

Features

The LineLED Monochromatic is a small profile and energy efficient colored light strip available in amber, red, green, blue, yellow, violet, and royal blue. It is easily installed directly on to the mounting surface with double sided tape or within discrete mounting extrusions.



LL42

Mounting

LED strip is equipped with 3M™ adhesive transfer tape (9472LE).

Applications

Indoor only - millwork, cove, architectural reveals, undercabinet, display case, handrail, accent lighting.

Approvals

Class 2 damp listed

Operating voltage

24 VDC

Average Life (L70)

50,000 hours

Warranty

7 years



Technical information

TYPE	LL42
OUTPUT OPTIONS	HO
Average Power Consumption (for a 4" section)	2.9 W/ft
Cutting Increment (in)	1.97"
Pitch Length	0.28"
Max Run Length (in series)	40 ft
Dimensions	0.39"W x 0.09" H
Ambient Operating Temperature Range*	-5°F - 125°F (- 20°C - 50°C)

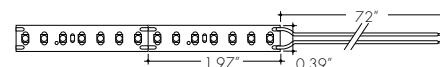
*Ambient Operating Temperature Range to maintain L70 of 50K+ hours in normal conditions. Exceeding Ambient Operating Temperature Range may result in decreased life/output. Consult Technical Support for specific inquiries.

COLOR	Wavelength	Light Output	Light Color
Red	620-630 nm	77 lm/ft	
Orange	600-610 nm	77 lm/ft	
Amber	585-595 nm	83 lm/ft	
Yellow	575-585 nm	310 lm/ft	
Green	520-530 nm	296 lm/ft	
Blue	465-475 nm	51 lm/ft	
Royal Blue	445-450 nm	40 lm/ft	
Violet	380-385 nm	91 lm/ft	

Section Start/End Options

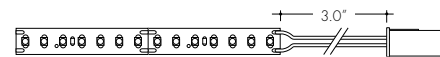
SL

Soldered lead wires (72")



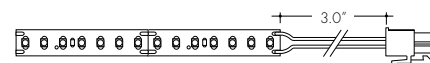
LF

Lead Female 3" cable



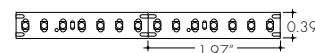
LM

Lead Male 3" cable



NC

No connector



Ordering code

MODEL	OUTPUT	COLOR	SECTION START ²	SECTION END ²	LENGTH
LL42 ¹ - LineLED LL42	HO - High	R - Red O - Orange A - Amber Y - Yellow G - Green B - Blue RB - Royal Blue V - Violet	SL - Soldered lead wires (72") NC - No connector LM - Lead Male LF - Lead Female	SL - Soldered lead wires (72") NC - No connector LM - Lead Male LF - Lead Female	Ordered in one foot increments. See chart above for max run length.

1 - LL42 monochrome lead time: 8 weeks upon order. Minimum order quantity: 100ft

2 - Additional Connectors and Leads available, see below.

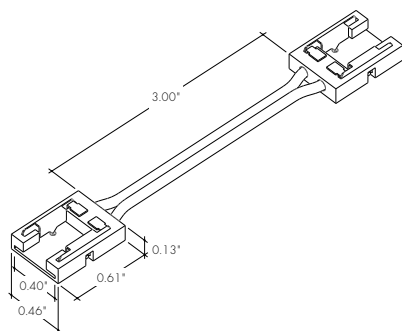
Minii Connectors

Minii connectors are easy, field-installable accessories that make joining LL strip simple! Their minimal width allows them to fit into extrusions, while their transparent frame eliminates dark spots.

