

# liniLED<sup>®</sup> PSP (Power Short Pitch)

FLEXIBLE LINEAR LED MODULE - 79 LUMENS/W – < 3W/FT.



## POWER SHORT PITCH WHITE SPECIFICATION



Specification grade waterproof flexible linear LED light strip providing the illumination levels of high output LEDs from multiple miniature LEDs for very low energy (< 3W/ft.). No UV or IR. liniLED<sup>®</sup> can be applied both indoors and outdoors. Co-extruded with built in reflectors the highly flexible UV stabilized, optically clear PVC seals the LEDs for permanent protection against adverse environments and handling. Rapid mounting in long runs with "Solder free" push-fit connections.

Specially designed circuitry guarantees optimal controlled output by modifying and stabilizing input every section, ensuring color stability and exceptionally cool operation for longest LED life.

1-10v or Pulse Width Modulation dimmable for smooth dimming.

Plug and Play system design simplifies installation and specification.

Manufactured in the EU/USA, RoHS. UL, ETLcs, CE

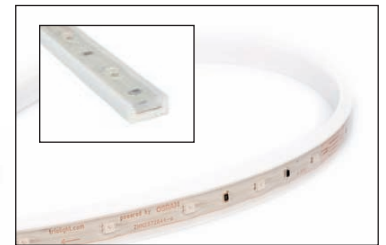
Cold White 6500K	Natural White 4000K	Warm Whit 3000K	Warm White 2700K

### liniLED TOP

Extruded reflector with optically clear encapsulation of LEDs.

Dimensions: 1/4" h x 1/2" w

Curving Direction:

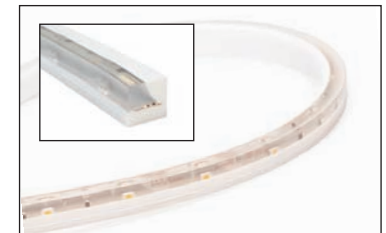
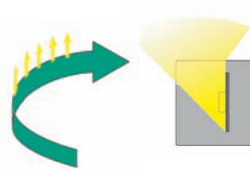


### liniLED SIDE

Extruded reflector with optically clear encapsulation of LEDs.

Dimensions: 1/2" h x 1/2" w

Curving Direction:

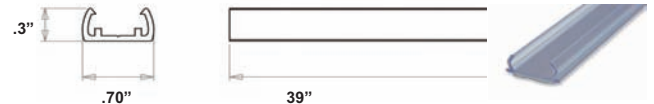


## liniLED PSP - WHITE

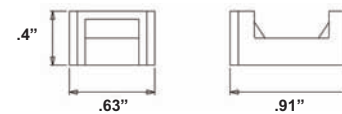
LED	SMD OSRAM Duris™ E3
Number of LEDs	3 per in/ 37 per ft
LED Color	Cold White, 6.5k / Natural White 4k / Warm White, 3k Warm White 2.7k CRI 85
Beam / Flux	110°; Cold & Natural White - 257.9 lumen/ft Warm White - 237.8 lumen/ft
Dimensions	TOP: H 0.25" x W 0.50" (H6xW12mm)
Length (m)	Up to 19ft (6m) continuous runs, field cuttable every 2" (5cm). 164ft reel
Bend Radius	1.2" (30mm)
Indoor or Outdoor (IP68)	Wet location (protected connectors)
Watts and Voltage	24VDC; < 3 W/ft. (9.7W/m); ETL / CE
Material	UV/IR protected PVC.
Dimmable	1-10v or Pulse Width Modulation.
Life	>50,000 hours ; 2 years limited warranty
24VDC	Select appropriate wattage power supplies, according to run length and number of runs
Accessories	Dimming controllers; Clear PET adhesive backed mounting channel; mounting saddles; power cord sets; extension cords; aluminum extrusions and diffusers

## MOUNTING & DIMENSIONS

**Mounting Channel**, Clear PET self-adhesive backed, grips liniLED tightly for straight runs in minimum space. Apply to coves, surfaces or inside liniLED aluminum extrusions

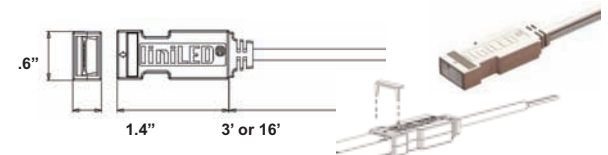


**Mounting saddle**, screws to structure.



### Power Connector Set

push fit connection to 1/4' stripped end of liniLED and secured with a press in staple.



