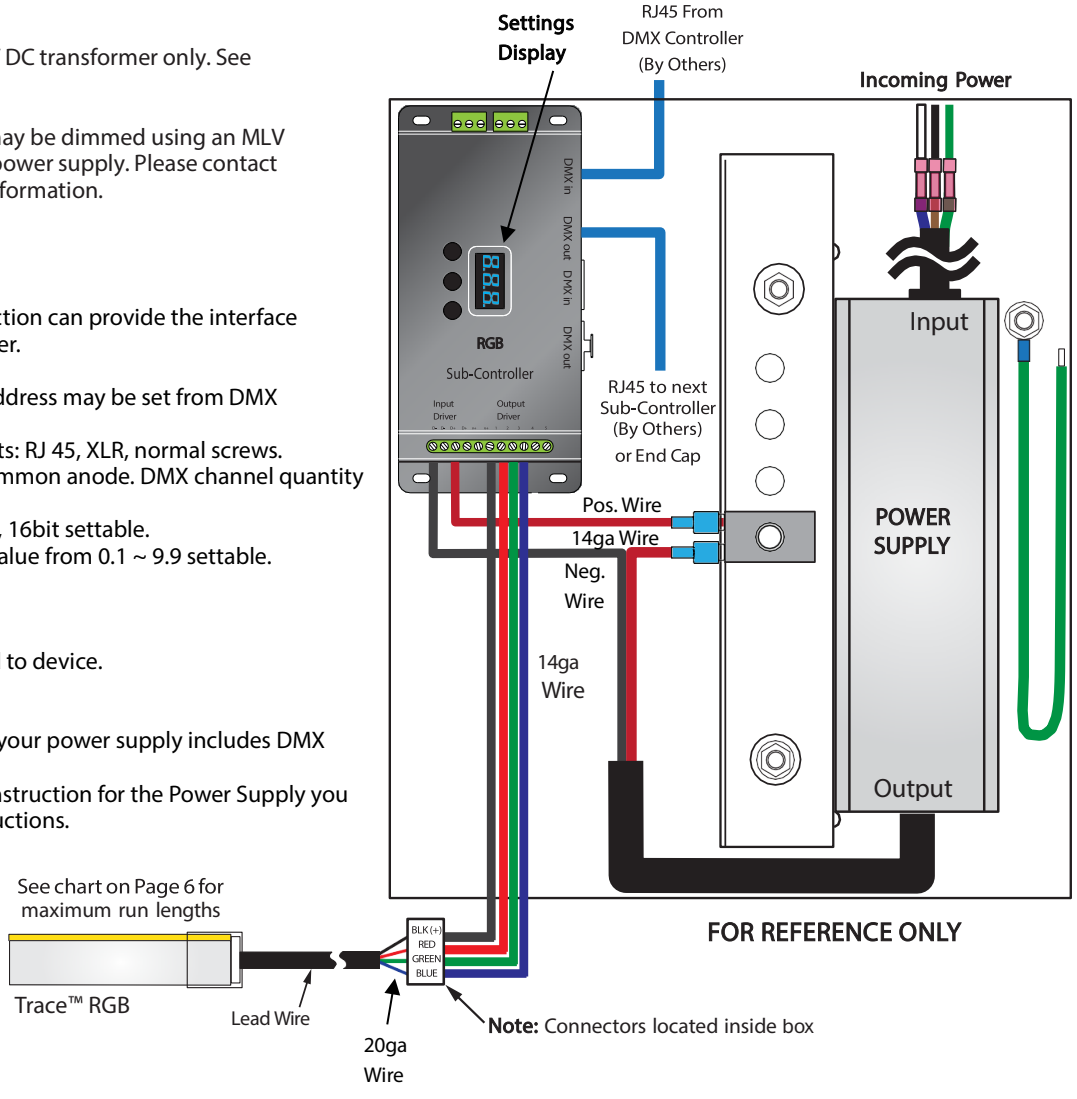
Step 3: Connect to a listed Class 2, 24V DC transformer only. See list of approved transformers.

Step 4: Optionally, TRACE™ Pro 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.
  - 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.
Note: Please refer to the Installation Instruction for the Power Supply you choose for detailed wiring instructions.



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TRACE™ Pro RGBW Basic Wiring Diagram

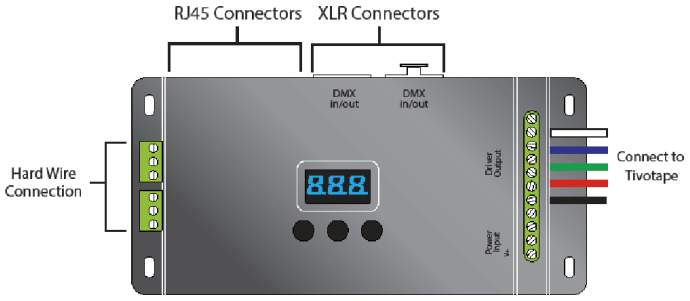
Electrical Connections for TRACE™ Pro RGBW

Step 1: Turn power off before beginning electrical installation.

