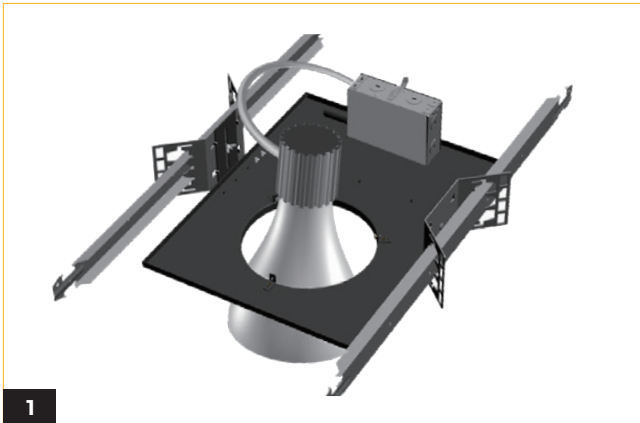


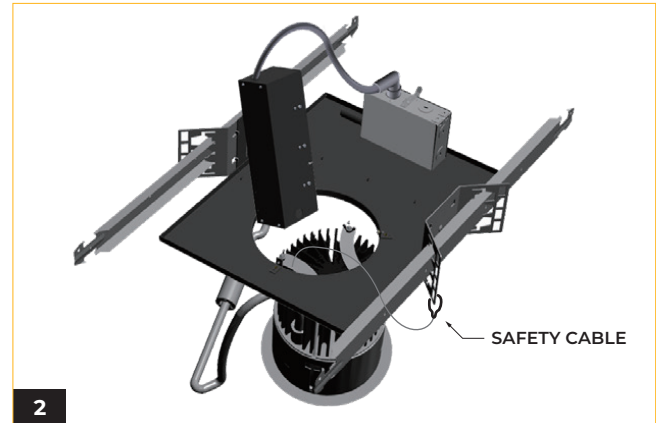
IMPORTANT SAFETY INFORMATION READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- Before wiring to power supply and during servicing or relamping, turn off power at fuse or circuit breaker.
- All servicing or relamping must be performed by qualified service personnel.
- Product must be grounded to avoid potential electric shock or other potential hazard.
- Product must be installed at locations and heights, in a manner consistent with its intended use, and in compliance with Electrical Code and local codes.

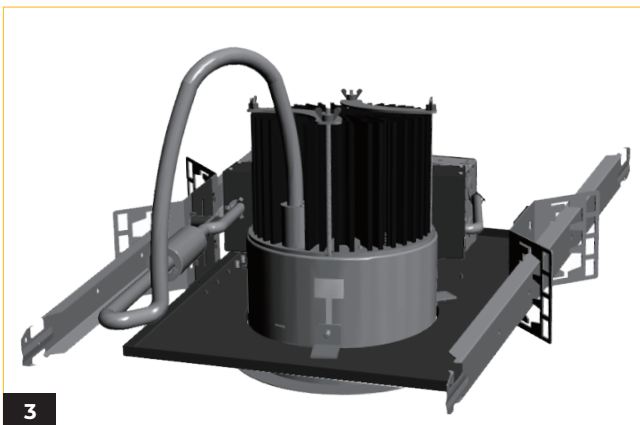
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE



- 1
- A. Remove existing reflector and lamp, open junction box cover and disconnect the wiring.
- B. Remove reflector retention clips or hardware.
- C. Retain existing mounting components (such as frames, butterfly brackets, hanger bars, junction box).



- 2
- A. Detach trim and reflector from LED module.
- B. Hang LED module to existing frame with safety cable.
- C. Place retrofit power box through ceiling opening.
- D. Snap flexible conduit from power box into junction box. Place power box away from ceiling opening.
- E. Make electric connection in junction box from power box and snap on junction box cover.



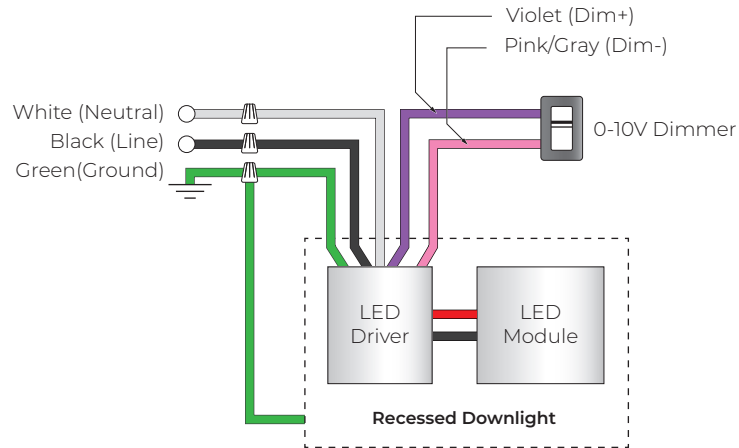
- 3
- A. Push LED module up through existing frame until flush with ceiling opening.
- B. Insert new mounting clips and tighten all screws.



