Proton Top Eco | Neon Flex

Neon Flex is a durable and flexible LED lighting system that delivers continuous, uniform light output with excellent brightness and low power consumption. Its robust construction and flexible design make it ideal for curved installations, architectural outlines, signage, and creative lighting designs.

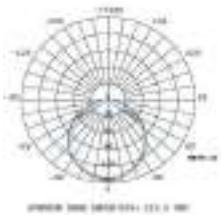
Technical Details

Power : 14.4W/m	
Lumen Output :	Total Lumen 317lm/m R =32lm Green= 120lm Blue =25lm White= 140lm
CRI :≥80	
Beam Angle : 120°	
CCT : RGBW (6500K)	
Input Voltage : DC 24V	
Driver : Remote	
Material : Silicone	
Finishing Color : White	
Size : W16 x H16 mm	
IP Rating : IP67	
Led/mtr:60led	
SDCM:3 Step	
Pixel:10 pixel/mtr	

Chip Details

Led Chip : Lumileds

Light Distribution



Light Performance

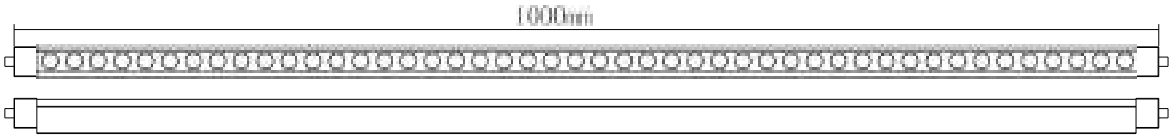
Order Options

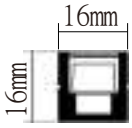
Model Code	Power	Lumens	CCT	CRI	Beam	Finish	Size	Accessories
EL-KMXTB-14	14.4W/m	Total Lumen 317lm/m R =32lm Green= 120lm Blue =25lm White= 140lm	RGBW (6500K)	≥80	120°	White	W16 x H16 mm	Aluminium Profile IP67 connector Mounting Clips