Note: Contacting hot wires against the TRACE™ Pro leads may damage the product and void the warranty.

Step 2: Connect TRACE™ Pro lead wires to RGBW-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	Blue	Blue
R	Red	Red
G	Green	Green
W	White	White



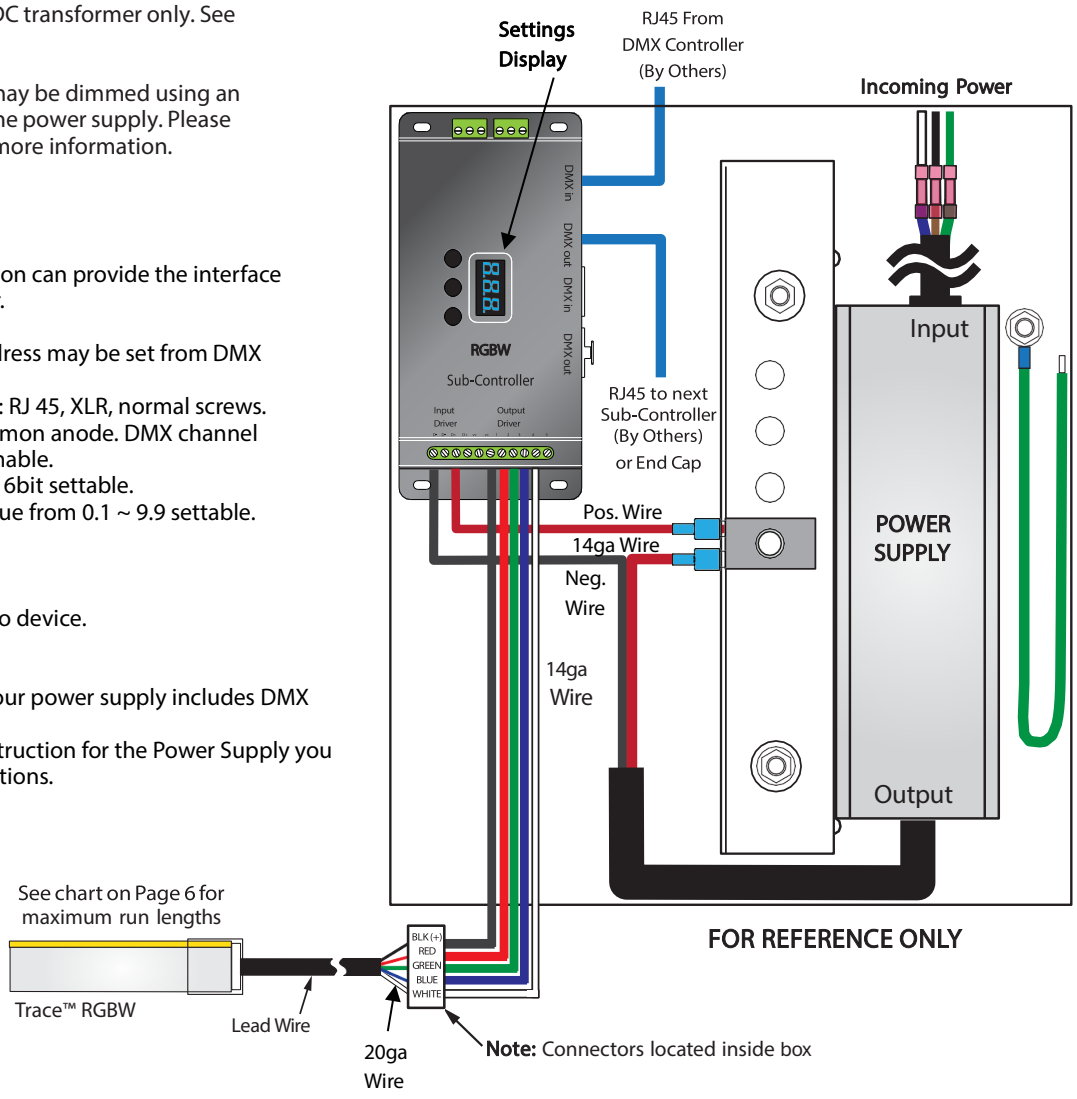
Step 3: Connect to a listed Class 2, 24V DC transformer only. See list of approved transformers.

Step 4: Optionally, TRACE™ Pro RGBW 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.
  - 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.
Note: Please refer to the Installation Instruction for the Power Supply you choose for detailed wiring instructions.



