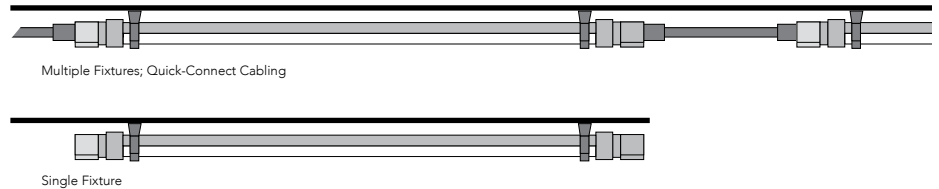




**CLASS-1
DIV-2
RATED**

**CLASS-2
DIV-2
RATED**



HLX INSTALLATION MANUAL PAGE 1

WARNING:

To reduce the risk of ignition of hazardous atmospheres, disconnect the luminaire from the supply circuit before opening. Keep tightly closed when in operation.

Pour réduire le risque d'inflammation des atmosphères dangereuses, déconnectez le luminaire du circuit d'alimentation avant de l'ouvrir. Gardez bien fermé lors de l'utilisation.

NOTES:

- Fixtures must be installed by a qualified electrician in accordance with all national and local electrical and construction codes and regulations. Please read through this document entirely before beginning the installation.
- Ensure the last fixture in every daisy chain is capped. Each leader cable is packaged with an end cap. Failure to cap the fixture will result in water ingress.
- White connector = power input. Mate with white plug on leader cable/jumper cable.
- Longer jumper cables may be sleeved through PVC (1"), EMT or Wire Mold if desired.

1. Confirm All Components Received

A.) Supplied Materials

- HLX Series Luminaire(s)
- HLX 48V Power Supply(s)
- Jumper Cable(s) if applicable
- Leader Cable(s) with End Cap(s)
- Mounting Clips
- Liquid-tight Cable Glands

B.) Required Materials

- Mounting Hardware (depending on mounting surface)

HLX INSTALLATION MANUAL PAGE 2

2. Verify Electrical Plan & Power Supply Load

Verify the power supply, input voltage, and maximum load, using the tables below.

Power Supply	Enclosure	Input Voltage*	Max Load Standard Output (SO)	Max Load High Output (HO)
HLX-PSU-600 (600W)	IP67 (Indoor/Outdoor)	120-277VAC	80 Feet	48 Feet
HLX-PSU-480 (480W)	IP67 (Indoor/Outdoor)	120-277VAC	64 Feet	40 Feet
HLX-PSU-320 (320W)	IP67 (Indoor/Outdoor)	120-277VAC	40 Feet	28 Feet
HLX-PSU-240 (240W)	IP67 (Indoor/Outdoor)	120-277VAC	32 Feet	20 Feet
HLX-PSU-120 (120W)	IP67 (Indoor/Outdoor)	120-277VAC	16 Feet	8 Feet
HLX-PSU-80 (80W)	IP67 (Indoor/Outdoor)	120-277VAC	12 Feet	6 Feet

*Please note minimum input is 120V. This is required to run at full load.

Length & Output	Fixture Watts	Fixtures Supported per Power Supply					
		PSU-80	PSU-120	PSU-240	PSU-320	PSU-480	PSU-600
HLX8 - SO	50 W	1	2	4	5	8	10
HLX6 - SO	37 W	2	3	6	7	9	10
HLX4 - SO	25 W	3	4	8	10	13	15
HLX2 - SO	12 W	6	8	14	20	22	22
HLX8 - HO	80 W	0	1	2	3	5	6
HLX6 - HO	60 W	1	1	3	4	7	8
HLX4 - HO	40 W	1	2	5	7	9	9
HLX2 - HO	20 W	3	4	9	13	16	16
HLX8 - SHO	115 W	0	1	1	2	3	4
HLX4 - SHO	58 W	1	2	3	5	7	8

Table 2.1: Power Supply Specifications

Load/Run Length	1-50 Feet	50-100 Feet	100-150 Feet
1-3 Lights (4A)	16AWG	14AWG	12AWG
4-6 Lights (8A)	14AWG	12AWG	10AWG
7-9 Lights (12A)	12AWG	10AWG	8AWG

Table 2.2: Wire Gauge Table

In some installations, the leader cable must be extended to reach from the fixtures to the power supply. The wire gauge required will depend on the load and the run length (see above). This will limit the voltage drop to ~3V.

HLX INSTALLATION MANUAL PAGE 3

3. Mount Fixtures

HLX series fixtures are typically surface mounted (ceilings, walls, etc).