**TECHNICAL DATA**

Description	Length	No. of LEDs (per ft)	V/DC	Current (A)	Color	CRI	Lumens (ft)	CD/ft	W/ft	Bin
Cold White	2" - 19ft	37	24	0.28	6500K	85	257.9		3	Fine
Natural White	2" - 19ft	37	24	0.28	4000K	85	257.9		3	Fine
Warm White	2" - 19ft	37	24	0.28	3000K	85	237.8		3	Fine
Warm White	2" - 19ft	37	24	0.28	2700K	85	237.8		3	Fine

**ORDERING liniLED**

<b>1. PART#</b>	
LIN	
TOP	
Cold White	<b>011734</b>
Natural White	<b>011733</b>
Warm White	<b>011732</b>
Warm White	<b>011731</b>

**liniLED THE DIFFERENCE**

Many people ask how is liniLED different from cheaper Asian made ribbon products. There are so many differences that it would be like describing the inside of a computer so I will try to add to what you can already understand from liniLED catalog sheets.

- It is Specification grade.
- Made entirely in the EU / USA.
- The LEDs are the latest Osram TopLED (made jointly USA and EU). They have the highest light output for the lowest energy and are true energy saving LEDs.

Osram's binning for mid-range LEDs is arguably the best in the world, which means that the color matching both initially and for the life of the LEDs is consistent. This is critical if you ever want to add to a project later. You are probably familiar with the color shift problems lamp to lamp of metal halide which produce those ugly spots of different colors on a wall. Unless you have "fine" binning the effect is worse with white LEDs. (There are endless levels of binning which produce cheaper and cheaper LEDs with greater and greater inconsistency of color and with different forward voltage requirements to drive them). The bottom line is that you get what you pay for.

The liniLED circuit is a patented custom design with the highest quality electronics possible and has an IC every 8" to further control the input to the LEDs to ensure that they are driven as precisely as possible as additional protection against color shift and reduced life of individual LEDs.

Osram/Siemens manufacture this for us which ensures the quality and you will see their name on the product alongside ours as our partner. liniLED is a superior product to their normal standards.

A simple but convincing test is to run liniLED and hold the strip in your hand. There will be no perceptible heat in comparison with other products. With LEDs heat is the killer!

There are great misunderstandings about LED lighting applications. One of the most common misunderstandings is that you can place LEDs in inaccessible places because they are solid state, are shockproof and have a long life. LEDs are all of that, but they are operated by computerized electronic circuits on PC boards with many more components. The question you should ask yourself is "Would you place your laptop in an outdoor -or inaccessible position and expect it to be problem free for years and years?"

In a nutshell, LED luminaires are electronic circuits and the LEDs are only as good as the other components driving them, and everything is dependent on the quality of manufacturing.

liniLED is the best money can buy! Our design and automated production makes it affordable and the least expensive of any similar product to install.

For a full list of components and accessories see [Accessories page](#).

## 1. SELECT PRODUCT AND COLOR



### liniLED Top PSP

- Choose run length
- Dimensions 1/4" h x 1/2" w
- Max. 19' continuous run
- Cuttable length 2"
- Minimum order 3'

### Specify Color

Cool White 6500K	<b>011734</b>
Natural White 4000K	<b>011733</b>
Warm White 3000K	<b>011732</b>
Warm White 2700K	<b>011732</b>



### liniLED Side PSP

- Choose run length
- Dimensions 1/2" h x 1/2" w
- Max. 19' continuous run
- Cuttable length 2"
- Minimum order 3'

### Specify Color

Cool White 6500K	<b>011738</b>
Natural White 4000K	<b>011737</b>
Warm White 3000K	<b>011736</b>
Warm White 2700K	<b>011735</b>

## 2. CONNECTING



### Power Connector

Supplied with termination end cap

3' Mono Color TOP	<b>011786</b>
16' Mono Color TOP	<b>011788</b>
3' RGB TOP	<b>011745</b>
16' RGB TOP	<b>011746</b>
3' Mono Color SIDE	<b>011767</b>
16' Mono Color SIDE	<b>011768</b>
3' RGB SIDE	<b>011771</b>
16' RGB SIDE	<b>011772</b>



### Inline Connector to Connect Strips

Mono Color TOP	<b>011790</b>
RGB TOP	<b>011747</b>
Mono Color SIDE	<b>011769</b>
RGB SIDE	<b>011773</b>



### Extension Cord

Connects extension cord to connect strips with 10" cable in between.

Mono Color Top	<b>011792</b>
RGB Top	<b>011748</b>
Mono Color Side	<b>011770</b>
RGB Side	<b>011774</b>



### Protective End Cap

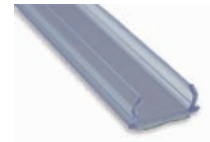
End Cap Top	<b>011503</b>
End Cap Side	<b>011504</b>



### Submersible Converter Cover IP68

**011533**

## 3. MOUNTING



### Mounting Channel

**011369**

Clear PET Self-adhesive backed, grips tightly for straight runs in minimum space. Apply to coves, surfaces or inside liniLED aluminum extrusions with diffusing lenses.



