



iColor Flex SLX

Flexible strands of large, full-color LED nodes

PHILIPS

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iColor Flex™ SLX is an affordable and versatile strand of 50 large, individually controllable, full-color LED nodes. The flexible form factor accommodates two- and three-dimensional configurations, while bright, full-color nodes support long-distance viewing for architectural accent and perimeter lighting, large-scale signage, and building-covering video displays.

- Multiple lens options — Clear flat and translucent dome lenses are standard. Optional marquee lenses, available in clear, translucent, and semi-frosted, snap onto flat-lens nodes to create the appearance of bulbs on a traditional theatre marquee. You can mount marquee lenses in front of a substrate, or directly to mounted strands.
- Adaptable mounting — iColor Flex SLX strands can be mounted directly to a surface like traditional string lights. Optional mounting tracks ensure straight linear runs, while snap-on spacers hide cabling and mounting hardware between nodes for a clean, finished look. Single node mounts can be positioned individually to provide anchor points in installations with uneven node spacing or complex geometries.
- Standard and custom lengths and node spacing — iColor Flex SLX strands are available with standard on-center node spacing of 4 in (102 mm) or 12 in (305 mm). Custom on-center node spacing from 3 in (76 mm) to 12 in (305 mm) can support virtually any lighting or video design. Standard 50-node lengths can be shortened in the field. Custom node lengths are also available.
- Custom housing options — Custom housing colors are available in addition to standard white and black.
- Industry-leading controls — iColor Flex SLX works seamlessly with the complete Philips line of controllers, including Video System Manager Pro and Light System Manager, as well as third-party DMX controllers.
- Outdoor rated — Fully sealed for maximum fixture life and IP66-rated for outdoor applications.



Affordable, color-changing light

Each iColor Flex SLX strand consists of 50 large, individually controllable, full-color LED nodes.

Creating a Destination in the Heart of Vienna

Constructed in 2007, the innovative Stadion Center, located next door to the Ernst Happel football arena in the Leopoldstadt in Vienna, Austria, offers over 20,000 square meters (215,000 square feet) of shops and restaurants. The Center's lighting designers were presented with the challenge of creating an inviting, state-of-the-art video façade that would reflect the innovative character of the Stadion Center and differentiate it from other shopping centers. The façade would be used to display a combination of advertisements, commercial logos, and artistic video effects.



Rather than erecting a traditional rectilinear video screen, the designers installed 37,620 individually controllable, full-color iColor Flex SLX nodes on a flexible mesh that wraps around the building's main entrance (shown here and on the cover). iColor Flex SLX offered the lighting designers excellent color consistency, optimal image quality, precise control, low maintenance, and energy efficiency in flexible strands that stand up well to wind and weather. At 640 square meters (6,889 square feet), the Center's video wall is the largest in Europe.



Each iColor Flex SLX node in the dynamic façade acts as a pixel in the video display. Animations, color-changing light shows, and video content is streamed to the video façade with the Video System Manager Pro video controller from Philips Color Kinetics. During the day, the mesh and the iColor Flex SLX fixtures installed on it are virtually invisible, allowing an unobstructed view of traditional illuminated signs mounted directly against the building. Because the shape of the video façade is different from the shape of the Stadion Center itself, the façade transforms the shape of the building when illuminated at dusk.



