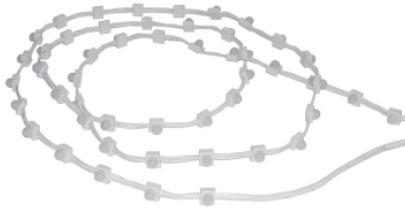


iCOLOR FLEX SL



The iColor® Flex SL strand provides accent or perimeter lighting and can be used as a component of a custom fixture. iColor Flex SL provides lighting professionals with a building block to create and design custom applications such as curtain walls, to line a building facade to display custom effects, or to present animation. Use iColor Flex SL as a traditional string light or custom mount it using the accessory mounting clips or mounting track.

iColor Flex SL is a strand of 50 individually addressable LED nodes driven by Color Kinetics' Chromasic® technology which integrates power, communication, and control. Each node can be addressed making the iColor Flex SL extraordinarily flexible, allowing any node to be any color at any time. The Chromasic chip and a tri-colored LED make up the node, which is mounted in a small plastic housing available with clear or translucent, dome or tall lenses. The nodes are available in two spacings, mounted either every four or twelve inches along a three-wire, 18 AWG cable. Custom spacing is available by special order. Each iColor Flex SL strand has a 20-foot leader from the power/data supply to the first node. The standard colors for iColor Flex SL are white and black.

iColor Flex SL receives power and data from a dedicated Color Kinetics indoor/outdoor rated power/data supply. Models are available with Ethernet control, DMX512 control, or pre-programmed effects. Each power/data supply supports two 50-node strands, and the compact size allows for discrete installations.

ICOLOR FLEX SL SPECIFICATIONS

COLOR RANGE	64 billion (36-bit) additive RGB colors; continuously variable intensity
SOURCE	150 LEDs packaged in 50 Tri-color (Red, Green, and Blue) nodes
HOUSING	Rigid plastic, approx. 5/8" x 5/8" x 3/4"H (1.6 cm x 1.6 cm x 1.9 cm)
LISTINGS	UL/CUL, CE certified

COMMUNICATION SPECIFICATIONS

DATA INTERFACE	Color Kinetics data interface system
CONTROL	Ethernet, DMX512, or stand-alone

ELECTRICAL SPECIFICATIONS (LIGHTS)

POWER REQUIREMENT	7.5 VDC
POWER CONSUMPTION	25W Max. at full intensity (full RGB), per 50 node strand
POWER SUPPLY	Color Kinetics PDS-60ca 7.5V (Preprogrammed 109-000015-00, DMX/Ethernet 109-000015-03)

ELECTRICAL SPECIFICATIONS (POWER/DATA SUPPLY)

POWER INPUT	100 VAC to 240 VAC auto ranging (50Hz–60Hz) Power factor correction (PFC)
POWER OUTPUT	7.5 VDC
HOUSING	NEMA 4 indoor/outdoor rated enclosure
CONNECTORS	Data: RJ-45 input/output connectors Power: 3-pin screw terminal

ENVIRONMENTAL SPECIFICATIONS

TEMPERATURE RANGE	-4°F to 122°F (-20°C to 50°C) based on testing of specific product
PROTECTION RATING	IP66

LED Source Life

In traditional lamp sources, lifetime is defined as the point at which 50% of the lamps fail. This is also termed Mean Time Between Failure [MTBF]. LEDs are semiconductor devices and have a much longer MTBF than conventional sources. However, MTBF is not the only consideration in determining useful life. Color Kinetics uses the concept of useful light output for rating source lifetimes. Like traditional sources, LED output degrades over time (lumen depreciation) and this is the metric for SSL lifetime.

LED lumen depreciation is affected by numerous environmental conditions such as ambient temperature, humidity, and ventilation. Lumen depreciation is also affected by means of control, thermal management, current levels, and a host of other electrical design considerations. Color Kinetics systems are expertly engineered to optimize LED life when used under normal operating conditions. Lumen depreciation information is based on LED manufacturers' source life data as well as other third party testing. Low temperatures and controlled effects have a beneficial effect on lumen depreciation. Overall system lifetime could vary substantially based on usage and the environment in which the system is installed.