Mounting Options

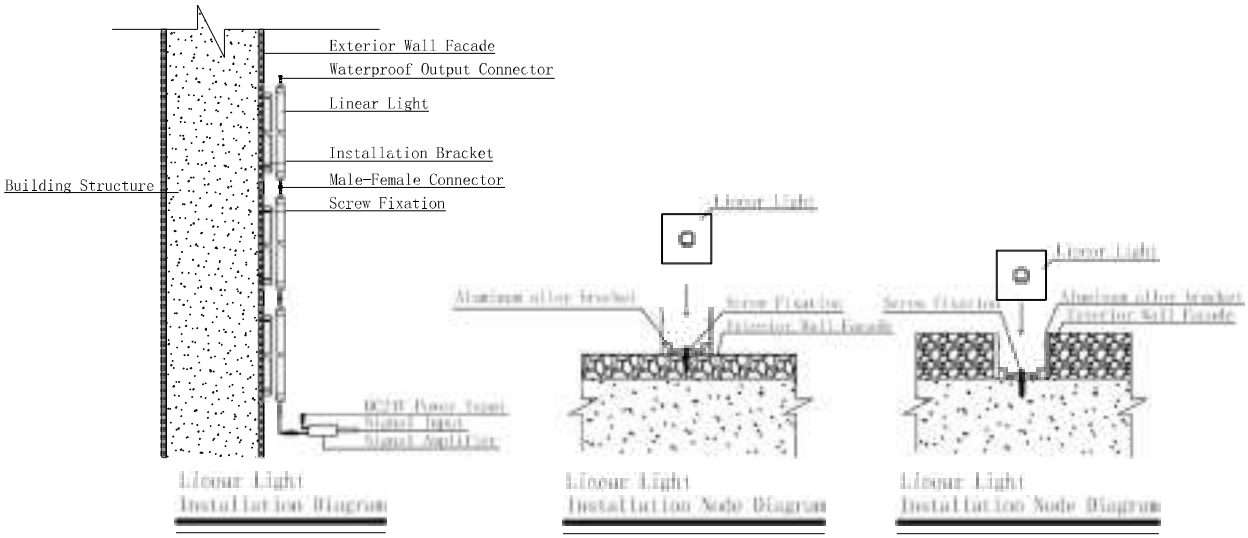
Aluminum channel installation

Dimensional Drawing





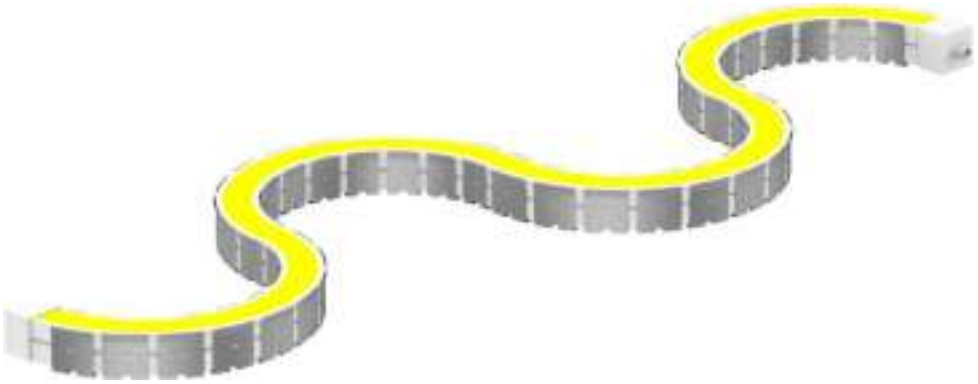
Installation Diagram

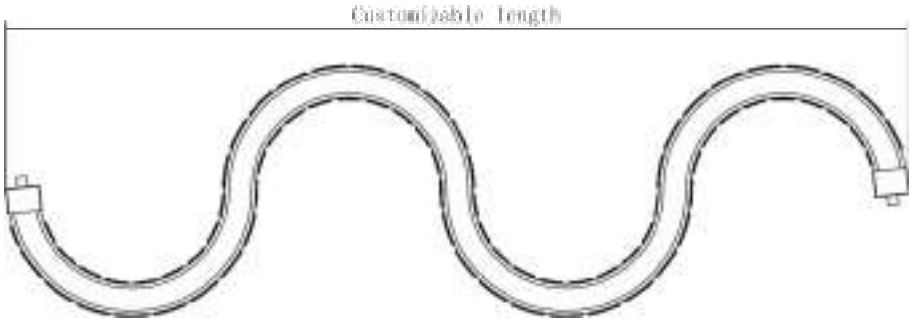


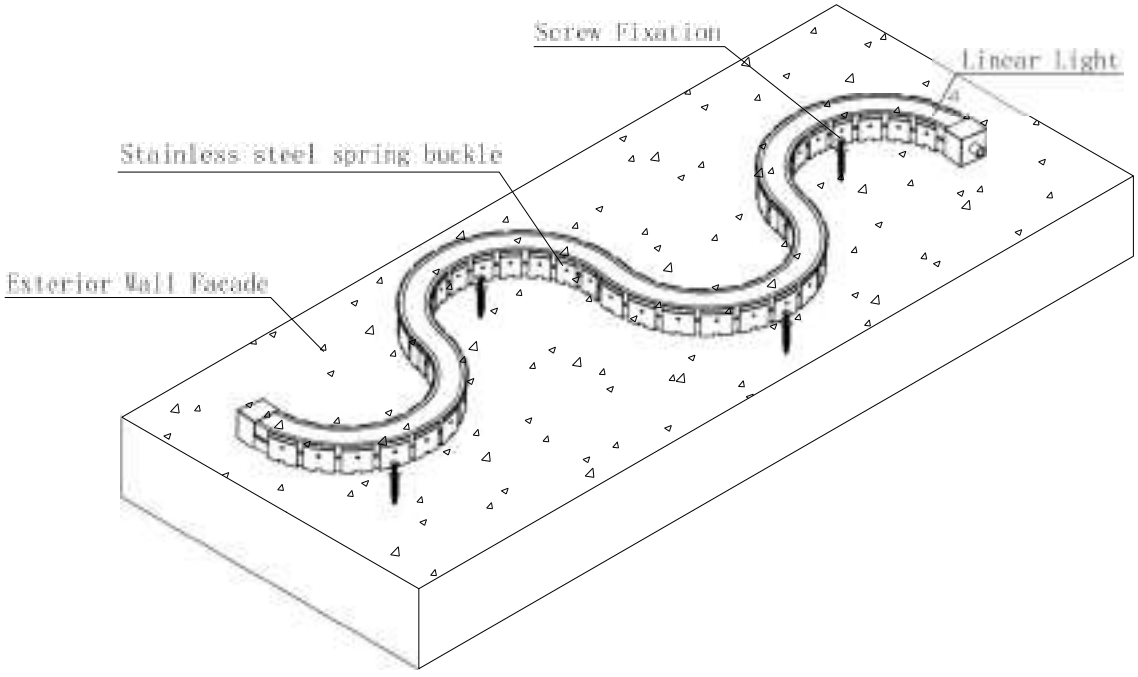
Mounting Options

Top keel installation

Installation Diagram





