PURE EDGE LIGHTING

Installation Instructions for **Verge Wall 24VDC**

IMPORTANT INFORMATION
- This instruction shows a typical installation.

SAVE THESE INSTRUCTIONS!

ETL LISTED
Intertek

Horizontal Channel Installation

A

HORIZONTAL ORIENTATION

ADJUSTABLE MOUNTING BAR
JUNCTION BOX
PHILLIPS SCREW
MOUNTING BRACKET

VERTICAL ORIENTATION

ADJUSTABLE MOUNTING BAR
PHILLIPS SCREW
MOUNTING BRACKET

1: Mount each adjustable mounting bar to one side of the junction box (mounts to any side of the housing depending on the orientation of the channel) and secure them with the mounting brackets and two Phillips screws provided.

B

JOIST
#8 SCREW
JUNCTION BOX
STUD
ADJUSTABLE MOUNTING BAR

NOTE: The adjustable mounting bars mount to studs that are spaced 13" to 24" apart.

NOTE: Junction box must be installed 4" from the ceiling or wall when using the provided back plate.

2: Select the location between the two studs for the junction box to be mounted.

**3:** Place the adjustable mounting bars between the studs.

4: Make sure the lips on the adjustable mounting bars are against the studs. Secure the adjustable bars to the studs with the eight #8 screws.

5: Remove a knockout to install the power line conduit.

6: Install the conduit and run the low voltage 24V DC power wires coming from the remote power supply to the junction box.

7: Refer to the instruction provided with the power supply along with the wiring diagram for proper wiring.
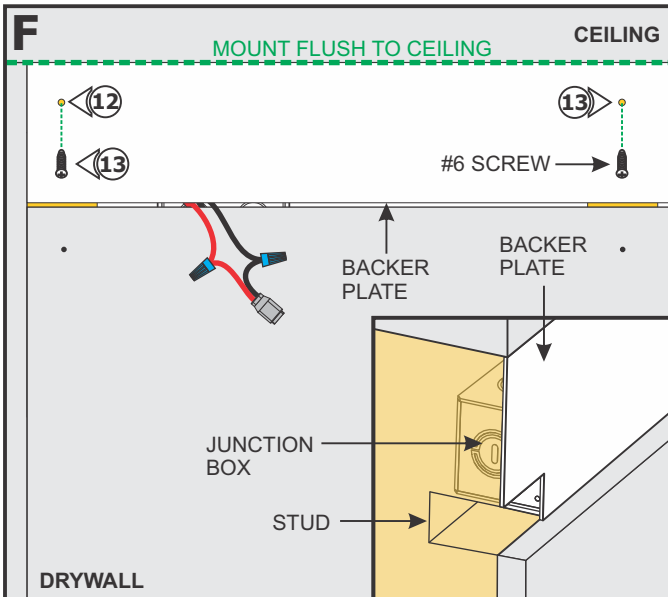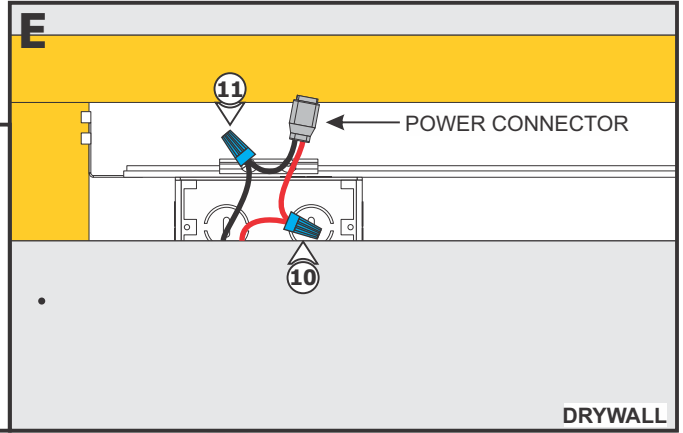
C

JUNCTION BOX
JOIST
STUD
ADJUSTABLE MOUNTING BAR
CONDUIT

D

STUD

CEILING

4-1/8"

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⑧

MARKING
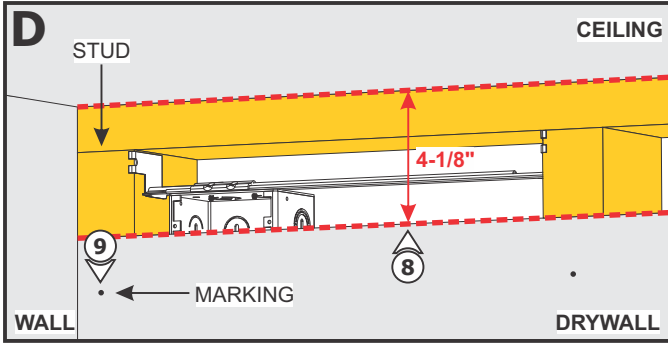
WALL

DRYWALL

8: Cut the drywall 4-1/8" from the ceiling (or adjacent wall.)