Note: verify internal extrusion dimensions to confirm compatibility

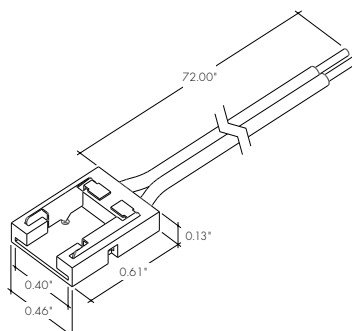
LL-PJC-10-03

Jumper minii connector with 3" wire for LL42 LED strip



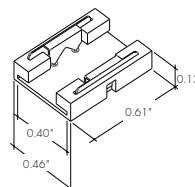
LL-PFC-10-72

Power feed minii connector with 72" wire for LL42 LED strip

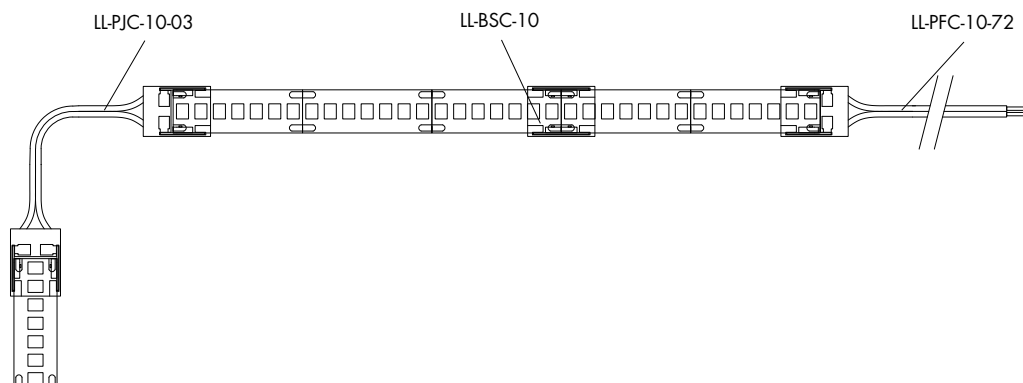


LL-BSC-10

Butt splice minii connector for LL42 LED strip



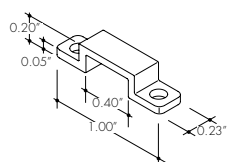
Sample Layout



Accessories

CL1

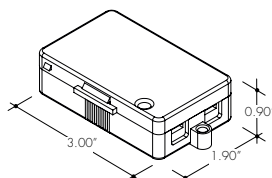
Mounting clip



Recommended every 12" when LineLED strip is facing down

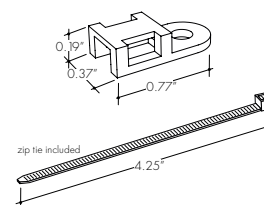
LVSP-4T-BK

Low Voltage, 4 Terminal Splice Box, Black, IP20



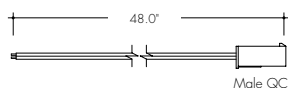
LL.ZIP

Cable/Wire Strain Relief Clip



MOLEX-CON-LEAD-M-2-48

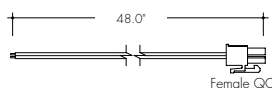
Molex Male Connector Cable, 2 pin, 48"



For power supply connection, not intended to be soldered to LED strip

MOLEX-CON-LEAD-F-2-48

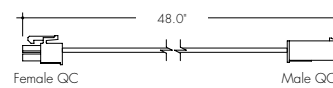
Molex Female Connector Cable, 2 pin, 48"



For power supply connection, not intended to be soldered to LED strip

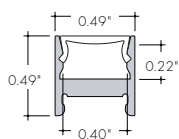
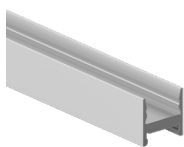
MOLEX-JC-F-M-2-48

Female/Male Jumper Cable, 2 pin, 48"



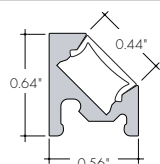
For connecting LED strips in series

Lens Options / Light Transmission

**MK CHANNEL
-MKC**[\(Link to Web\)](#)

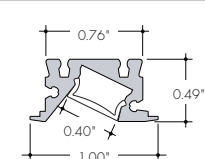
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	CD	CD	ND	ND	CD

*At 100% brightness

NOT Compatible with
- Minii connectors
**MK45V CHANNEL
-MK45VC**[\(Link to Web\)](#)

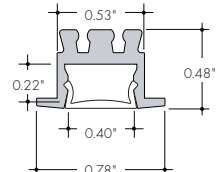
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	CD	CD	ND	ND	CD