Temperature and effects will affect lifetime. Color Kinetics rates product lifetime using lumen depreciation to 50% of original light output. When the fixture is running at room temperature using a color wash effect, the lifetime is in the range of 30,000-50,000 hours. This is based on LED manufacturers' test data. For more detailed information on source life, please see www.colorkinetics.com/lifetime.

CHROMACORE®
BY COLOR KINETICS

CHROMASIC®
BY COLOR KINETICS

OPTIBIN®
BY COLOR KINETICS



iColor Flex SL ITEM#

- 101-000018-00 (4" White, Translucent Dome)
- 101-000018-01 (4" White, Clear Dome)
- 101-000018-02 (4" White, Translucent Tall)
- 101-000018-03 (4" White, Clear Tall)
- 101-000021-00 (4" Black, Translucent Dome)
- 101-000021-01 (4" Black, Clear Dome)
- 101-000021-02 (4" Black, Translucent Tall)
- 101-000021-03 (4" Black, Clear Tall)
- 101-000026-00 (12" White, Translucent Dome)
- 101-000026-01 (12" White, Clear Dome)
- 101-000026-02 (12" White, Translucent Tall)
- 101-000026-03 (12" White, Clear Tall)
- 101-000027-00 (12" Black, Translucent Dome)
- 101-000027-01 (12" Black, Clear Dome)
- 101-000027-02 (12" Black, Translucent Tall)
- 101-000027-03 (12" Black, Clear Tall)

This product is protected by one or more of the following U.S. patents and their foreign counterparts: 6,016,038, 6,150,774, 6,292,901, 6,340,868, 6,777,891, 6,788,011, 6,806,659, 6,969,954, 6,975,079, 7,186,003, and 7,221,104. Other patents pending.

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All other brand or product names are trademarks or registered trademarks of their respective owners.

BR0124 Rev 09

Specifications subject to change without notice. Refer to www.colorkinetics.com for the most recent data sheet versions.

iCOLOR FLEX SL

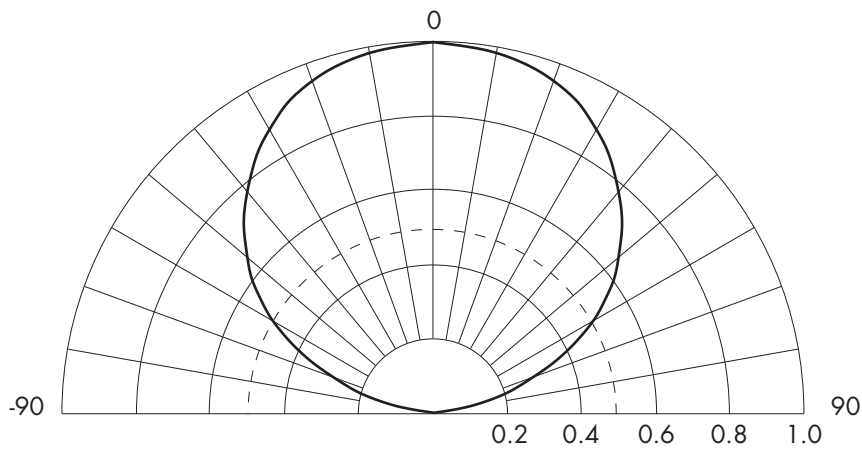
PHOTOMETRIC PERFORMANCE

Photometric data is for the LED package and is provided by the manufacturer. The distributions do not reflect the housing and lens.

SOURCE SPECIFICATIONS

Source:	3 LEDs (1 Red, 1 Green, 1 Blue) per node
View Angle:	120°
Distribution:	Symmetric direct illumination
Wavelength	617 nm (amber/red), 528 nm (true green), 470 nm (blue)
Optical Efficiency	24 lm/W (amber/red), 13 lm/W (true green), 3 lm/W (blue)
CCT:	Adjustable 1,000–10,000K
CRI:	Not measurable (CIE 13.3-1995)