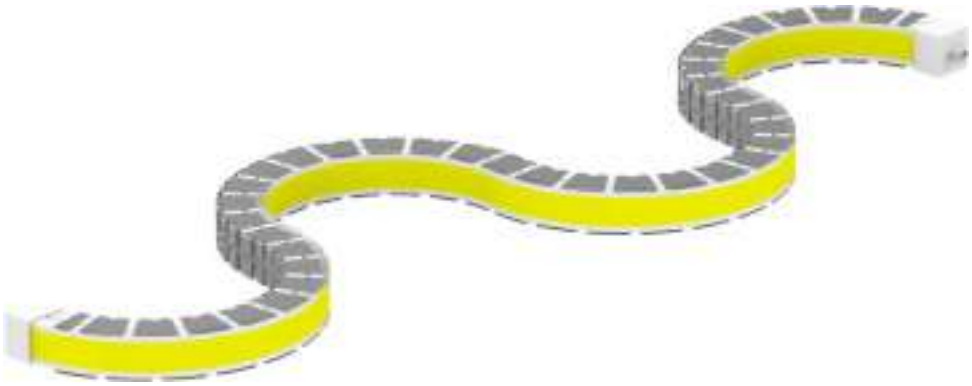


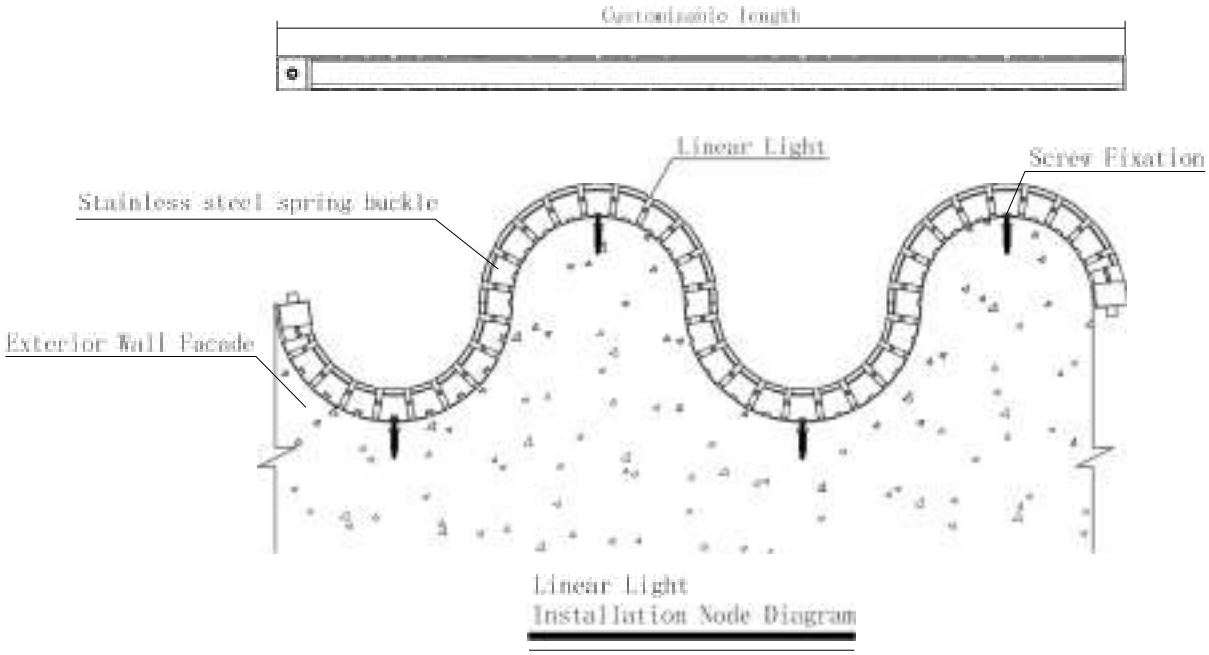
Linear Light
Installation Node Diagram

Mounting Options

Side keel installation

Installation Diagram

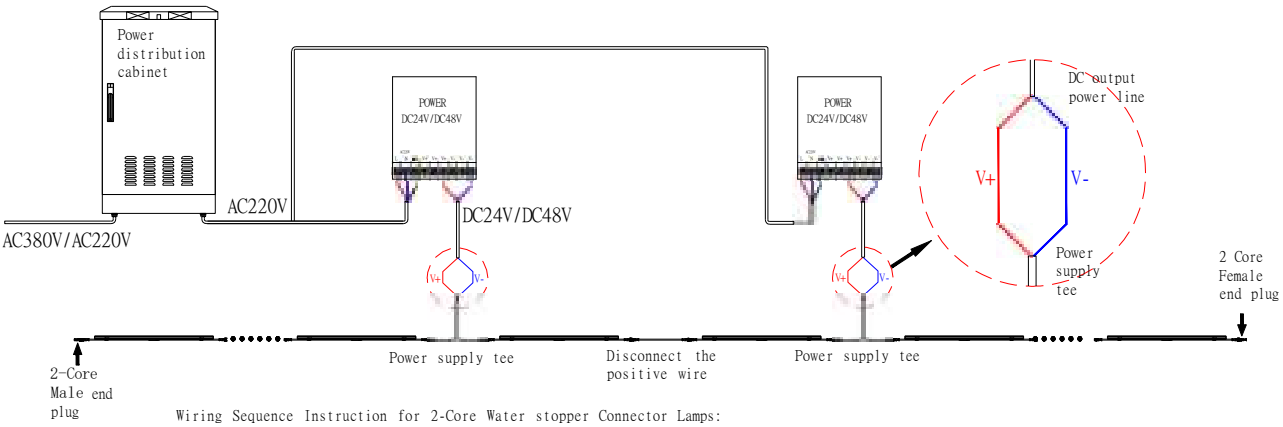




Linear Light
Installation Node Diagram

Wiring Diagram

Wiring Diagram of Low-Voltage Constant-Light