9: Mount the drywall to the studs. Mark the stud locations on the drywall.

CAUTION: Unroll the entire LED strip from the reel and use the power connector to power the strip making sure there is no outage before continuing with the installation. Afterwards, carefully roll the LED strip loosely back into the reel.

10: Connect the red 24VDC power supply wire to the red power connector wire. Connect the black 24VDC power supply wire to the black power connector wire.

11: Place the wire nut connections into the junction box, leaving the power connector free.

E

⑪

POWER CONNECTOR

⑩

DRYWALL

F

MOUNT FLUSH TO CEILING

CEILING

⑫

⑬

⑬

#6 SCREW

BACKER PLATE

BACKER PLATE

JUNCTION BOX

STUD

DRYWALL

**!CAUTION!:** It may be necessary to remove material from the stud, backer plate, Verge channel, or lens to route power to the installation. Consult installation design when considering routing power (see inset).

12: Using the mark locations on the drywall, carefully make a hole to the backplate using the provided square drill with counter sink bit. Ensure the top edge of the backer plate is flush with the ceiling.

13: Secure the backer plate to the studs with the #6 screws using the provided square recess bit.

14: Sand, prime and paint the backer plate and screws before continuing. For best results, use matte paint.

G

CEILING

#6 SCREW

HOLE

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⑯

⑮

⑯

VERGE CHANNEL
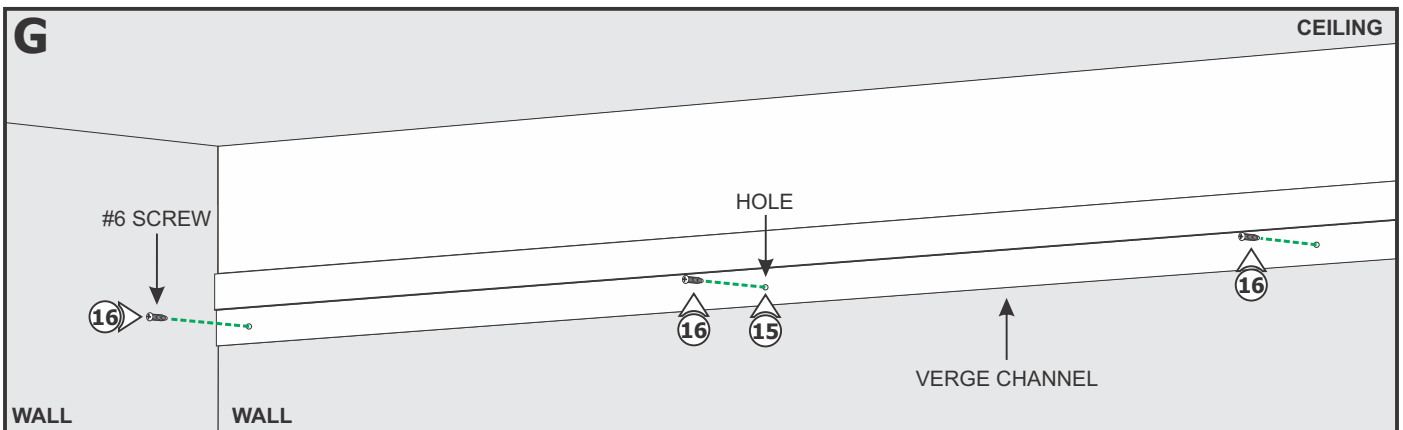
WALL

WALL

15: Using the mark locations on the drywall, carefully make a hole to the Verge Channel using the provided square drill with counter sink bit.

16: Secure the channel to the drywall with the #6 screws using the provided square recess bit. Suggested screw spacing is 6".