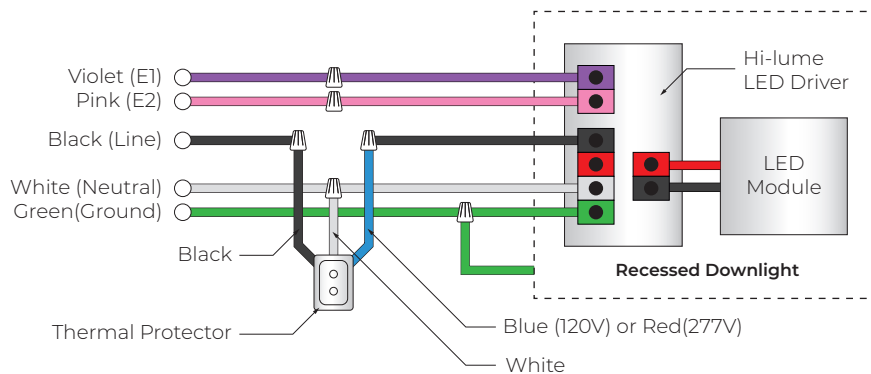
- 4
- A. Connect safety cable to trim and push reflector into the frame to ensure the trim is flush to the ceiling.

WIRING DIAGRAM

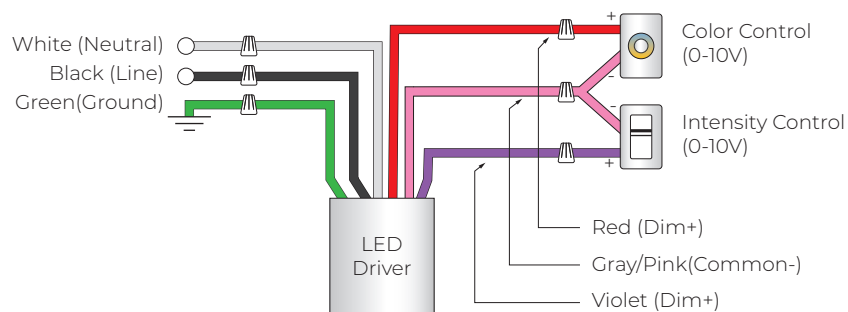
STV / SPV 0-10V



LDE1

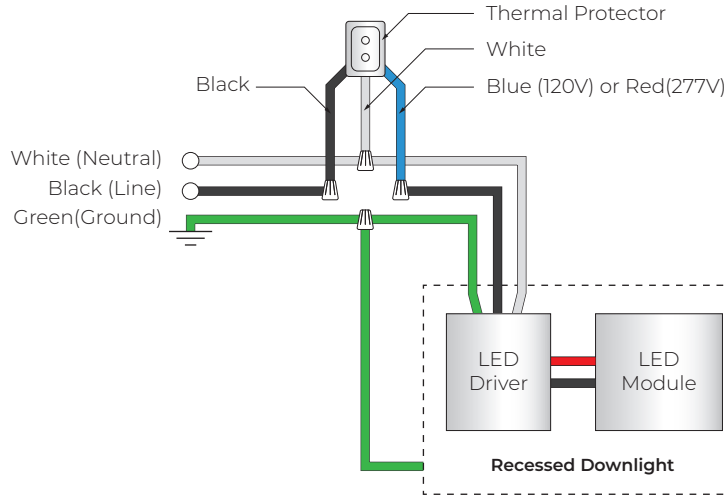


SPV 0-10V (Tunable White)

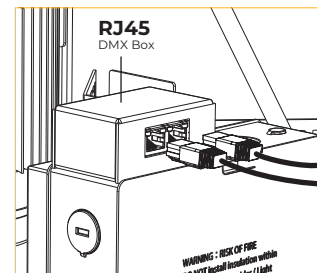
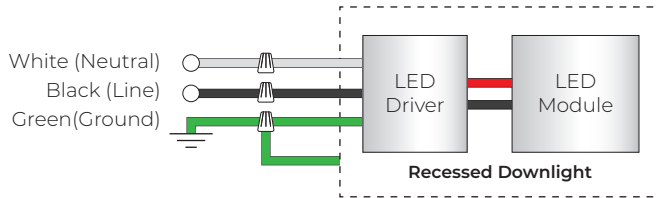


