Larson Electronics LLC **www.larsonelectronics.com**
9419 E US HWY 75, Kemp, TX 75143 - P: (800) 369-6671 - F: (903) 498-3364 - E: sales@larsonelectronics.com

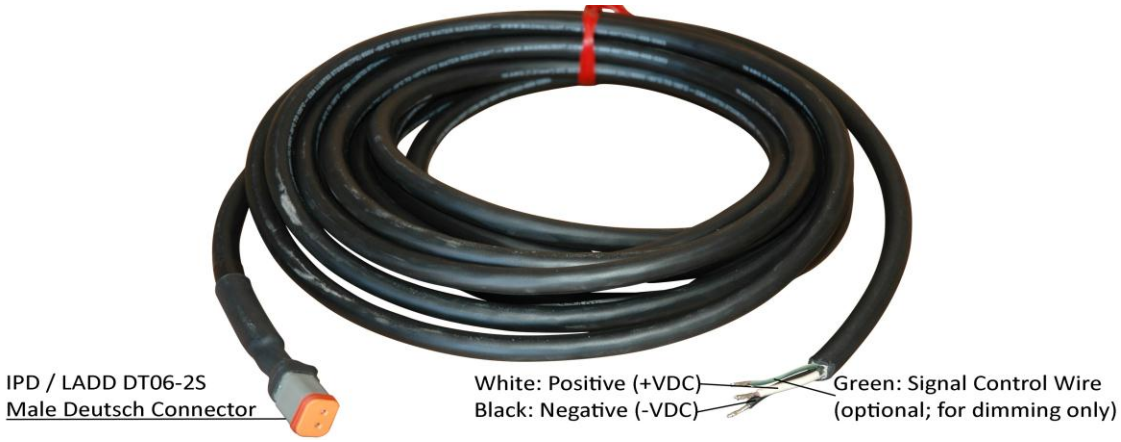
LED Light Wire Harness Installation Instructions

The wiring harness supplied with Larson Electronics' LED lights is assembled with a twenty foot SOOW cable with a male Deutsch connector on one end of the cable. A two conductor or three conductor cable is supplied with the light, depending on the series of LED light purchased.

WARNING: *These LED light bars operate on low voltage DC.* ***DO NOT apply 120-277V AC high voltage power to these lights.*** *Applying high voltage (i.e. plugging lights directly into a wall outlet)* ***WILL*** *fry the internals of the light and will void the warranty. To power these lights from a high voltage power source, an AC-DC power transformer is required. Larson Electronics DCP series weatherproof power transformers will allow these LED light bars to operate from high voltage AC power sources.*

1. To connect the wiring harness to the spotlight, push the male Deutsch connector located on the end of the cable into the female Deutsch connector protruding from the light.
2. Take the blank end of the cable and ***carefully*** strip back about one inch of the outer jacket to expose the conductor wires inside the cable. The cable consists of two or three wires, depending on the series of light purchased.
    a. The **white** wire is the positive (+) power wire.
    b. The **black** wire is the negative (-) ground wire.
    c. The **green** is a single control wire (*for LEDP series lights only*) for dimming applications. This wire is for use with pulse width modulators to dim the LED light, Larson Electronics' part number PWM-SGV (sold separately).
    DO NOT apply power (+) **OR** ground (-) to this wire! Doing so may damage the light and will void the manufacture warranty.
3. Once the white (+) and black (-) wires have been securely connected to their mates, power will be provided to the LED light via the provided low voltage power source.

Additional or replacement cords can be ordered from our website. We offer replacement wiring harnesses for the LED lights in various lengths to meet the customer's requirements, including a six inch wire harness (LEDWH-6), 20 foot harness (LEDWH-20), 30 foot harness (LEDWH-30), and 50 foot harness (LEDWH-50). We also offer 16 foot coil cords with a cigarette plug (C-16-CC-CP), 21 foot cords with ring terminals (C-21-RT), 16 foot cords with battery clamps (C-16-BC), and 16 foot straight cords with cigarette plugs (C-16-CP).



Larson Electronics LED Series LED Light Bar

Mechanical Specification

- This LED light is multi-voltage capable, meaning it will operate on any voltage within the low voltage (VDC) specified for the specific light.
  These lights are terminated with a Deutsch IPD/LADD DT04-2P connector.
  The matting connector plug is DT06-2S.

- All electronics and internal. Each light has a simple 2 wire hook up:
  Red being the positive (+12V) power wire
  Black being the negative/ground (-12V) wire
  The positive (+) and negative (-) wires are marked on the sides of the terminating Deutsch connector.

- The LEDP3W, LEDP5W, and LEDP10W series lights come with an optional use green/yellow dimmer control wire. This wire is NOT required for normal operation.
  This control wire is used ONLY for dimming purposes.
  DO NOT connect the control wire to battery power or ground. Doing so may cause damage to the light and will void the warranty.
  The control wire is designed for use with a pulse with modulator (PWM controller) and is sold separately.