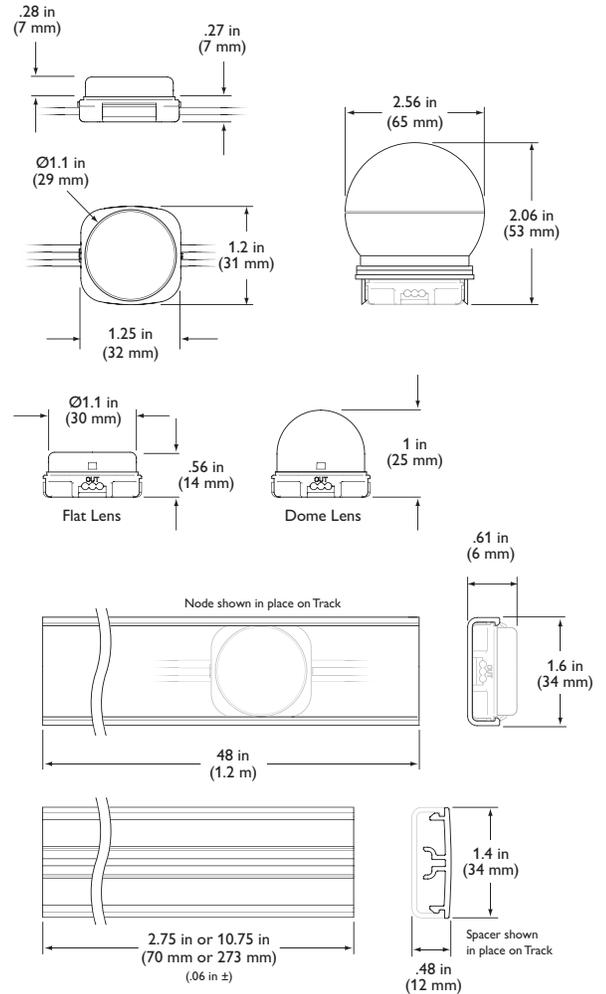
Photography: Matthias Silvert

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification	Clear Flat Lens	Translucent Dome Lens
Output	Color Range	16.7 million additive RGB colors; continuously variable intensity	
	Lumen Maintenance‡	50,000+ hours L50 @ 50° C (full output)	
Electrical	Input Voltage	12 VDC	
	Power Consumption	1 W max. per node at full output, steady state	
Control	Interface	PDS-60ca 12V (Pre-programmed or DMX / Ethernet) sPDS-480ca 12V (Ethernet)	
	Control System	Philips full range of controllers, including Video System Manager Pro and Light System Manager, or third-party DMX controllers	
Physical	Node Dimensions (Height x Width x Depth)	1.2 x 1.25 x .56 in (31 x 32 x 14 mm)	1.2 x 1.25 x 1 in (31 x 32 x 25 mm)
	Weight	4.6 lb (2.1 kg) 50-node strand, 4 in on-center node spacing	
	Housing	White or black polycarbonate	
	Lens	Clear or translucent plastic	
	Fixture Connections	4-pin power / data connector	
	Operating Temperature	-4° – 122° F (-20° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -22° – 185° F (-30° – 85° C) Storage	
	Humidity	0 – 95%, non-condensing	
Certification and Safety	Maximum Fixtures Per Power / Data Supply	sPDS-480ca 12V: 8 strands PDS-60ca 12V : 1 strand	
	Certification	UL / cUL, CE	
	LED Class	Class 2 LED product	
Environment	Dry / Damp / Wet Location, IP66		

‡ L50 = 50% maintenance of lumen output (when light output drops below 50% of initial output)



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Photometrics

Brightness Per Node

Lensing	On-Axis Candela	Viewing Angle
Clear flat lens	1.9	118°

Luminance of 1 m² Grid

All figures in nits (cd / m ²)	On-Center Node Spacing		
Lensing	3 in	4 in	12 in
Clear flat lens	321	154	17

Please visit www.colorkinetics.com/support/ies/ for additional photometrics.

Fixtures, Power / Data Supplies, and Controllers

iColor Flex SLX is part of a complete system which includes fixtures and:

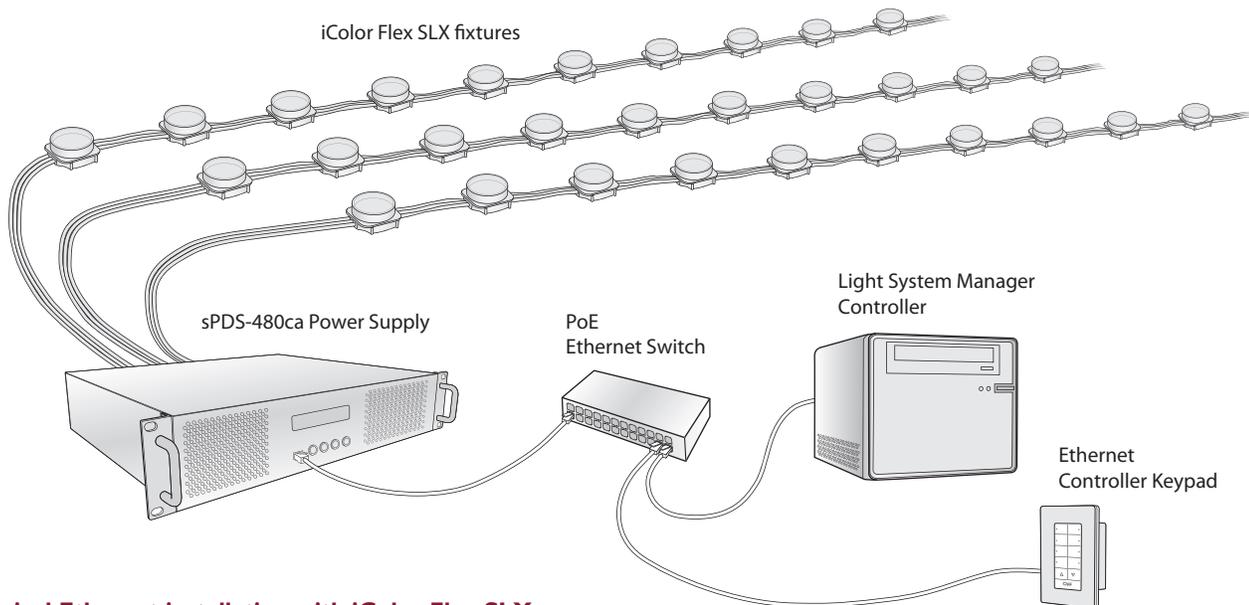
- One or more power / data supplies.
- Optional mounting tracks, spacers, or single node mounts.
- Any Philips controller, including Video System Manager, Light System Manager, and iPlayer 3, or a third-party DMX controller.

