

8./ Drill connector wire hole into letter or raceway. Hole for connector wire should be off center and to the middle of the can. Place protective rubber grommet on hole. (⇒Pic 12)

9./ Insert wire through the grommet to go through wall or into raceway. (⇒Pic 13)

10./ INSTALLING JUMPER CONNECTOR

Some letters such as E or A require multiple strips of HYPERION R-Lite System™. In cases like this use the jumper connector to connect two separate runs as shown on picture. (⇒Pic 14 ⇒Att.4)

- In specified letter attach (1) jumper end anywhere on HYPERION strip and secure with connector holder. Plug in removed LED board.
- Attach other jumper end to separate HYPERION strip contained inside the same channel letter and secure with connector holder. Plug in removed LED board.
- For runs exceeding 12ft you **must use** a separate power connector for each run.
- Attach power connector to longer strip and secure with connector holder.
- You must connect jumper in the best possible area trying to avoid tight areas or severe bending or stretching of jumper. Please plan ahead when using jumper connector during installation of multiple strips in the same letter.

11./ Secure all wires with self adhesive wire clamp. (⇒Pic 11 ⇒Att.4)

C./ LOW VOLTAGE WIRING USING HRL-06-PFC-96 POWER UNIT

1./ Place the power unit between two (2) selected load groups as shown in the schematic drawing in the attachment. (⇒Att. 1). Run a pair of 10 or 12 AWG Class 2 rated power wires from the power unit to the ends of the selected groups. (⇒Att. 1). 12 AWG Class 2 wires can be purchased from Lumificient Technologies in 50 feet spools.

Note: Using higher than 12AWG wire will result in increased voltage drop.

Note: All secondary wiring must comply with Article 725 of the 2002 National Electrical Code (NEC). Class 3 or PLTC wire can be used as a substitution of Class 2 wire. Please refer to NEC 725.61 "Cable Substitution Hierarchy".

2./ Connect power connector leads to power wires (parallel electrical connection) by using "tap and run" IDC connectors. (⇒Pic 15, 16 ⇒Att. 1)

Note: Do not use wire nuts for connecting power connectors to power wires!

3./ Use wire nuts ONLY to insulate end of the power wires. (⇒Pic 17)

4./ Secure power wires inside the wireway or on the wall with wire clamps.

Note: All free hanging wires must closely follow the building structure and must be supported by wire clamps every 4.5ft and at least 1ft from the power unit.

5./ Connect power wires to power unit terminal 1 and 2. (⇒Pic 18)

Note: For better power distribution divide load between terminal 1 and 2.

Important: Minimum load per terminal is 10 linear ft, maximum load 35 linear ft.

6./ Secure power unit inside of the raceway or on the wall with four screws.

7./ Connect the power unit to 120VAC junction box..

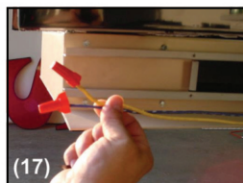
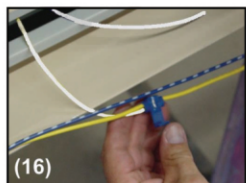
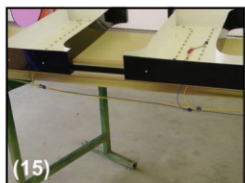
Note: HRL-06-PFC-96 power unit is equipped with 1/2" ENT conduit fitting. It is required to use 1/2" nonmetallic conduit between the junction box and the power unit.

8./ Repeat steps 1 - 7 for all load groups.

9./ Verify if disconnect switch is present. National Electrical Code (NEC) requires disconnect switch with all electrical signs. If disconnect switch is not present, it must be installed between main breaker and first power unit.

10./ Test the sign by turning main power on.

Note: Do not touch any metal parts while testing the sign.



D./ LOW VOLTAGE WIRING USING HRL-06-PFC-24 POWER UNIT

1./ Place the power unit in the middle of the selected load group as shown in the schematic drawing in the attachment. (⇒Att. 2). Run a pair of 10 or 12 AWG Class 2 rated power wires from one side to another side of the load group. (⇒Att.2). 12AWG Class 2 wires can be purchased from Lumificient Technologies in 50 foot spools.

Note: Using higher than 12AWG wire will result in increased voltage drop.

Note: All secondary wiring must comply with Article 725 of the 2002 National Electrical Code (NEC). Class 3 or PLTC wire can be used as a substitution of Class 2 wire. Please refer to NEC 725.61 "Cable Substitution Hierarchy".

Note: For wet locations, HRL-06-PFC-24 power unit must be installed in NEMA 3R enclosure or inside of the electric sign (⇒Pic 19). Exit point of low voltage wiring must be secured against water entry into the box (rain tight bushing, cord grip etc.).

For dry or damp locations, HRL-06-PFC-24 power unit must be installed in NEMA 1 rated enclosure or inside of all metallic enclosure or raceway (⇒Pic 20).

2./ Connect power connector leads to power wires (parallel electrical connection) by using "tap and run" IDC connectors. (⇒Pic 15, 16) .(⇒Att. 2).

Note: Do not use wire nuts for connecting power connectors to power wires!.

3./ Use wire nuts ONLY to insulate end of the power wires. (⇒Pic 17)

4./ Secure power wires inside the wireway or on the wall with wire clamps.

Note: All free hanging wires must closely follow the building structure and must be supported by wire clamps every 4.5ft and at least 1ft from the power unit.

5./ Connect blue and brown wires from the HRL-06-PFC-24 power unit to power wires by using "tap and run" IDC connectors. (⇒Att.2)

Note: Important: Maximum load is 25 linear feet per power unit.

Note: Do not connect outputs in series or parallel

6./ Secure power unit inside of electrical enclosure, channel letter or raceway.

7./ Connect the power unit to 120VAC junction box..

Note: It is required to use UL rated metallic or nonmetallic conduit between the junction box and the power unit enclosure.

8./ Repeat steps 1 - 7 for all load groups.

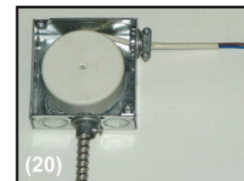
9./ Verify if disconnect switch is present. National Electrical Code (NEC) requires disconnect switch with all electrical signs. If disconnect switch is not present, it must be installed between main breaker and first power unit.

10./ Test the sign by turning main power on.

Note: Do not touch any metal parts while testing the sign.

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