Wiring Sequence Instruction for 2-Core Water stopper Connector Lamps:

1.Brown/Red Wire for DC+

2.Bule/Black Wire for DC-

Power Supply Series Connection Instructions:

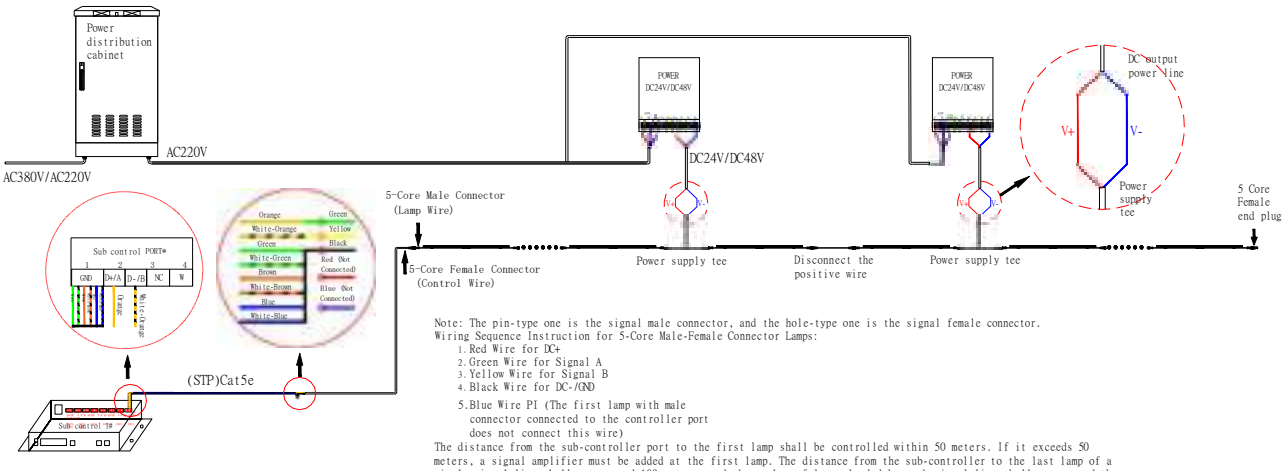
The total power of the luminaires should be less than 80% of the power supply's total capacity.