Included in the box

iColor Flex SLX strand (50 nodes)
Extra termination cap
Installation Instructions

Item	Type	Item Number	Philips 12NC	
iColor Flex SLX 4 in on-center node spacing	White	Clear Flat Lens	101-000053-01	910503700037
		Translucent Dome Lens	101-000053-00	910503700036
	Black	Clear Flat Lens	101-000055-01	910503700041
		Translucent Dome Lens	101-000055-00	910503700040
iColor Flex SLX 12 in on-center node spacing	White	Clear Flat Lens	101-000054-01	910503700039
		Translucent Dome Lens	101-000054-00	910503700038
	Black	Clear Flat Lens	101-000056-01	910503700043
		Translucent Dome Lens	101-000056-00	910503700042
Power / data supplies	sPDS-480ca 12V	Ethernet	109-000023-00	910503700108
	PDS-60ca 12V	Pre-programmed	109-000020-00	910503700104
		DMX / Ethernet	109-000020-03	910503700105
You can use any Philips controller or third-party DMX controller	Video System Manager Pro	Ethernet, DVI Interface	103-000022-00	910503700325
		Ethernet, Composite Interface	103-000022-01	910503700455
	Light System Manager	Ethernet	103-000015-02	910503700221
	iPlayer 3	DMX, North America Power Cord	103-000019-00	910403327101
		DMX, Europe Power Cord	103-000019-01	910503700392
	ColorDial Pro	Ethernet	103-000025-00	910503700790

Use Item Number when ordering in North America.



Typical Ethernet installation with iColor Flex SLX

For detailed wiring diagrams visit www.colorkinetics.com/support/wiring/lc_prod.html

Accessories

Item	Type		Item Number	Philips 12NC
Marquee Lens Kits Qty 50	Clear	White	999-000373-00	822221400077
		Black	999-000373-04	822221400081
	Semi-frosted	White	999-000373-01	822221400078
		Black	999-000373-03	822221400080
	Translucent	White	999-000373-02	822221400079
		Black	999-000373-05	822221400082
Mounting Track Qty 1	4 ft (1.2 m)	White	101-000057-00	910503700044
		Black	101-000057-01	910503700045
		Clear	101-000057-02	910503700366
Spacers Qty 50	4 in (102 mm)	White	101-000059-00	910503700048
		Black	101-000061-00	910503700052
	12 in (305 mm)	White	101-000059-01	910503700048
		Black	101-000061-01	910503700053
Single-Node Mounts Qty 50		White	101-000058-00	910503700046
		Black	101-000058-01	910503700047

Marquee Lenses



Clear

Semi-Frosted

Translucent

Installation

iColor Flex SLX can be used in a wide range of two-dimensional and three-dimensional configurations, including portable video screens and permanent building-covering displays. iColor Flex SLX installations are not constrained by fixture size, shape, or architectural space. For example, iColor Flex SLX strands can be wrapped horizontally around the exterior of a 45-story highrise at intervals to transform the façade into a massive three-dimensional video screen that can be viewed from a distance.

Because of their potential complexity, iColor Flex SLX installations require upfront planning for configuring, positioning, and mounting the fixture strands. Planning includes understanding how to position strands in relation to power / data supplies and the number of strands each power / data supply can support. Planning for video displays involves additional considerations, such as how to space iColor Flex SLX nodes to achieve the desired pixel pitch, minimum and maximum viewing distances, sampling, and display resolution.

All installations involve three main steps:

1. Create a lighting design plan and layout grid
2. Mount fixture strands
3. Address, configure, and test fixtures

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate iColor Flex SLX fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

Installing in Wet or Damp Locations

When installing in wet or damp locations, seal all fixture connections, power / data supplies, and junction boxes with electronics-grade RTV silicone sealant so that water or moisture cannot enter or accumulate in wiring compartments, cables, or other electrical parts. Use suitable outdoor-rated junction boxes when installing in wet or damp locations. Additionally, use gaskets, clamps, and other parts required for installation to comply with all applicable local and national codes.

DMX or Ethernet Control?

iColor Flex SLX installations can be controlled via either DMX or Ethernet. DMX is appropriate for relatively simple installations, or for installations where all lights operate in unison — for example, for accenting, perimeter lighting, or cove lighting applications.

Each node in a strand of iColor Flex SLX is identified by a *light number*. A light number corresponds to three sequential DMX addresses, one for red, one for green, and one for blue. A DMX universe consists of 512 addresses, so the maximum number of light numbers available in a DMX universe is 170 ($170 \times 3 = 510$).

Because it is not subject to the DMX addressing limitations, Ethernet is the preferred environment for dynamic, color-changing light shows and video displays, both of which require large numbers of unique light numbers. In an Ethernet environment, each power / data supply effectively acts as its own universe.

DMX installations require the use of a PDS-60ca 12V power / data supply, while the PDS-480ca 12V power / data supply is Ethernet-only.

Refer to the iColor Flex SLX Installation Instructions for specific warning and caution statements.