WIRING DIAGRAM

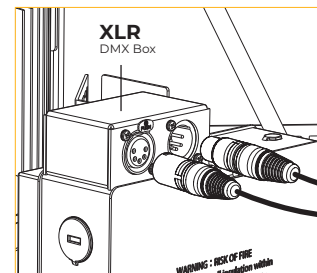
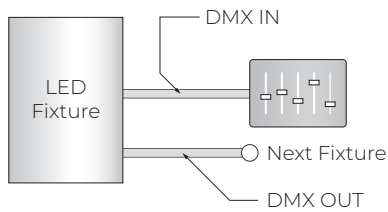
TRC



DMX



Connect DMX by using a standard shielded CAT5/6 cable.

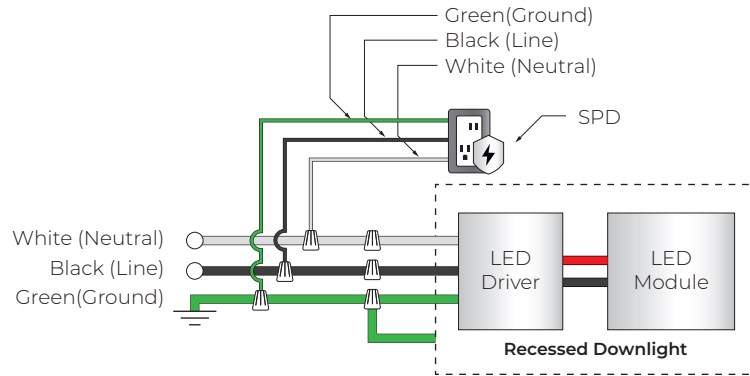


Connect DMX by using a standard DMX512 XLR cable with 5 pin in/out connector (by others).

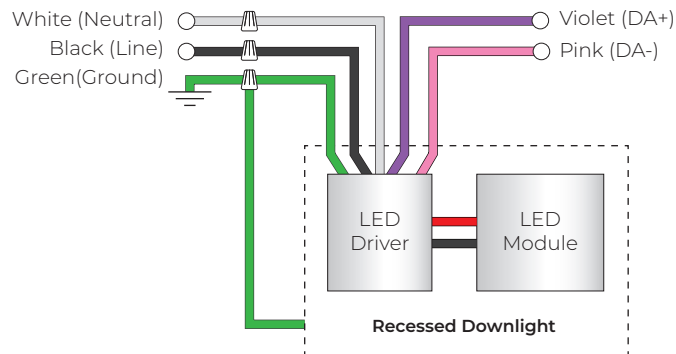
***The last fixture has to be terminated with a DMX Terminator (by others).**

WIRING DIAGRAM

SPD



DALI



NOTES

Application note : Wiring for DMX/RDM lighting systems

DMX/RDM is a robust and reliable system for lighting control. However, if not implemented correctly, problems can arise such as random flashing of lights, erratic operation and delays in responding to commands. This document explains the best practices in DMX wiring.

Important things to consider are:

1. DMX is a three-wire system. Use all three!
2. DMX is based on the EIA-485/RS-485 standard.
3. Always use cable specifically designed for DMX / RS-485. These cables have an impedance of 120Ω and a low capacitance. For instance : Belden 9729 or Belden 9841.
4. DMX must be terminated with a 120Ω resistor to prevent reflections.
5. A daisy chain topology should be used.
6. After 32 unit loads a repeater/booster should be used. (Important : For tunable white fixtures, After "32" unit loads a repeater/booster should be used.)
7. Keep cabling below 200 meters between the controller and the last driver.
8. It is generally considered good practice to provide separate DMX in and DMX out / DMX Thru connections to your fixture to aid in installation. This can be in the form of pigtailed, RJ-45 connectors or 5-pin XLR connectors.
9. Use twisted pair cables with an impedance of 120Ω and a low capacitance.
10. UTP Cat5 or Cat6 network cable can also be used but have a slightly lower impedance of 100Ω .
11. If shielded cable is used, only connect shield to ground on one side (typically, the controller should have its shield terminal connected to ground).
12. Not following the above recommendations may seem to work at first, but can cause problems. Sometimes after weeks of seemingly normal operation.