H

CEILING

CONTRACTORS TAPE

17

CHANNEL

VIEW THROUGH WALL

DRYWALL
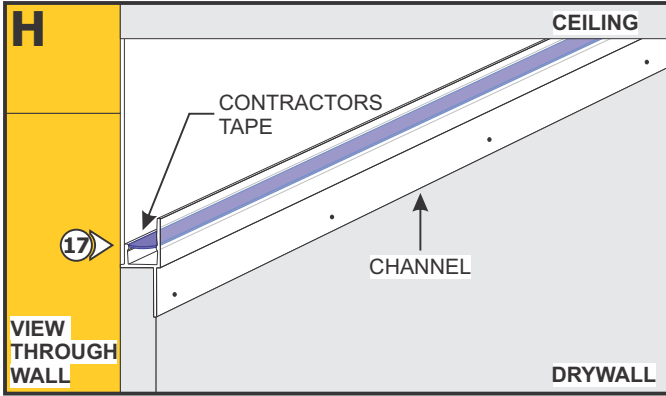
17: Cover up the opening section of the Verge with blue contractors tape to prevent plaster and dust entering inside the channel.

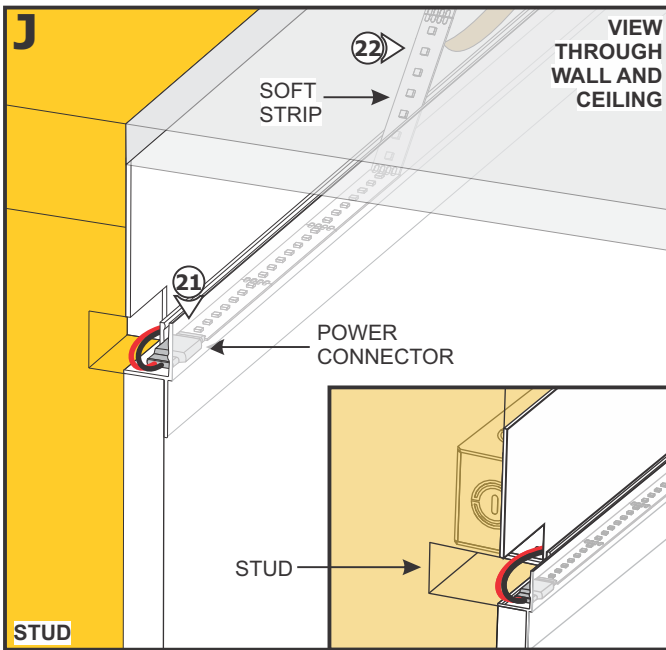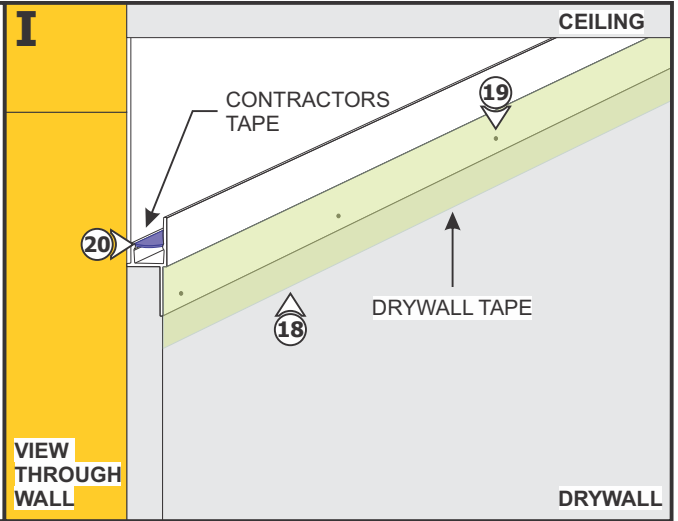**NOTE:** Cover the channel opening with contractor's tape before plastering.

NOTE: For areas with lots of vibration, it is suggested to use Durabond to avoid cracking of plaster.

NOTE: Do Not use premixed joint compound "Soft Mud". No use compuesto para juntas premezclado "Soft Mud".

18: Must apply drywall tape (Ultra-Thin drywall tape suggested) along edges of channel to prevent cracking of plaster after installation. **DO NOT** overlap strips of drywall tape.

19: Plaster the channel flange edge to the wall & fill screw holes (highlighted in green). Finish the wall properly.

20: Remove the blue contractor tape & clean the inside of the channel.