Considerations for Video Displays

In addition to the planning required for all iColor Flex SLX installations, planning for video displays involves special considerations such as pixel pitch, minimum and maximum viewing distances, sampling, and display resolution.

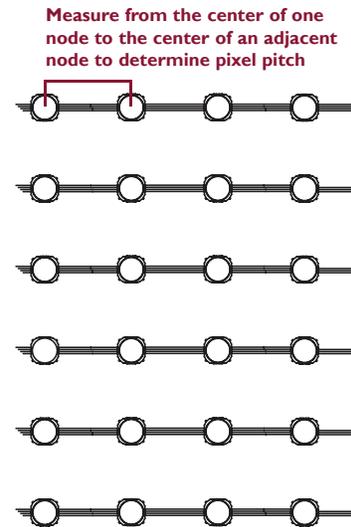
Determining Pixel Pitch and Viewing Distances for Video Displays

When using iColor Flex SLX strands to display video, each node acts as a pixel in the display. Images on an LED video display appear to be sharper to the human eye as the distance to the display increases. Likewise, images appear less visible as the distance decreases. The spacing between pixels, known as the *pixel pitch*, determines the minimum and maximum viewing distances for discernible video output. Pixel pitch is measured center-to-center. For an iColor Flex SLX strand, you determine pixel pitch by measuring from the center of one node to the center of the next.

Designing a layout with overlapping strands is a common technique for increasing pixel pitch. For example, to create a dense line of nodes, place multiple runs close to each other vertically, with a slight horizontal offset between the nodes. Philips offers iColor Flex SLX with both 4 in (102 mm) and 12 in (305 mm) spacing between nodes. Using strands with made-to-order node spacing is another method for adjusting pixel pitch.

The following calculations and examples are general guidelines for determining minimum and maximum viewing distances, based on video displays using grids of evenly spaced pixels:

- To determine minimum viewing distance, multiply pixel pitch by 100 distance units. For example, if the pixel pitch is 2 in (50 mm), the minimum viewing distance is 16.4 ft (5 m).
- To determine the maximum viewing distance for discernible video, multiply the screen height by 20 distance units. For example, if the screen height is 65.6 ft (20 m), then the maximum viewing distance for recognizable video is 1312.3 ft (400 m).
- LED screens are visible beyond the maximum viewing distance for discernible video. To determine the maximum viewing distance that still creates visual impact, multiply the screen height by 50 units. For example, a screen 65.6 ft (20 m) high will continue to create visual impact at 3280.8 ft (1000 m).

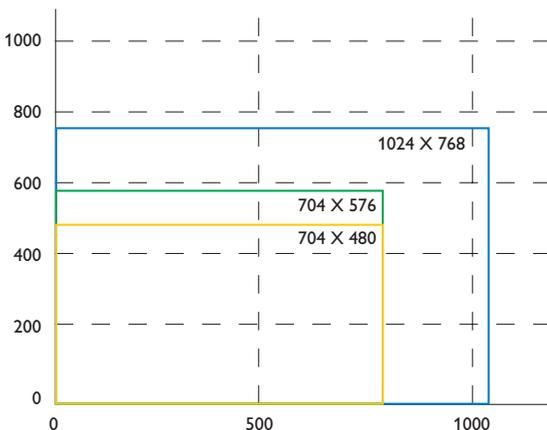


Working with Video Display Resolutions

The resolution of an LED video display equals the total number of vertical and horizontal pixels — the greater the pixel count, the greater the resolution.

- The resolution of VSE digital video is 1024 x 768
- The resolution of PAL video is 704 x 576
- The resolution of NTSC video is 704 x 480

VSE Pro, or Video System Engine Pro, is the hardware component of Video System Manager Pro, an integrated video controller from Philips Color Kinetics. Visit www.colorkinetics.com/ls/controllers/vsmpro/ for complete information



For designs where the acceptable level of discernible video may be more or less demanding, or for help with your specific installation, contact Philips Color Kinetics Application Engineering Services for assistance.

Reproducing a video signal with 1:1 pixel mapping on an LED display requires a substantial pixel count. For example, true NTSC video output requires 337,920 pixels, PAL output requires 405,504 pixels, and digital video output requires 786,432 pixels.

However, you can use a controller such as Philips Video System Manager Pro to reduce the required pixel count for any video format by sampling and distributing pixels from the source video to match your installation.

For example, if you retain the horizontal resolution of a digital video source (1024 lines wide), but sample every tenth line of pixels vertically (76 lines high instead of 768 lines), you can retain the correct aspect ratio while exponentially reducing the pixel count. From a distance, even with only 76 lines of vertical output, the human eye can still discern video images because the horizontal resolution is dense.

An installation using 1024 x 76 nodes would have a pixel count of 77,824 yet still display high-quality digital video output. This method is especially effective when creating an installation that covers a building which, by necessity, already has spacing between lines of video due to windows and other architectural features.