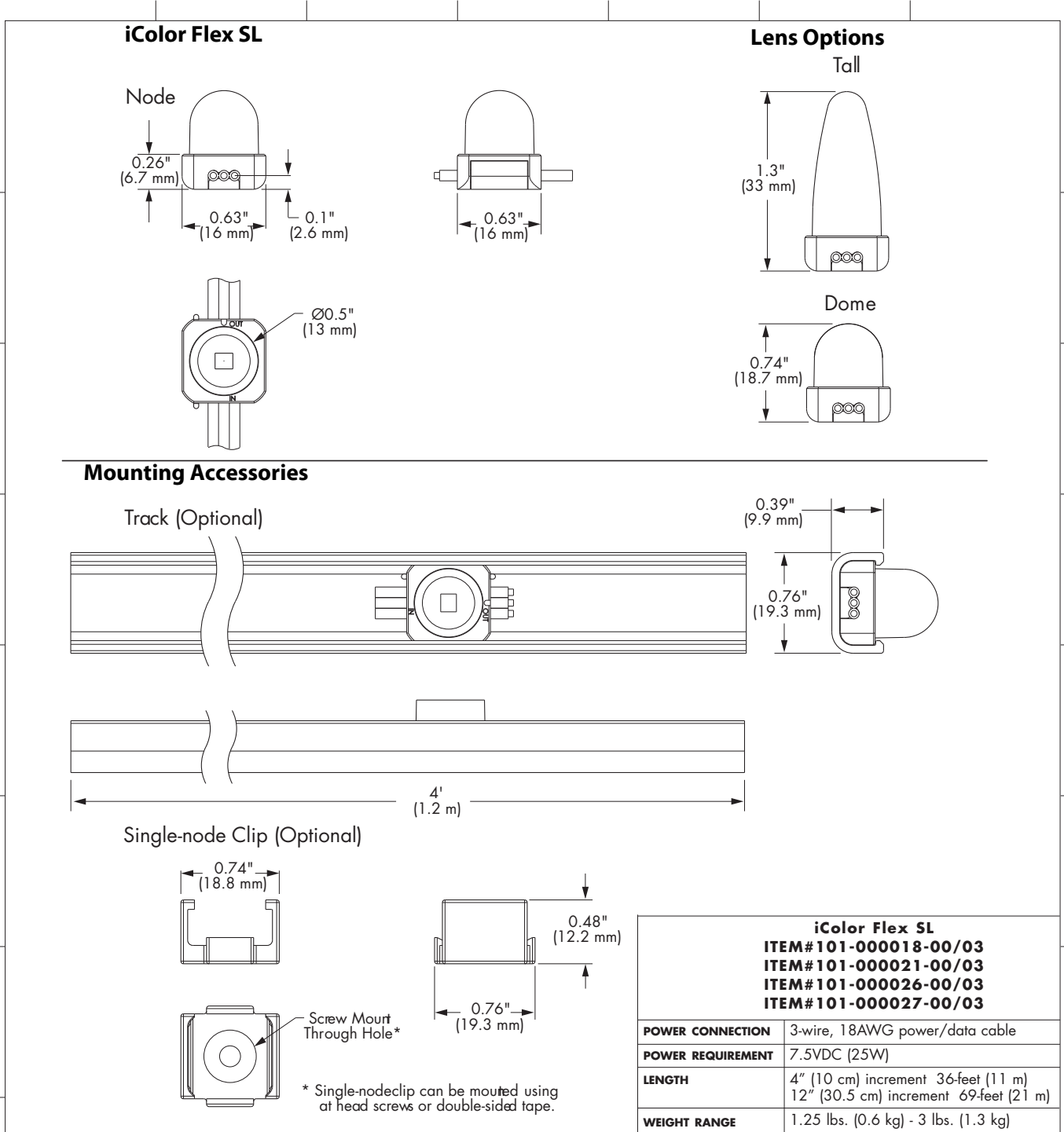
CANDELA DISTRIBUTION



Measured on: White
Beam center: 1.0 cd
Thin dashed line: Indicates 50% of peak

iCOLOR FLEX SL

PHYSICAL DIMENSIONS



OPTIBIN®

There are inherent variations in the fabrication processes of all semiconductor materials. For LEDs, this variance results in differences in the color and intensity of light output as well as electrical characteristics. Due to these differences, LED manufacturers sort production into "bins," but insuring the availability of a single bin is very difficult. To minimize this issue and achieve optimal color consistency in its products, Color Kinetics has developed and uses a proprietary technology called Optibin. Optibin is an advanced production binning optimization process that minimizes the effects of LED variance for the best possible output uniformity in the final product. Color Kinetics Optibin technology gives the most consistent control of color and intensity from product to product.

