

## General requirements

- Tip RJ45 TIA568-B each end & test.
- ID all wires at both ends.

Wire ID recommendation:

1. Number each room.
2. Number each wire in each room restarting with 1 in each room.
3. ID is [room#][wire#]. Room 12, wire 1 is ID 1201.
4. When switch legs or jumps are after the home run, use -B, -C, etc on jumps.

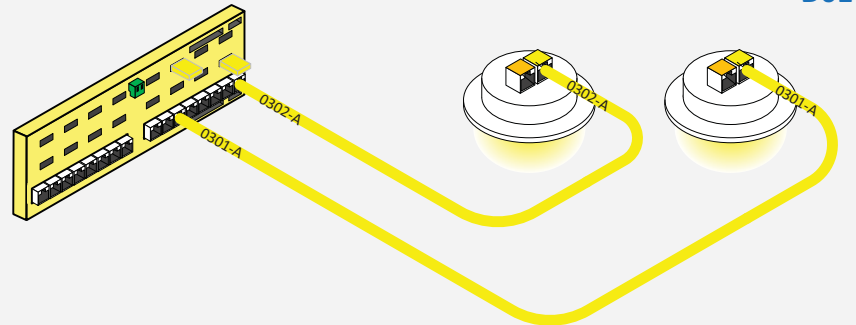
## Wiring to lights

### APPLIES TO:

Constant Current Downlights

### INSTRUCTIONS:

- Yellow home-run Cat5 from PDM to each light.
- Tip RJ45 TIA568-B each end & test.
- ID each wire at both ends.
- Wire inside fixture Can (if used) before tipping.



D01

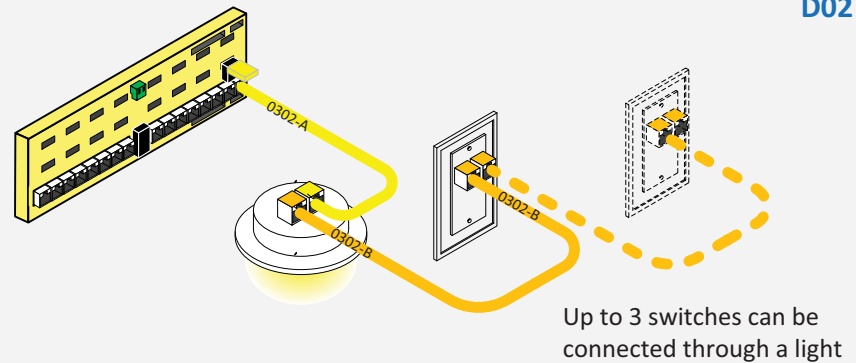
## Wiring to a switch

### APPLIES TO:

Switches controlling a zone of lights.  
Light must have a Cat5 home-run to the PDM.  
Switch(es) must control the light it is connected through (applies to LibRE system only).

### INSTRUCTIONS:

- Orange Cat5 from light to the switch.
- Tip RJ45 TIA568-B each end & test.
- ID each wire at both ends.
- Wire inside fixture Can (if used) before tipping.



Up to 3 switches can be connected through a light

D02

## Wiring 4 or more Switches

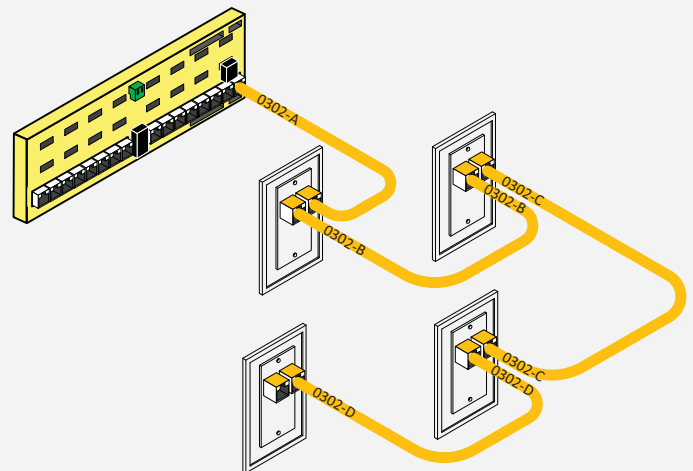
### APPLIES TO:

Multiple switches controlling a single light zone.

### INSTRUCTIONS:

- Orange Cat5 from PDM to first Switch.
- Orange Cat5 from Switch to Switch.
- Tip RJ45 TIA568-B each end & test.
- ID each wire at both ends.

Any switch may be home-run and Type 7 splitter/combiners used at the PDM.