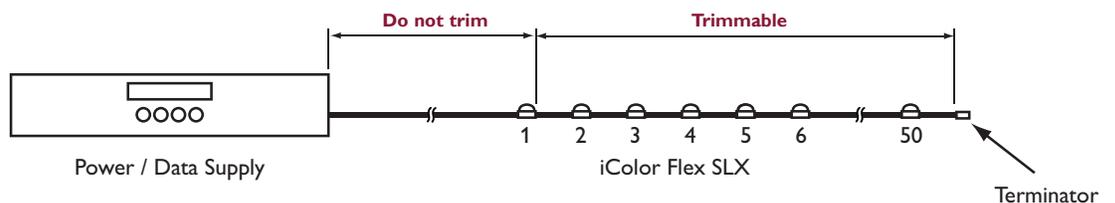
Create a Lighting Design Plan and Layout Grid

Even for relatively simple installations, it's good practice to create a lighting design plan. For complex installations displaying light shows with dynamic effects, and especially for Ethernet-based video displays, such a plan is essential. A lighting design plan is typically an architectural diagram or other diagram that shows the physical layout of the installation, including the appropriate positioning and spacing of all fixtures, power / data supplies, power sources, controllers, cables, and other required hardware. For DMX installations, the plan should record the DMX base number and node count for each iColor Flex SLX strand. For Ethernet installations, the plan should record the IP address of each power / data supply and the number of nodes per power / data supply port.

Keep the following considerations in mind when creating a lighting design plan and layout grid:

Refer to the Installation Instructions or Product Guide of your power / data supply for guidelines on configuring and positioning the power / data supply in relation to a controller or Ethernet switch.

- Determine the appropriate location of each power / data supply in relation to the fixtures, and of the fixtures in relation to each other. You connect a strand of iColor Flex SLX fixtures to an available power / data supply port using with the strand's integral 4-pin connector. For standard strands, the first node is positioned 25 ft (7.6 m) from the connector.
- iColor Flex SLX strands can be cut to any node length. An extra termination cap is included for sealing the cut end of the fixture cable.
- On an architectural diagram or other diagram that shows the physical layout of the installation, identify the locations of all switches, controllers, power supplies, and fixtures.
- Nodes in each strand are sequentially addressed beginning with the node closest to the connector. Orientation of the power / data supply is therefore especially critical when using dynamic effects.



- In Ethernet environments, each power / data supply is identified with a unique IP address. We recommend recording the IP address of each power / data supply on a layout grid. For complex installations with many power / data supplies, we recommend assigning meaningful IP addresses to each power / data supply so that their locations are easy to identify.

Start the Installation

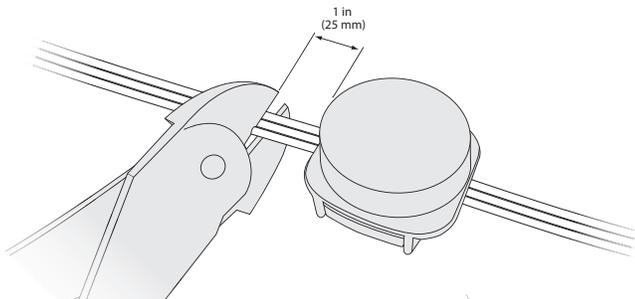
1. Install all power / data supplies, including any interfaces with controllers. Power / data supplies send power and control signals to fixtures.
2. Verify that all additional supporting equipment (switches, controllers) is in place.
3. Ensure that all additional parts (for example, optional single node mounts, spacers, mounting track, and mounting hardware) and tools are available.

Cut and Seal iColor Flex SLX Strands (Optional)

You can cut iColor Flex SLX strands to any desired node length. We recommend cutting and sealing the strands before mounting them.

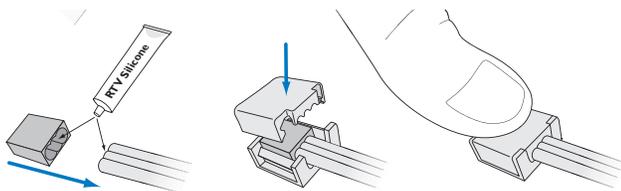
1. Using a wire cutter, cut the cable to the desired length, leaving at least 1 in (25 mm) of cable after the last node. Ensure that the cut is clean and that there are no frayed wires touching other wires.

Never cut a strand between the four-pin connector and the first node.



2. Apply a liberal amount of electronics-grade RTV silicone to the cable ends and to the opening of the rubber seal boot included with the extra termination cap. Insert the boot onto the cable.
3. Sit the sealed cable boot into the base of the provided termination cap.
4. Firmly press the termination cap onto the base until the top snaps into place. If using pliers, be careful not to crack the housing.

Never reuse a used termination cap.



The optional Marquee Lens Kit includes its own lens holder and threaded lens for mounting strands behind a substrate. See "Install Marquee Lenses" below for details.

Mount the Fixtures

You can mount iColor Flex SLX strands directly to a mounting surface, or you can mount them using iColor Flex SLX mounting accessories (available separately):

- Optional mounting tracks ensure straight runs in linear applications. Spacers snap to the mounting tracks for a clean, finished look that hides cables and mounting hardware between nodes.
- Single node mounts can be positioned individually to provide anchor points for nodes in installations with uneven node spacing or complex geometries.