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TRACE™ Pro Tunable White Basic Wiring Diagram

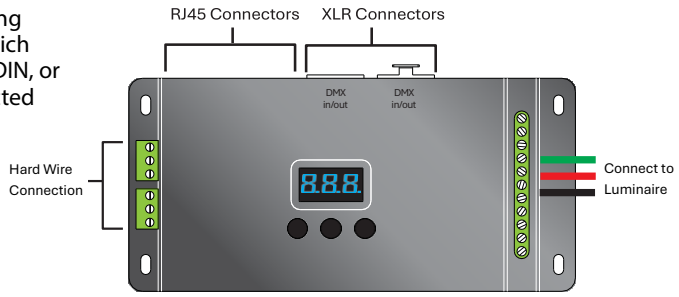
Elecrical Connections for TRACE™ Pro Tunable White

Step 1: Turn power off before beginning electrical installation.

Note: Contacting hot wires against the TRACE™ Pro leads may damage the product and void the warranty.

Step 2: Connect TRACE™ Pro lead wires to DMX-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, ADUL-DIN, or ADNM-DIN installation instructions. 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 (+)
Y	Yellow	Red
W	White	Green



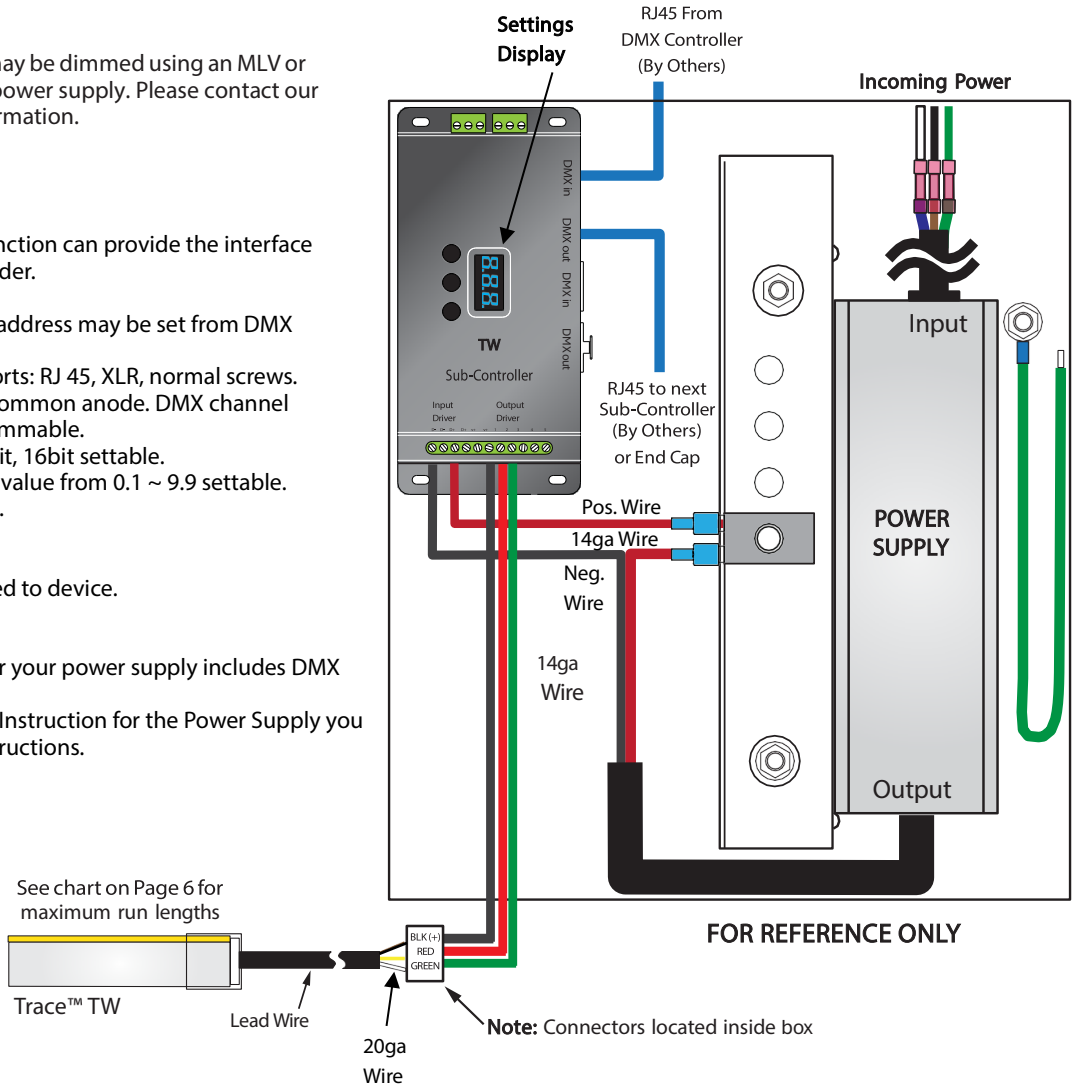
Step 3: Connect to a listed Class 2, 24V DC transformer only. See list of approved transformers.

Step 4: Optionally, TRACE™ Pro TW 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.
  - 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.
Note: Please refer to the Installation Instruction for the Power Supply you choose for detailed wiring instructions.



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