### Mounting Saddle

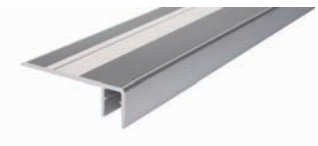
**011375**

## EXTRUSIONS



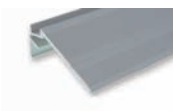
### Wall/Floor Extrusion

Silver	<b>011593</b>
Black	<b>011595</b>



### Stair Extrusion, Direct View

Silver	<b>011836</b>
Black	<b>011837</b>



### Stair Extrusion, Indirect View

Silver	<b>011836</b>
Black	<b>011837</b>



### Cove Extrusion

Indirect white	<b>012809</b>
Indirect transparent	<b>011591</b>



### End Cap for Cove Extrusion

left	<b>011571</b>
right	<b>011573</b>

#### 4. POWERING AND RUN LENGTH



##### Power Supply Indoor/Outdoor

Watts	Mono	RGB	
20W	18'	12'	011310
30W	27'	18'	011307
60W	54'	36'	011315
100W	90'	60'	011321
150W	135'	90'	011327
240W	216'	144'	011331

##### Dimmable Supply

Watts	Mono	RGB	
30W	27'	18'	011308
60W	54'	36'	011314
100W	90'	60'	011322
150W	135'	90'	011328
240W	216'	144'	011332



##### Plug In Power Supply Indoor

Watts	Mono	RGB	
120W	110'	66'	011323



##### Power Supply Indoor

Watts	Mono	RGB	
320W	288'	192'	011335
500W	450'	300'	011339



##### Weatherproof Multi-Power Box

12"x12"x 6" with 9, 5/16" liquid tight outputs

Watts	Mono	RGB	
120W	108'	72'	011850
240W	216'	144'	011851
480W	432'	288'	011852

#### 5. CONTROLLING



##### Dimmer With On/Off Push Switch 011455

Dims standard power supplies; Max. 280W @ 24VDC



##### DIMWHEEL/COLOR Wall 011342

Programmable On/Off RGB color wheel for LIN100/180/720; 10A. 24VDC



##### Waterproof IP67 Dimmer 011457

With separate On/Off push switch 10A. 24VDC



##### Weatherproof RGB Multistrip Box Controller System

12"x12"x 6" with 9, 5/16" liquid tight outputs

Watts	RGB	
120W	72'	011853
240W	144'	011854
480W	288'	011855



##### RGB Stand-Alone Controller 011810

For demo or wall box mounting; Max. 115W @ 24VDC



##### LIN100A1 100W DMX RGB/Dim 011341

Controller / Power Supply Unit Max. 100W @ 24VDC; Onboard and remote addressing & programming; DMX/Dali/0-10V



##### LIN180D2 180W DMX RGB/Dim 011344

Controller Max. 180W @ 24VDC; Onboard and remote addressing & programming; DMX/Dali/0-10V



##### LIN720D2 720W DMX RGB/Dim 011345

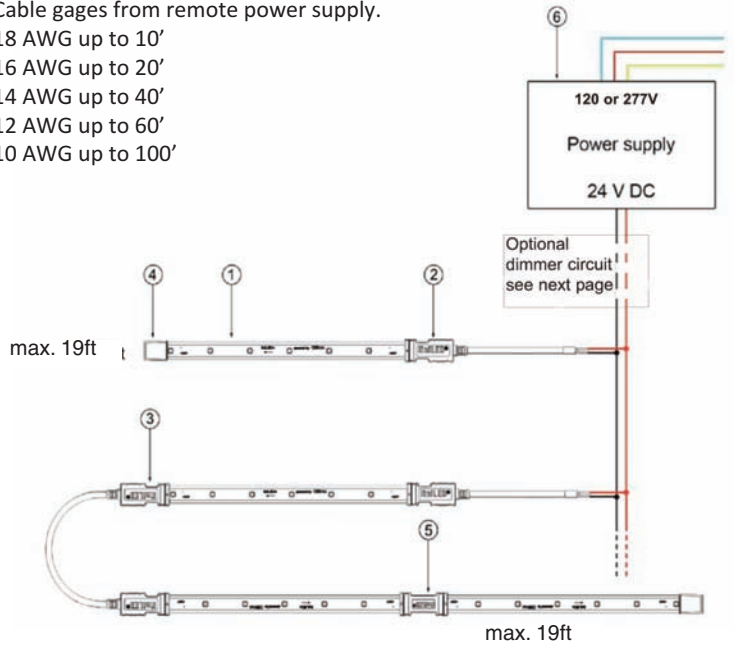
Controller Max. 720W @ 24VDC; Onboard and remote addressing & programming; DMX/Dali/0-10V

**POWER SHORT PITCH WHITE SPECIFICATION**

**CONNECTION DIAGRAM**

**PSP WHITE**

Cable gages from remote power supply.  
 18 AWG up to 10'  
 16 AWG up to 20'  
 14 AWG up to 40'  
 12 AWG up to 60'  
 10 AWG up to 100'



**SPECIFYING AND INSTALLATION**

**Installing:**

liniLED PSP is easy to specify and simple to install. It can be cut every 2" and continuous lengths up to 19ft can be run from the power supply. (1)

**Power Supplies / Controls – 24V.DC Constant Voltage: (6)**

Check the Power Supplies Guide and select dimmable or non dimming Power Supplies corresponding to the run lengths. Select the Organic Lighting Dimming controls, if required.