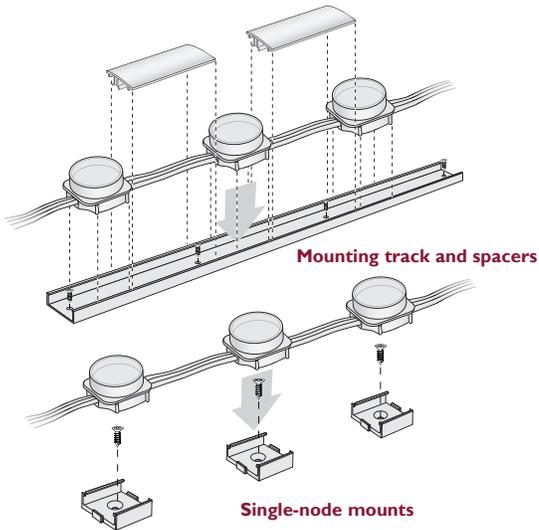
Make sure the power is OFF before mounting and connecting iColor Flex SLX fixtures.

1. Using a pencil or chalk line, mark a center-line path for the nodes to follow.
2. (Optional) To install mounting track, cut the track to the desired length with a saw or snips. Using flathead screws suitable for the mounting surface, drive screws through the plastic track into the attaching surface. Recommended maximum spacing between screws is 16 in (406 mm). Snap optional spacers into the track to hide mounting hardware and wires.

3. (Optional) Ensure that the spacing between single node mounts is sufficient to accommodate cable length between nodes and to allow for cable bending as necessary.

Using double-sided tape on the base of the mounts, adhere the mounts to the attaching surface. Reinforce installation with #6 flathead screws suitable for the mounting surface.

4. If using mounting track or single node mounts, push the light nodes into the mounts.
5. If mounting directly to a mounting surface, install iColor Flex SLX strands using a suitable mounting method. For example, you can mount strands to a pipe or cable using plastic cable ties.

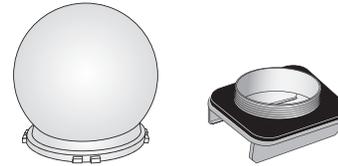


Install Marquee Lenses (Optional)

Optional marquee lenses clip onto iColor Flex SLX strands with flat lenses to create the appearance of bulbs on a traditional theatre marquee. Marquee Lens Kits are available with clear, semi-frosted, or translucent lenses for a variety of looks and applications. You can mount marquee lenses in front of a substrate, or directly to a mounted strand.

You cannot use the marquee lens kit with iColor Flex SLX strands with dome lenses, or with the optional mounting track or single node mounts.

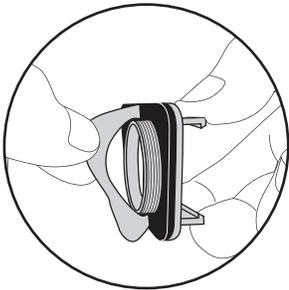
1. Confirm all components received, Each Marquee Lens Kit consists of a lens and lens holder.
2. If mounting lenses in front of a substrate, prepare the substrate by cutting openings of the appropriate diameter in the required locations.



2.125 in Diameter
(54 mm)

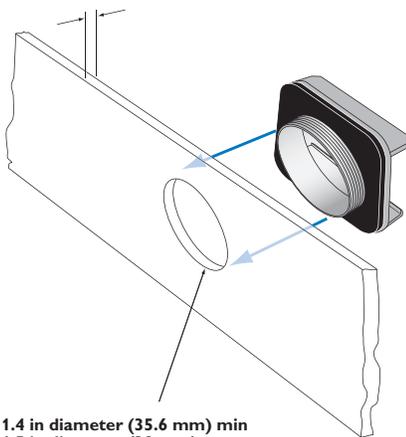
To accommodate the threads on the marquee lens holder, the recommended substrate thickness is .0625 in (1.6 mm), and the maximum thickness is .125 in (3.2 mm). We recommend using a 1 3/8 in diameter hole saw to cut openings in the substrate. Openings should be a minimum of 1.4 in (35.6 mm) in diameter, and a maximum of 1.5 in (38 mm) in diameter.

2. Peel the backing from a lens holder to expose the adhesive surface.

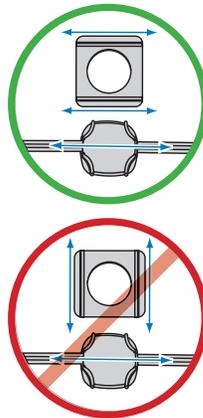


3. Insert the lens holder through an opening in the substrate, and temporarily affix the lens holder by pressing the adhesive surface to the back of the substrate. Make sure that the lens holder is oriented in the direction of the iColor Flex SLX strand.