I

CEILING

CONTRACTORS TAPE

19

20

DRYWALL TAPE

18

VIEW THROUGH WALL

DRYWALL

J

VIEW THROUGH WALL AND CEILING
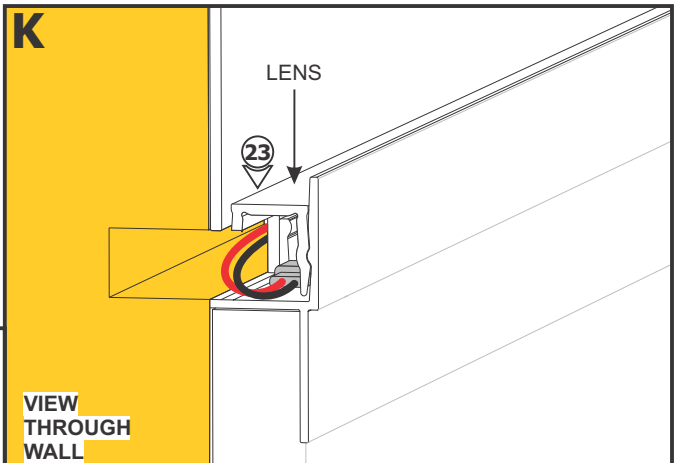
22

SOFT STRIP

21

POWER CONNECTOR

STUD

STUD

!CAUTION!: It may be necessary to remove material from the stud, backer plate, Verge channel, or lens to route power to the installation. Consult installation design when considering routing power (see inset).

21: Align the red wire side of the power connector with the "+24VDC" marking on the soft strip. Push the male connector of the soft strip into the female power connector. Test the soft strip prior to installing the channel.

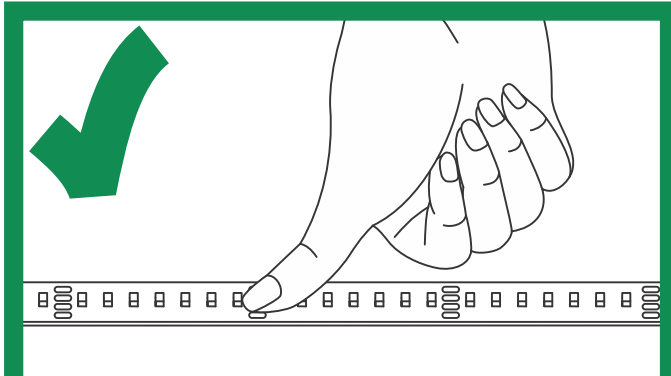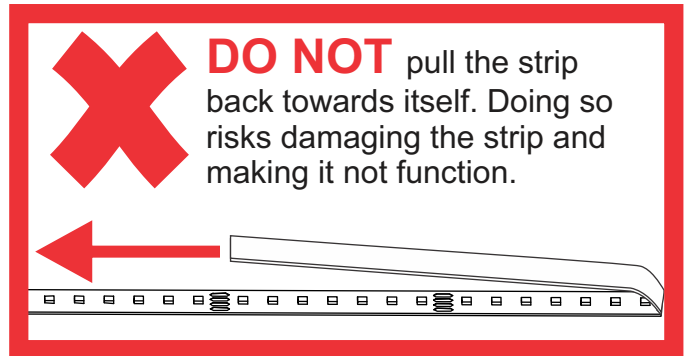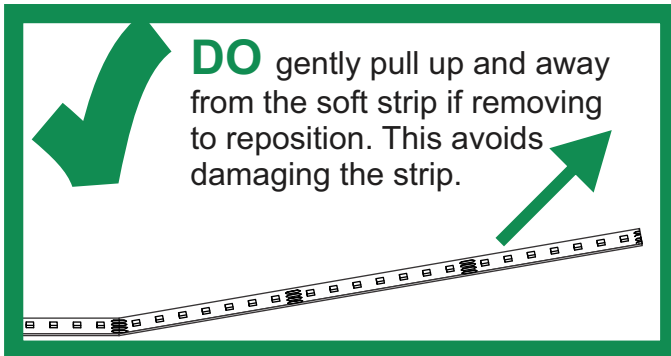**22:** Carefully remove the backing from the LED soft strip, making sure not to remove the tape from the soft strip.

K

LENS

23

VIEW THROUGH WALL

**NOTE:** If installation requires RGB, RGB+W, or Tunable White, refer to wiring diagrams on pages 5-7.

23: Snap the lens into the channel. Ensure the lens is fully seated.