Each HLX8 and HLX6 fixture requires three mounting clips - one near each end, and one in the middle. Each HLX4 and HLX2 uses two mounting clips, one near each end.

Mark the clip locations and verify proper placement of the fixtures throughout the area to be lit. If all looks good, secure the mounting clips to the wall or ceiling using proper mounting hardware.

After securing the clips, snap the fixtures into position by pressing them up into the mounting clips. Ensure that the white connector is facing toward the cable input (leader cable or jumper) on all fixtures.

4. Mount Power Supplies

The (80W, 120W, 240W, 320W, 480W and 600W) power supplies are certified type HL and rated for hazardous location use. Power supplies are field-installable and are designed to be installed without the use of an additional enclosure or wiring boxes. Placing the supplies in an additional enclosure may prevent proper cooling and cause them to overheat.

In Class 2, high dust environments power supplies should be wall mounted in a vertical orientation to minimize dust buildup and ensure proper cooling.

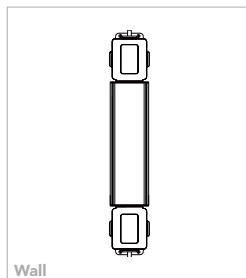


Figure 4.1: Mounting Orientation in C2D2 Environments

5. Connect Fixtures Together

Install the jumper cables between the mounted fixtures. The cables may be sleeved through PVC, EMT, or wiremold if desired.

6. Attach the End Cap

Ensure the last fixture in every daisy chain is capped. Each leader cable is packaged with an end cap. Failure to cap the fixture will result in water ingress.

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7. Connect the Leader Cable and Power Supply

Depending on the distance between the power supply and the first fixture, the leader cable may have to be extended with proper gauge of wire. Please see table 2.2.

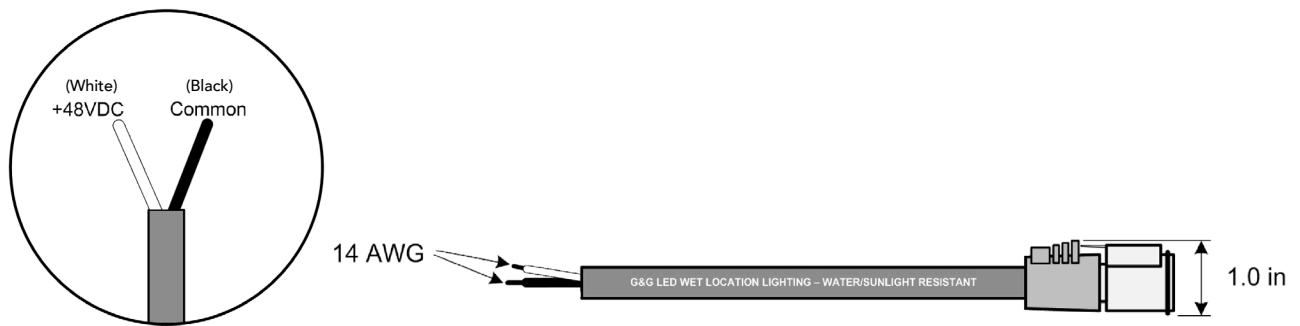


Figure 7.1 and 7.2: Leader Cable Dimensions and Wiring

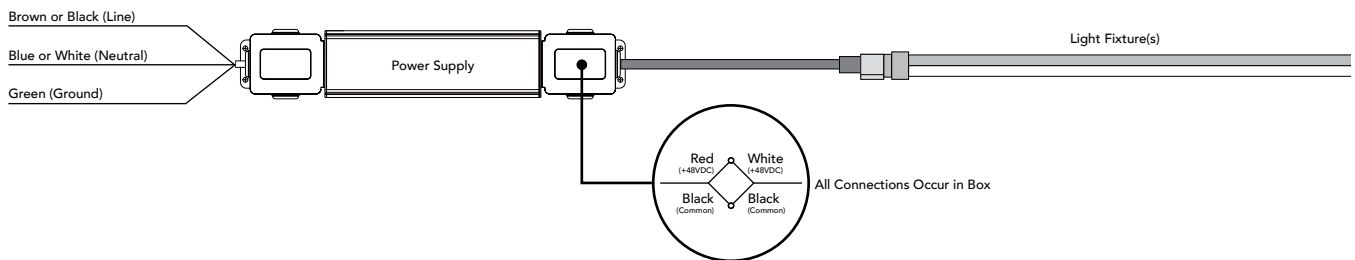


Figure 7.3: Standard Power Supply Connection

8. Turn the Power ON

If you have any questions throughout the process, please do not hesitate to contact G&G Support: 800-285-6780 x2