.0625 in (1.6 mm) recommended
.125 in (3.2 mm) max

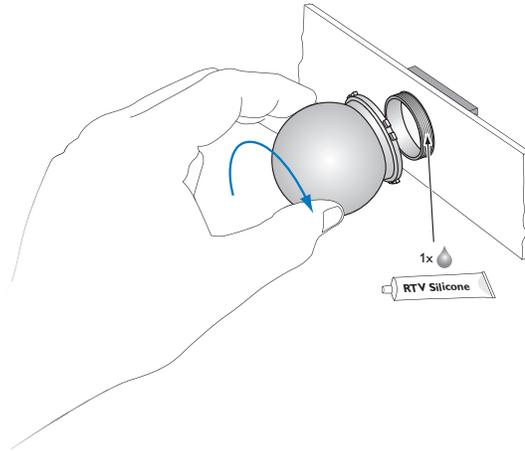


1.4 in diameter (35.6 mm) min
1.5 in diameter (38 mm) max
1 3/8 in diameter hole saw recommended

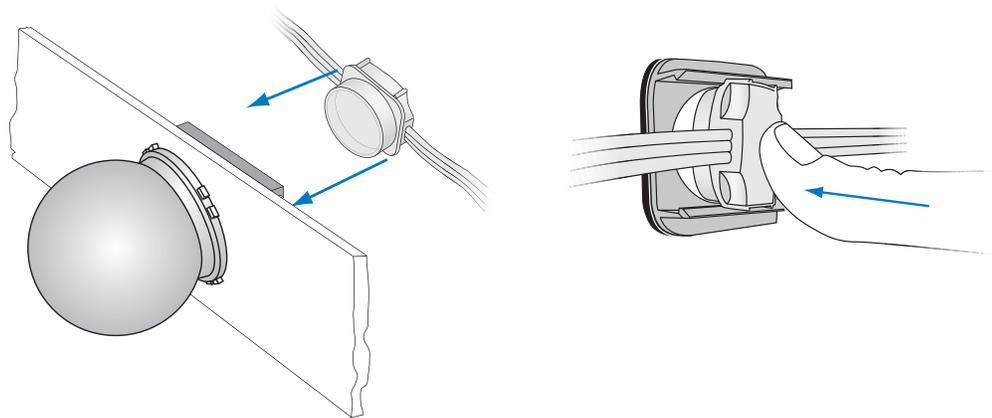


You can mount Marquee Lens Kits directly to an installed iColor Flex SLX strands by clipping a lens holder over each node and screwing a lens onto each lens holder.

4. Screw a marquee lens onto the lens holder. Hand tighten to approximately 10 to 15 in-lbs (1.1 to 1,7 Nm).



5. Repeat steps 2 – 4 for each Marquee Lens Kit.
6. Once all marquee lens holders and lenses are installed on the substrate, mount iColor Flex SLX strands by inserting one node into the back of each lens holder. Press until the nodes snap firmly into the lens holders.



Make Power and Data Connections

iColor Flex SLX fixtures are designed to work with 12VDC power / data supplies from Philips Color Kinetics. Power / data supplies send power and data to iColor Flex SLX strands. sPDS-480ca 12V can power up to 8 fixture strands in Ethernet installations, while PDS-60ca 12V can power one fixture strand in either Ethernet or DMX installations.

PDS-60ca 12V is an IP66-rated power / data supply, suitable for use in damp and wet locations. Although sPDS-480ca 12V is rated for use in dry locations only, you can install it in a watertight enclosure for outdoor applications.

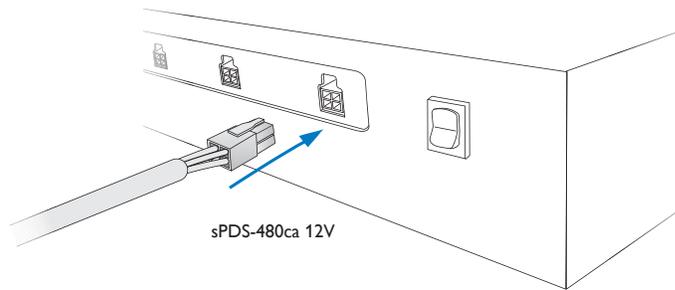
Make sure the power is OFF before connecting iColor Flex SLX fixtures.

Maximum strands per power / data supply

PDS-60ca 12V	1
sPDS-480ca 12V	8

Connecting to the sPDS-480ca 24V Power / Data Supply

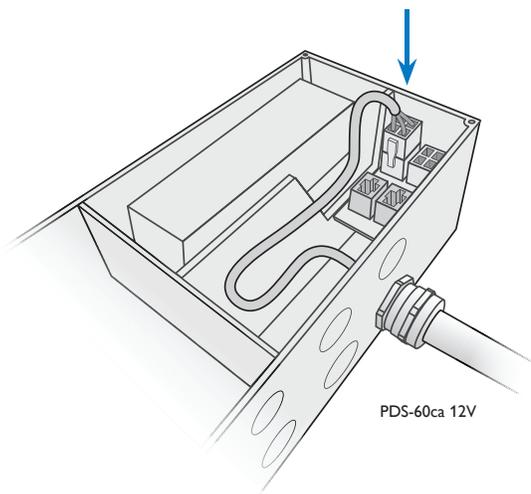
- Connect an iColor Flex SLX strand to an available power port on the back of the power / data supply housing.