D03

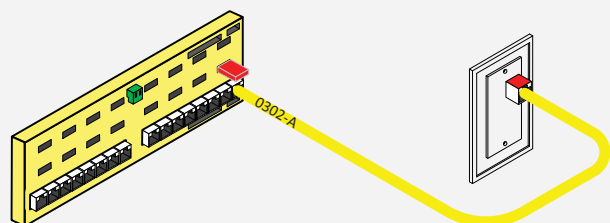
## Wiring to USB power ports

### APPLIES TO:

USB jacks up to 40W use Cat5.  
USB-PD jacks (100W) use LCbus wire (see page 4).

### INSTRUCTIONS:

- Yellow Cat5 from PDM to USB plate marked with Red label at end or LCbus wire.
- ID wire at both ends.



D04

## Special Applications

These applications require additional attention and design.

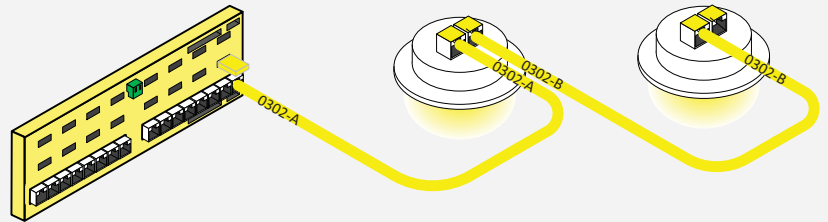
### Wiring to Lights UNDER 6W

**APPLIES TO:**

Constant-Current Downlights UNDER 6W each. TWO lights per home-run. Confirm with light specifications.

**INSTRUCTIONS:**

- Yellow home run Cat5 from PDM to light #1.
- Yellow Cat5 from light #1 to Light #2.
- Tip RJ45 TIA568-B each end & test.
- ID each wire at both ends.



D05

A switch can be connected to the end light. Connecting a switch to “middle” light requires a Type 7 RJ45 splitter.

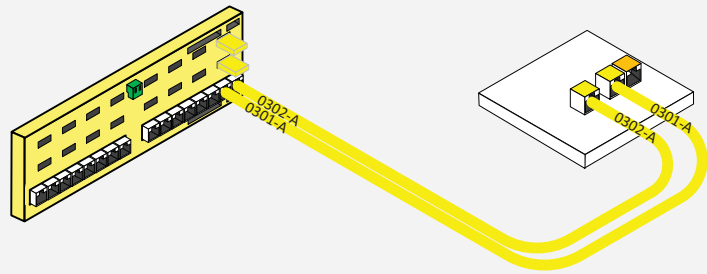
### Wiring to 2-driver Lights

**APPLIES TO:**

Constant Current lights with 2 LED arrays including 2x2 panel lights.

**INSTRUCTIONS:**

- 2x Yellow home-run Cat5s from PDM to the light.
- Tip RJ45 TIA568-B each end & test.
- ID each wire at both ends.



D06

A switch can be connected to the SIB out port or use a Type 7 RJ45 splitter.

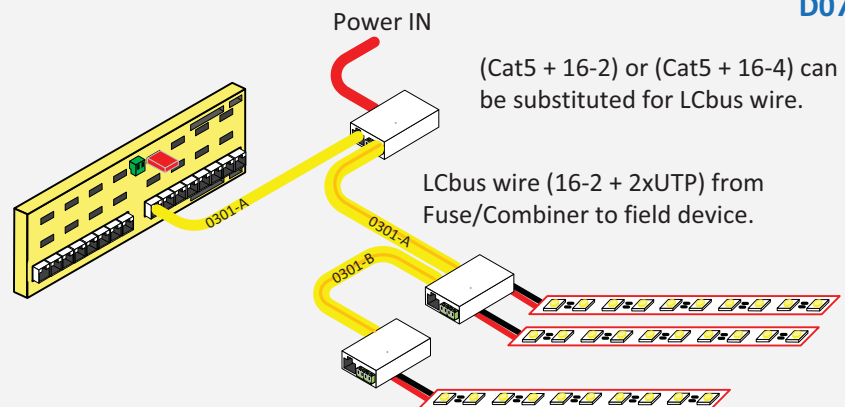
### High-power, Constant Voltage fixtures (LCbus)

**APPLIES TO:**

High power Constant Voltage fixtures, Constant Voltage LED strips, chandeliers, and fixtures requiring MORE than 1.20 Amps.

**INSTRUCTIONS:**

- LCbus wire from POWER PANEL to fixture.
- Cat5 from PDM to POWER PANEL.
- If multiple CV fixtures, run LCbus between fixtures.
- ID field wires at both ends.



D07

(Cat5 + 16-2) or (Cat5 + 16-4) can be substituted for LCbus wire.

LCbus wire (16-2 + 2xUTP) from Fuse/Combiner to field device.

Orange Cat5 wire for switch(es) can be connected to any LCbus SIBs.