

Important Change: High & Low Voltage Wire Colors

Changes in Lighting Control Association (LCA) wiring standards

General wiring overview

- **Device dimming:** Confirm DIM(+) and DIM(-) wires are plugged into correct terminals on the header
- **Low voltage connections: no more gray**
 - Low voltage power wires: usually red (+) & black (-)
 - 0-10V: dimming are gray/pink (-) & purple (+)
 - CCT: gray/pink (-) and orange (+)
 - See screenshot from [Lighting Controls Association](#) below for details

■	BLACK - Line
□	WHITE - Neutral
■	RED - Load/Switched Load
■	PURPLE - 0-10V Dim+ #1
■	PINK - 0V Dim-
■	ORANGE - 0-10V Dim+ #2 CCT
■	GREEN - Ground



- **Permanent damage:** Avi-on products are highly tolerant of mis-wiring, however, the following mistakes are likely to result in permanent damage
 - Short circuiting the load output wire to common/ground
 - Wiring the low voltage DC leads to high voltage primaries
- **IFAC application:** common and load wires are reversed. Please re-wire correctly
 - Behavior: the light powers on when energized and communicates with the App (or other devices) normally, but after turning the light off, it stops communicating with the App or other devices
 - Because of energy monitoring functionality, the common wires on the IFAC are not interchangeable
- **XFAC application:** high voltage are black & white with either a pink or red AC load wire. Mis-wiring can result in permanent damage
 - Note that wiring standards have changed, and new XFACs will have pink and violet Channel-1 dimming wires as well as red driver line wire
 - Make sure to match your hardware with either of the below wire colors and wire to load/driver accordingly
- **Review wiring diagrams** & how to videos at [Avi-on.com/Resources](#)

XFAC Wire Color Change			
Older XFAC		Newer XFAC	
Driver Line	■	Driver Line	■
AC Neutral	□	AC Neutral	□
AC Line In	■	AC Line In	■
Class 2	CH 1+	■	■
	CH1-/CH2-	■	■
	CH 2+	■	■
Class 2	CH 1+	■	■
	CH1-/CH2-	■	■
	CH 2+	■	■

Scan QR for product data sheets and wiring diagrams >>>