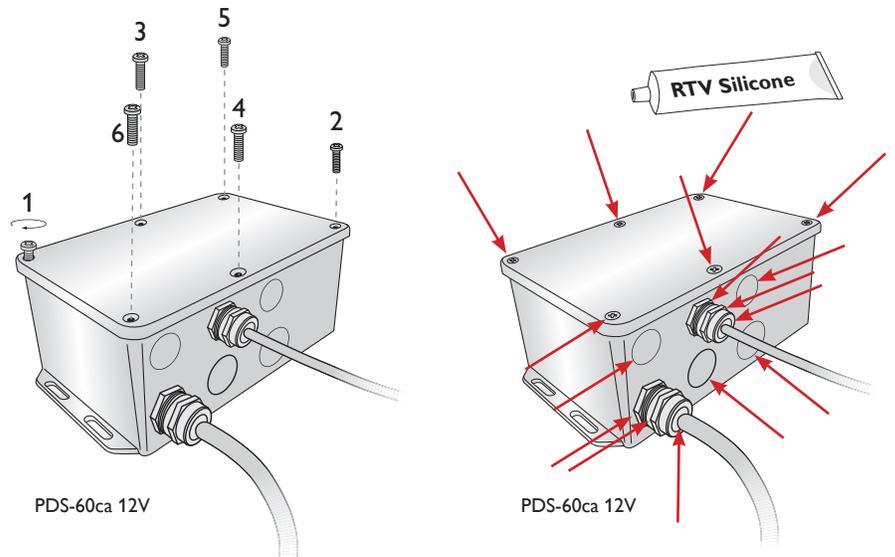
Connecting to the PDS-60ca 12V Power / Data Supply

The PDS-60ca 12V is an IP66-rated power / data supply, suitable for use in damp and wet locations. The following procedure describes how to connect and seal a PDS-60ca 12V power / data supply for outdoor applications.

1. Remove the power / data supply cover.
2. Connect the iColor Flex SLX 4-pin connector to an available port inside the power / data supply housing.



- Secure the power / data supply cover. If installing in a wet or damp location, seal the power / data supply with electronics-grade RTV silicone sealant.



- Repeat steps 1 – 3 for each power / data supply in the installation.

Address and Configure the Fixtures

Make sure the power is ON before addressing and configuring fixtures.

Power / data supplies and controllers work together to stream data to the iColor Flex SLX strands in your installation.

- Each individual iColor Flex SLX node is assigned a *light number*, which controllers use to communicate with it. Each light number corresponds to three sequential DMX addresses, one for red, one for green, and one for blue. A DMX universe consists of 512 addresses, so the maximum number of light numbers available in a DMX universe is 170 ($170 \times 3 = 510$). You can therefore uniquely address a maximum of 170 iColor Flex SLX nodes per DMX universe.

When using a PDS-60ca 12V power / data supply with DMX control, you program the power / data supply rather than addressing the iColor Flex LMX strings directly. You use SmartJack Pro (or iPlayer 3) with QuickPlay Pro addressing software to set a base light number for the power / data supply, and to specify the node quantity of each attached iColor Flex SLX strand.

For lighting designs where nodes work in unison, all nodes should be set to the same light address. For dynamic light show designs that show different colors on different nodes simultaneously, you must assign unique light numbers to each node. Starting with its base light number, the power / data supply automatically assigns light numbers to each iColor Flex SLX node in sequence, from the first node on output port 1 through the last node on output port 2.

- Because you are limited to 170 unique light numbers per DMX universe (less than four strands of 50 nodes each), Ethernet is the preferred environment for video displays and dynamic light shows with intricate effects.

No fixture addressing is necessary for iColor Flex SLX strands in an Ethernet environment. Each Ethernet-based power / data supply comes pre-programmed with a unique IP address, so the power / data supply effectively functions as its own universe. When creating a light map with a controller or media server such as Light System Manager or Video System Manager Pro, each iColor Flex SLX node automatically receives a unique identifier.

You can download the QuickPlay Pro software and the Addressing and Configuration Guide from www.colorkinetics.com/support/addressing/

You can discover all power / data supplies by IP address using QuickPlay Pro, Light System Manager, or Video System Manager Pro. For large installations, and especially for video displays, we recommend giving power / data supplies meaningful IP addresses to streamline installation, mapping, testing, and troubleshooting. When readdressing power / data supplies, you will need the layout grid you created when you recorded each power / data supply's IP address during installation planning.

For complete details on addressing and configuring fixtures, controllers, and power / data supplies, refer to the *Addressing and Configuration Guide* or the *User Guide* or *Specification Sheet* for your controller or power / data supply.



Philips Color Kinetics
3 Burlington Woods Drive
Burlington, Massachusetts 01803 USA
Tel 888.385.5742
Tel 617.423.9999
Fax 617.423.9998
www.colorkinetics.com

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