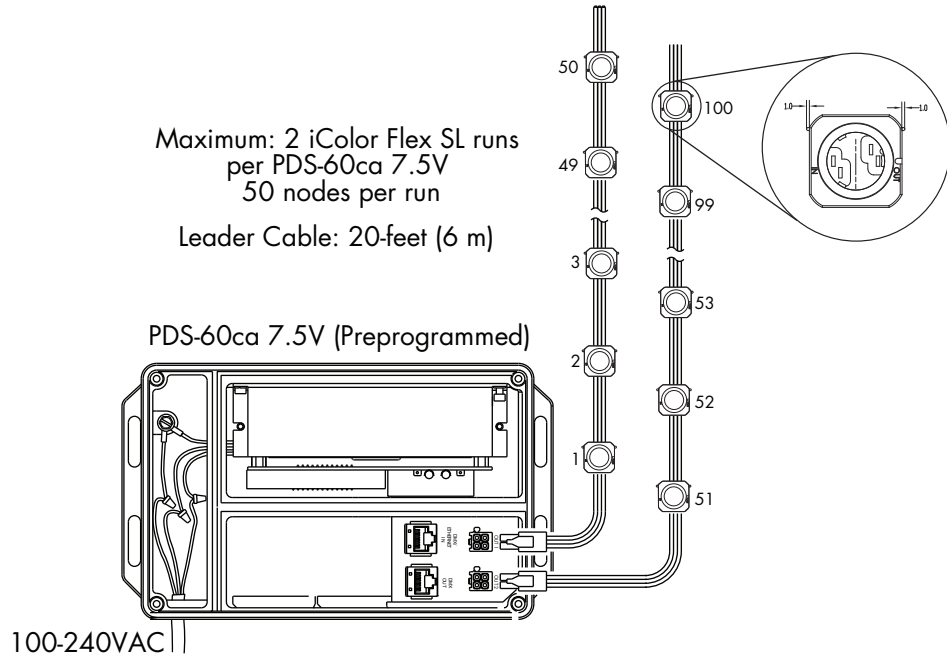
iCOLOR FLEX SL

FUNCTIONAL FLOW DIAGRAM

Preprogrammed Control

Maximum: 2 iColor Flex SL runs
per PDS-60ca 7.5V
50 nodes per run
Leader Cable: 20-feet (6 m)

PDS-60ca 7.5V (Preprogrammed)



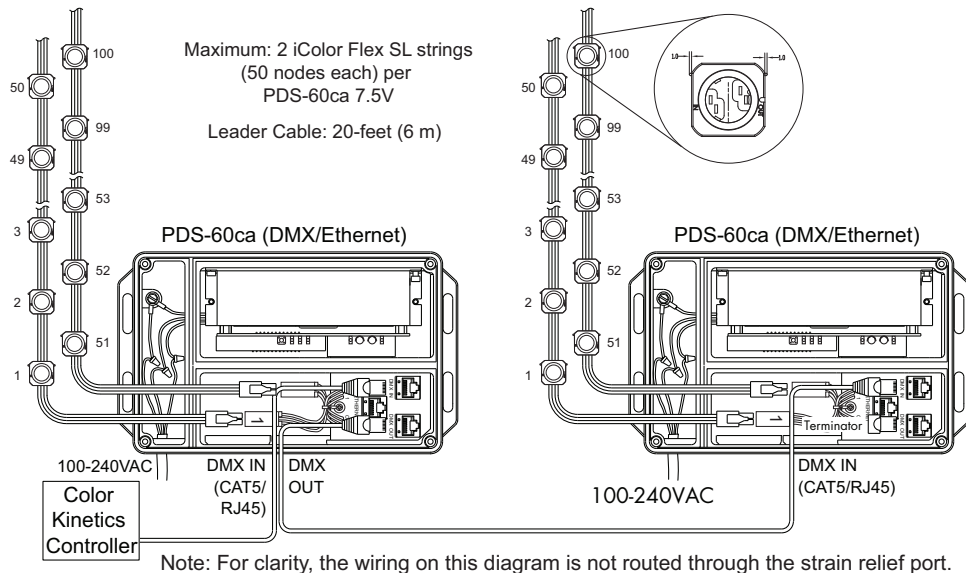
For complete installation instructions and safety precautions, refer to the iColor Flex SL User Guide and wiring diagrams located at www.colorkinetics.com/support.