*At 100% brightness

NOT Compatible with
- Minii connectors
**MKRA CHANNEL
-MKRAC**[\(Link to Web\)](#)

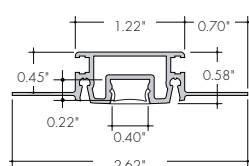
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	CD	CD	ND	ND	CD

*At 100% brightness

NOT Compatible with
- Minii connectors
**MKR CHANNEL
-MKRC**[\(Link to Web\)](#)

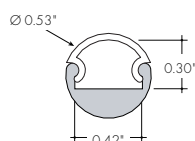
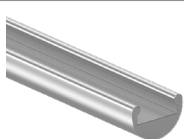
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	CD	CD	ND	ND	CD

*At 100% brightness

NOT Compatible with
- Minii connectors
**MKL CHANNEL
-MKLC**[\(Link to Web\)](#)

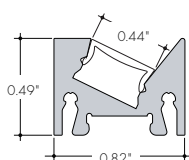
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	CD	CD	ND	ND	CD

*At 100% brightness

NOT Compatible with
- Minii connectors
**MKRO CHANNEL
-MKROC**[\(Link to Web\)](#)

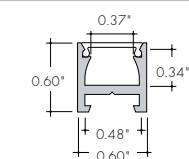
Lens	Round Frosted
Transmission %	64%
Dotting*	CD

*At 100% brightness

NOT Compatible with
- Minii connectors
**MKA CHANNEL
-MKAC**[\(Link to Web\)](#)

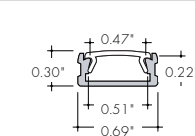
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	47%	24%	40%	60%
Dotting*	CD	CD	CD	ND	ND	CD

*At 100% brightness

NOT Compatible with
- Minii connectors
**BOS CHANNEL
-BOSC**[\(Link to Web\)](#)

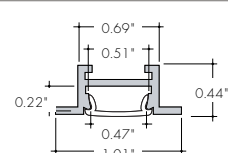
Lens	Frosted	Raised	Graze	Satin Ice
Transmission %	52%	57%	76%	71%
Dotting*	ND	ND	CD	CD

*At 100% brightness

NOT Compatible with
- Minii connectors
**KS CHANNEL
-KSC**[\(Link to Web\)](#)

Lens	Clear	Half Frosted	Frosted	Flat Frosted	Raised	Medium
Transmission %	90%	71%	56%	56%	64%	85%
Dotting*	CD	CD	CD	CD	ND	CD

*At 100% brightness

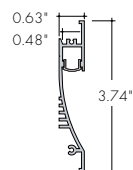
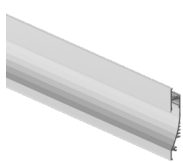
NOT Compatible with
- Minii connectors
**KRS CHANNEL
-KRSC**[\(Link to Web\)](#)

Lens	Clear	Half Frosted	Frosted	Flat Frosted
Transmission %	90%	71%	56%	56%
Dotting*	CD	CD	CD	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

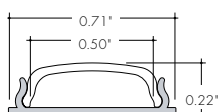
Lens Options / Light Transmission

**WALL+ CHANNEL
-WPC**[\(Link to Web\)](#)

Lens	Round Frosted
Transmission %	65%
Dotting*	CD

* At 100% brightness

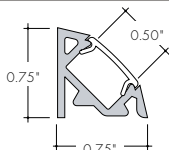
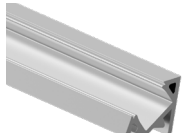
NOT Compatible with
- Minii connectors

**KLB CHANNEL
-KLBC**[\(Link to Web\)](#)

Lens	Round Frosted
Transmission %	57%
Dotting*	CD

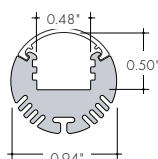
* At 100% brightness

NOT Compatible with
- Minii connectors

**K45V CHANNEL
-K45VC**[\(Link to Web\)](#)

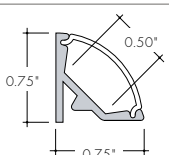
Lens	Clear	Half Frosted	Frosted	Flat Frosted	13° Semi-Frosted
Transmission %	82%	65%	51%	47%	76%
Dotting*	CD	CD	ND	ND	CD