IMPORTANT INFORMATION REGARDING INSTALLATION AND REWORK OF SOFT STRIP LED

DO gently pull up and away from the soft strip if removing to reposition. This avoids damaging the strip.

DO NOT pull the strip back towards itself. Doing so risks damaging the strip and making it not function.
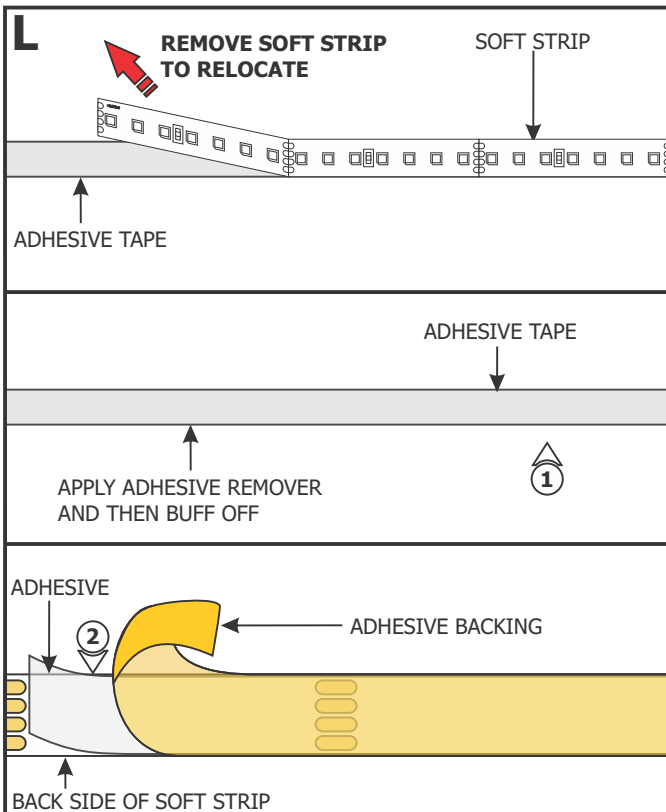
DO only ever use fingers to gently install soft strip to a surface **AFTER** cleaning the surface with alcohol.
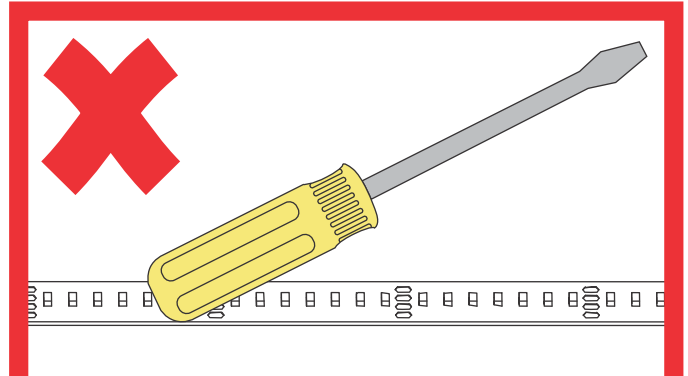
DO NOT use any tool to install soft strip to a surface. This will damage the soft strip component.

Relocating Soft Strip (Optional)