**Power Cords with Connector: (2)**

Select the power Connector cord sets, either 3'3" or 16'3" long to match the number of runs (endcaps supplied (4)) Bends can be made with 10" extension leads (3) Interconnection can be made with Inline connectors (5) Waterproof connections require the connectors to be protected with a liniLED Connector Cover supplied with a resin glue which protects connections to IP68.

**Mounting:**

Clear PET adhesive backed mounting channel which can be cut to length, enable quick mounting on smooth surfaces, or select screw on mounting saddles.

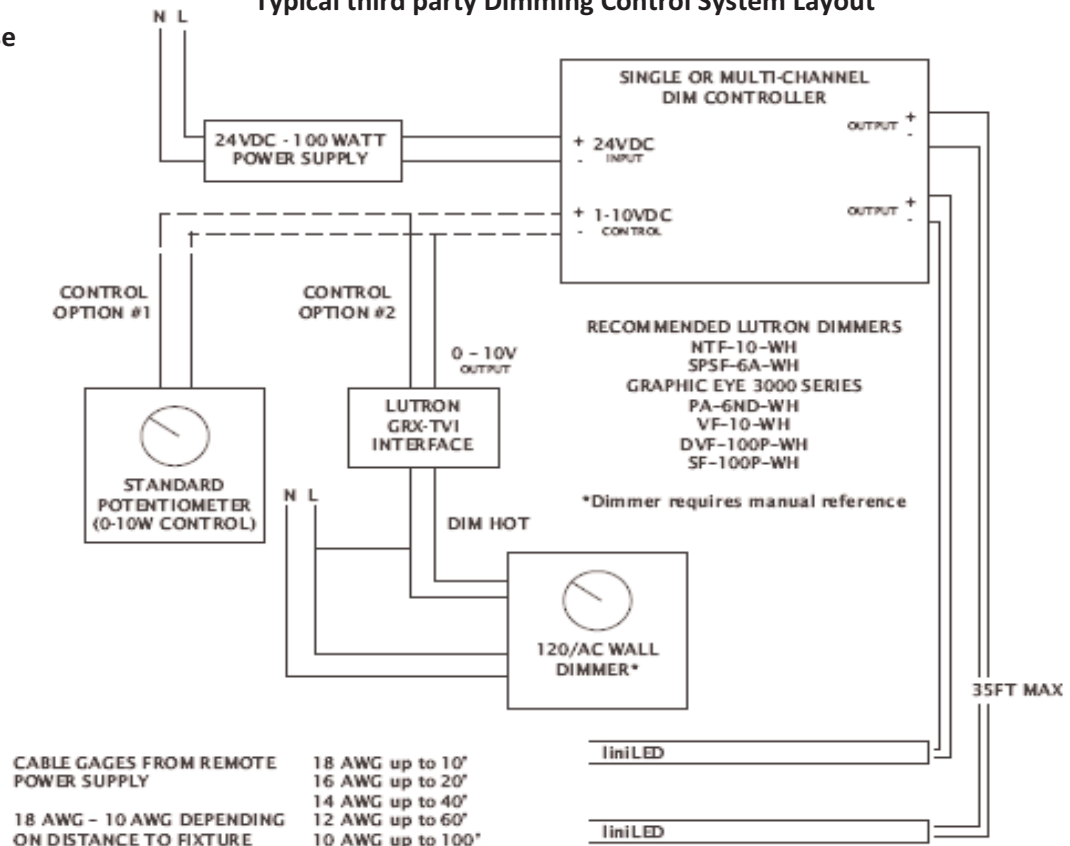
Extruded aluminum housings are available for surface or recessed mounting, creating coves, step extrusions for direct view or indirect illumination and under cabinet/wall mounting extrusions can be specified.

**liniLED PSP WHITE DIMMING CONTROL**

liniLED is dimmable using 1-10v or Pulse Width Modulation (PWM).

- Dim with simple 1-10V dimmers or DMX/RDM dimmer controls.
- Dim only on the DC side.
- Magnetic power supplies and dimming on the AC side will not work.

**Typical third party Dimming Control System Layout**





TRIMMING AND CONNECTING