The total output current of the power supply must not exceed its maximum current rating.

The voltage drop at the end should be less than 4V.

The luminaire cable connects to both the power line,Ensure all connections are secure and properly waterproofed.

Wiring Diagram of Low-Voltage DMX512



Note: The pin-type one is the signal male connector, and the hole-type one is the signal female connector.

Wiring Sequence Instruction for 5-Core Male-Female Connector Lamps:

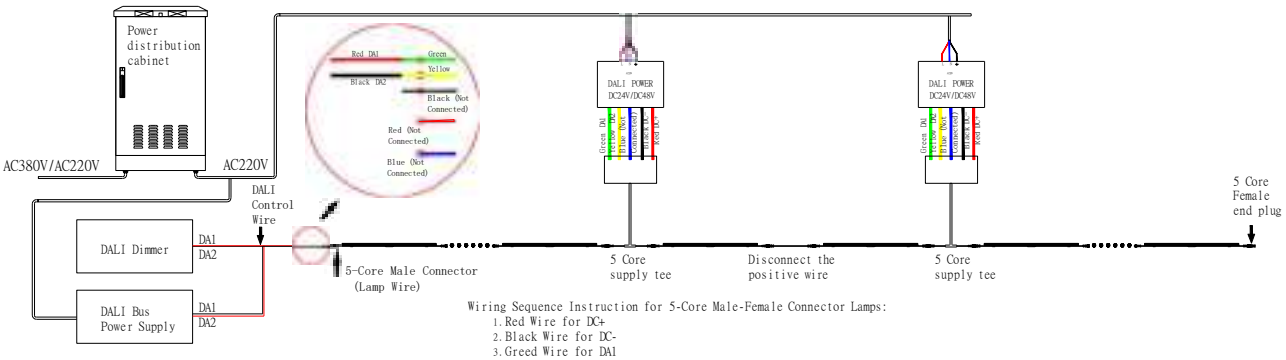
1. Red Wire for DC+
2. Green Wire for Signal A
3. Yellow Wire for Signal B
4. Black Wire for DC-/GND
5. Blue Wire PI (The first lamp with male connector connected to the controller port does not connect this wire)

The distance from the sub-controller port to the first lamp shall be controlled within 50 meters. If it exceeds 50 meters, a signal amplifier must be added at the first lamp. The distance from the sub-controller to the last lamp of a single signal line shall not exceed 100 meters, and the number of lamps loaded by each signal line shall not exceed the maximum load capacity of the sub-controller port.

The luminaire cable connects to both the power line and the signal line,Ensure all connections are secure and properly waterproofed.

Wiring Diagram

Wiring Diagram of Low-Voltage DALI



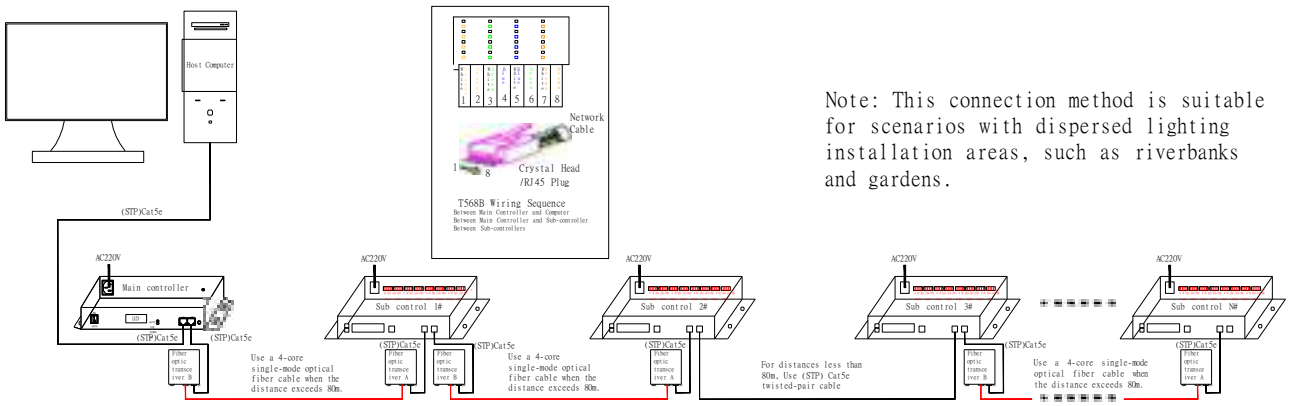
Wiring Sequence Instruction for 5-Core Male-Female Connector Lamps:

1. Red Wire for DC+
2. Black Wire for DC-
3. Greed Wire for DA1
4. Yellow Wire for DA2
5. Blue Wire (Not Connected)

The maximum permissible load length for DALI cables is 300 meters, based on the use of 1.5 mm² cables, with a minimum terminal voltage of no less than DC14V.
Maximum device address: 64.