L

REMOVE SOFT STRIP TO RELOCATE

SOFT STRIP

ADHESIVE TAPE

ADHESIVE TAPE

APPLY ADHESIVE REMOVER AND THEN BUFF OFF

①

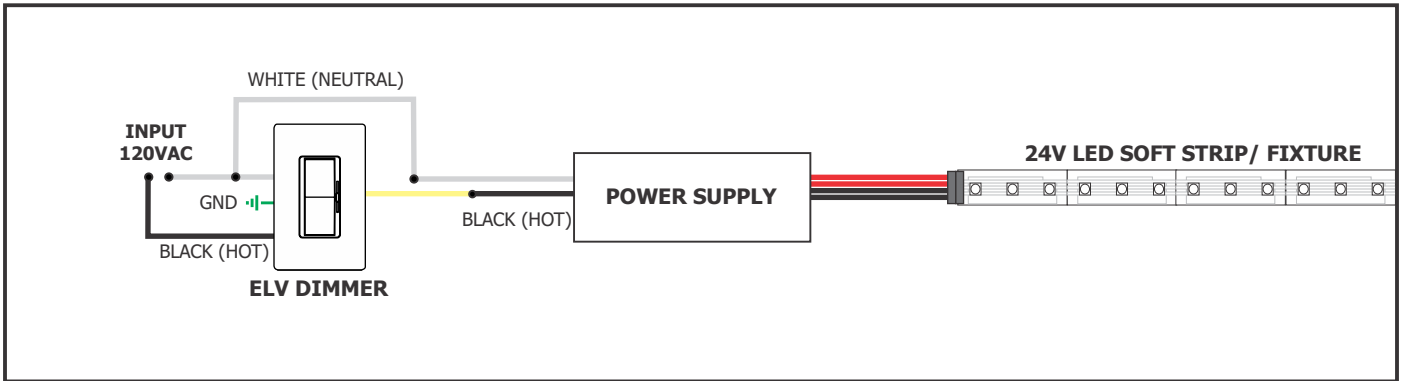ADHESIVE

②

ADHESIVE BACKING

BACK SIDE OF SOFT STRIP

NOTE: If relocating the installed soft strip, make sure that the adhesive tape on back of the soft strip covers the entire strip. The adhesive tape isolates the strip from the installation surface. Damaged or inconsistent adhesive tape may cause the contacts on the back of the strip to come in contact with the conductive heat sink which will cause the strip to short and burn. Call Edge Lighting to get replacement adhesive tape and/or optional aluminum heat sink tape (SS-HR-F).

1: To remove tape residue from back of the strip, apply WD-40, Goo Gone, or a mixture of warm water and lemon oil to the corner of a clean, dry towel. Gently buff the area containing the adhesive residue until it is completely removed.

2: Gently remove a few inches from one side of the tape backing. Attach the adhesive tape to the back of the soft strip and apply moderate pressure to affix the tape. Continue this step a few inches at the time until the entire adhesive tape is attached to back of the soft strip.

3: Refer to steps 21 and 22 to reinstall the soft strip.

Wiring Diagrams

General 24VDC Configuration

WHITE (NEUTRAL)

INPUT
120VAC

GND

BLACK (HOT)

ELV DIMMER

BLACK (HOT)

POWER SUPPLY

24V LED SOFT STRIP/ FIXTURE

Standard RGB Configuration

Using LED Power Supply with RGB Soft Strip & CDP, CTP or CDMX Control

CDP
CONTROLLER

24VDC

CONTROLLER
POWER SUPPLY

N L
LINE

L

N

GND

POWER SUPPLY

DMX CABLE

Ext in-
Ext in+
DMX in +
DMX in -
DMX in shield
LedSync thru+
LedSync thru-
LedSync shield