Additional Items	
POWER/DATA SUPPLY	PDS-60ca 7.5V (109-000015-00/03)
CONTROLLER	Light System Manager (103-000015-00) or iPlayer [®] 2 (103-000007-00/01)

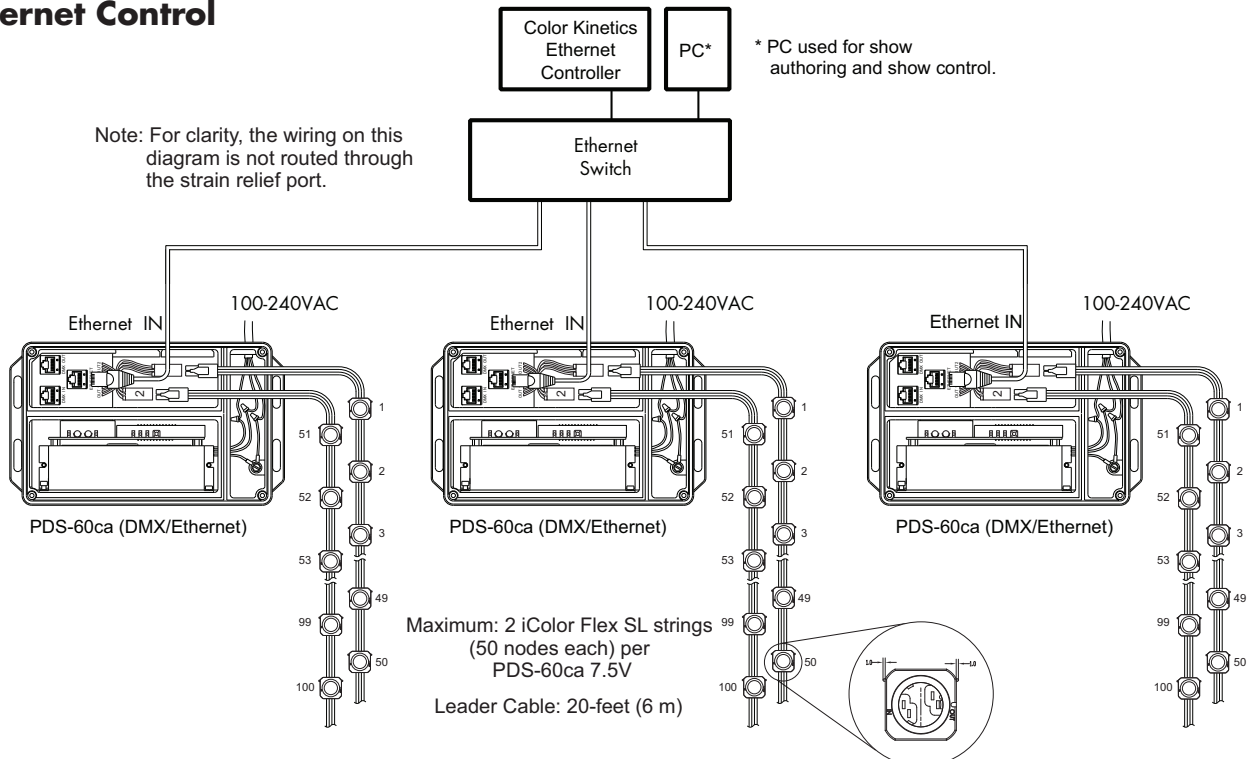
iCOLOR FLEX SL

FUNCTIONAL FLOW DIAGRAM

DMX Control



Ethernet Control



For complete installation instructions and safety precautions, refer to the iColor Flex SL User Guide and wiring diagrams located at www.colorkinetics.com/support.

Additional Items

POWER/DATA SUPPLY	PDS-60ca 7.5V (109-000015-00/03)
CONTROLLER	Light System Manager (103-000015-00) or iPlayer [®] 2 (103-000007-00/01)