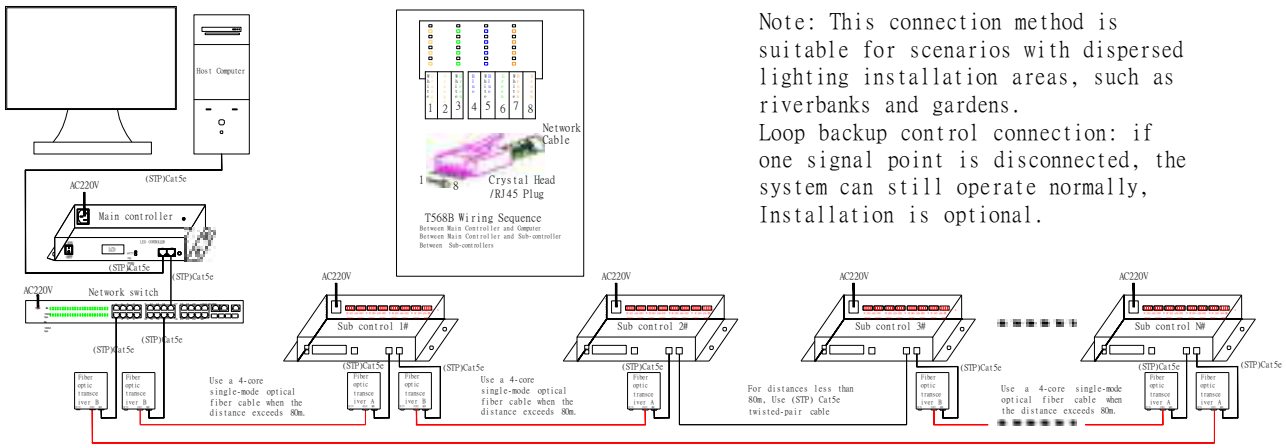
Control System Diagram

Control System Diagram (Standard)



Note: This connection method is suitable for scenarios with dispersed lighting installation areas, such as riverbanks and gardens.

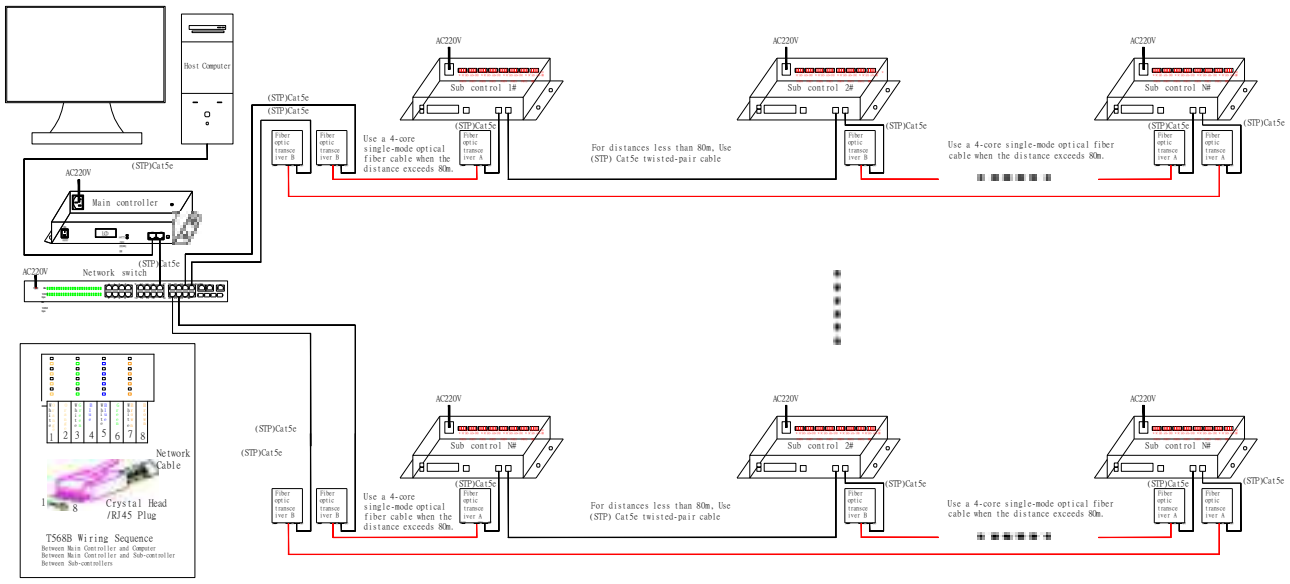
Control System Diagram (Loop Backup)