VDC+
VDC-

DVR-RGB

LED supply +
Group 1 -
Group 2 -
Group 3 -
Group 4 -

RGB LED
SOFT STRIP/ FIXTURE
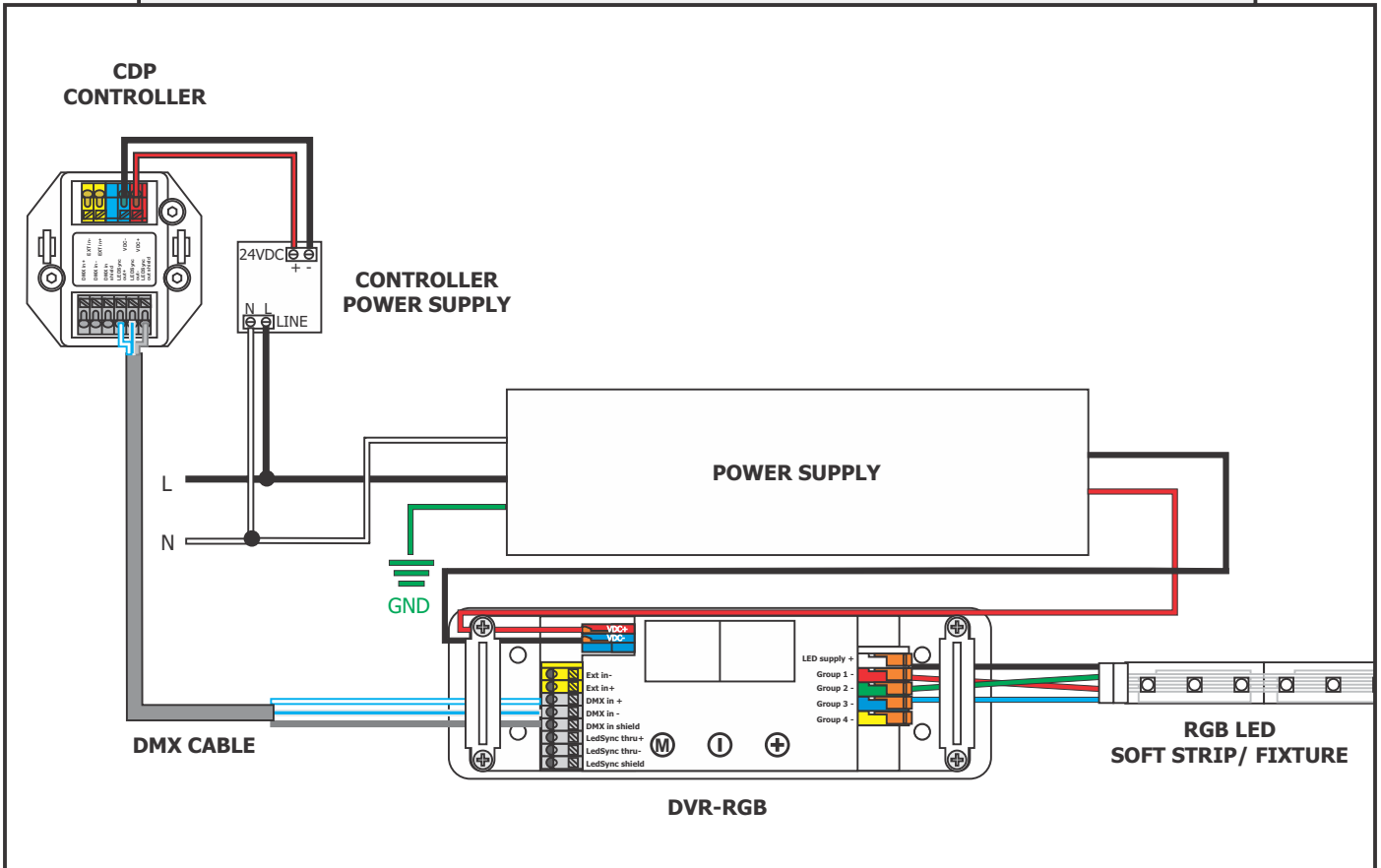
RGB+W Configuration

Using LED Power Supply with RGB+W Soft Strip & CDP, CTP or CDMX Control

CDP
CONTROLLER

24VDC
+ –

CONTROLLER
POWER SUPPLY

N L
LINE

POWER SUPPLY

L

N

GND

VDC+
VDC+

Ext in–
Ext in+
DMX in +
DMX in –
DMX in shield
LedSync thru+
LedSync thru–
LedSync shield

LED supply +
Group 1 –
Group 2 –
Group 3 –
Group 4 –

DMX CABLE

M   I   +

DVR-RGB

RGB+W LED
SOFT STRIP/ FIXTURE

Tunable White Configuration

Dual Power Supplies Controlled Via Individual ELV Dimmers

ELV DIMMER
WHITE (NEUTRAL)

INPUT
120VAC

GND

BLACK (HOT)

HOT

POWER SUPPLY

+24VDC
RED

-24VDC
BLACK

WHITE (NEUTRAL)

INPUT
120VAC

GND

BLACK (HOT)

ELV DIMMER

HOT

POWER SUPPLY

+24VDC
RED

-24VDC
BLACK

TUNABLE WHITE LED
SOFT STRIP/ FIXTURE

Tunable White Configuration

RGB Power Supply with DMX Driver

CDP/CTP or other DMX Signal From Any Compatible Controller

L N

LED SYNC OUT +
LED SYNC OUT -
LED SYNC OUT SHIELD

POWER SUPPLY

DMX CABLE

+ RED
- BLACK

Ext in-
Ext in+
DMX in +
DMX in -
DMX in shield
LedSync thru+
LedSync thru-
LedSync shield

DRIVER

M ⊖ ⊕

LED supply +
Group 1 -
Group 2 -
Group 3 -
Group 4 -

If using a CDP Color Dial, configure your CDP to Warm White mode using DIP switches and follow CDP operating instructions:

O N
1 2 3 4 5 6 7

TUNABLE WHITE LED SOFT STRIP/ FIXTURE