Note: This connection method is suitable for scenarios with dispersed lighting installation areas, such as riverbanks and gardens.
Loop backup control connection: if one signal point is disconnected, the system can still operate normally, Installation is optional.

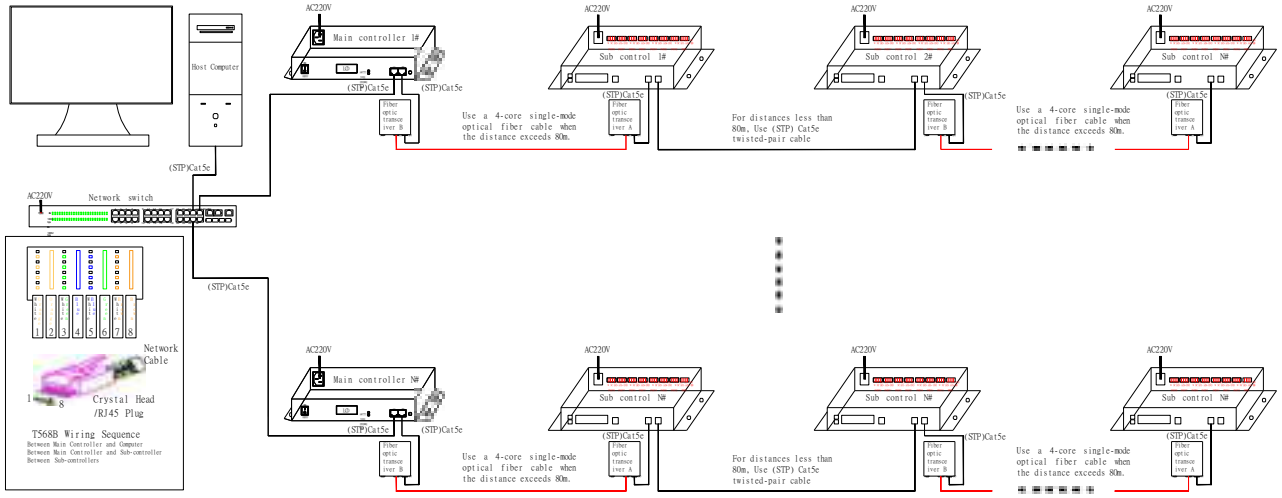
Control System Diagram

Control System Diagram (Multi-Circuit Loop Backup)



Note: This connection method is suitable for scenarios with concentrated lighting installation areas, such as buildings and shopping malls.
Loop backup control connection: if one signal point is disconnected, the system can still operate normally, Installation is optional.
Control System Connection Instructions:
1. Each main controller can carry a maximum of 50 sub-controllers. If exceeding 50, an additional main controller is required;
2. The RJ45 connectors for connections between controllers all adopt the T568B crimping sequence;
3. The maximum distance for connections between controllers shall not exceed 80 meters. If exceeding 80 meters, the connection method shall be changed to fiber optic cable plus transceiver.

Control System Diagram (Multi-Master Control)



Note: This connection method is suitable for scenarios with concentrated lighting installation areas, such as buildings and shopping malls.
Control System Connection Instructions:
1. Each main controller can carry a maximum of 50 sub-controllers. If exceeding 50, an additional main controller is required;
2. The RJ45 connectors for connections between controllers all adopt the T568B crimping sequence;
3. The maximum distance for connections between controllers shall not exceed 80 meters. If exceeding 80 meters, the connection method shall be changed to fiber optic cable plus transceiver.