* At 100% brightness

**RO CHANNEL
-ROC**[\(Link to Web\)](#)

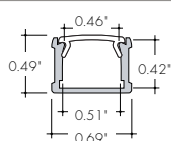
Lens	Clear	Frosted
Transmission %	86%	67%
Dotting*	CD	ND

* At 100% brightness

**K45R CHANNEL
-K45RC**[\(Link to Web\)](#)

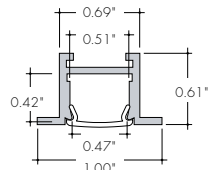
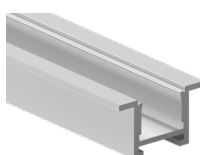
Lens	Round Frosted
Transmission %	65%
Dotting*	ND

* At 100% brightness

**KM CHANNEL
-KMC**[\(Link to Web\)](#)

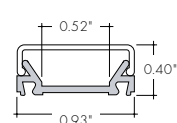
Lens	Clear	Half Frosted	Frosted	Flat Frosted	Raised	Narrow Beam Grazer
Transmission %	82%	65%	51%	47%	58%	56%
Dotting*	CD	CD	ND	ND	ND	CD

* At 100% brightness

**KRM CHANNEL
-KRMC**[\(Link to Web\)](#)

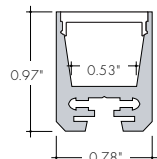
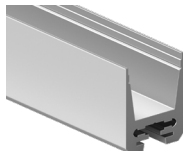
Lens	Clear	Half Frosted	Frosted	Flat Frosted	Narrow Beam Grazer
Transmission %	82%	65%	51%	47%	56%
Dotting*	CD	CD	ND	ND	CD

* At 100% brightness

**BAR CHANNEL
-BARC**[\(Link to Web\)](#)

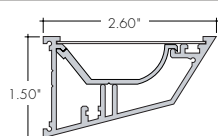
Lens	Frosted	Narrow Beam	Medium	Batwing	Asymmetric
Transmission %	65%	63%	56%	74%	56%
Dotting*	CD	CD	CD	CD	CD

* At 100% brightness

**ALS20 CHANNEL
-ALS20C**[\(Link to Web\)](#)

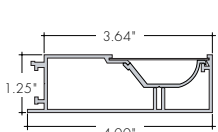
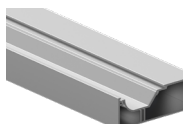
Lens	Clear	Frosted
Transmission %	54%	49%
Dotting*	CD	ND

* At 100% brightness

**MCAL CHANNEL
-MCALC**[\(Link to Web\)](#)

Lens	Long Throw	Tall Throw
Transmission %	91%	91%
Dotting*	CD	CD

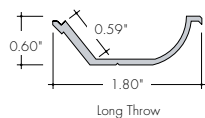
* At 100% brightness

**MREC CHANNEL
-MRECC**[\(Link to Web\)](#)

Lens	Long Throw	Tall Throw
Transmission %	91%	91%
Dotting*	CD	CD

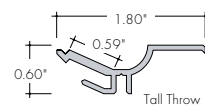
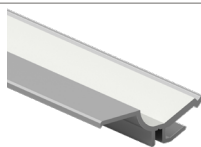
* At 100% brightness

Lens Options / Light Transmission

**CLT CHANNEL
-CLTC**[\(Link to Web\)](#)

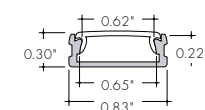
Lens	No Lens
Transmission %	100%
Dotting*	CD

*At 100% brightness

**CTT CHANNEL
-CTTC**[\(Link to Web\)](#)

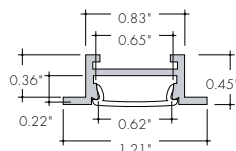
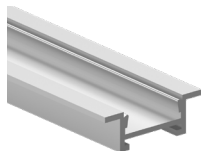
Lens	No Lens
Transmission %	100%
Dotting*	CD

*At 100% brightness

**KL CHANNEL
-KLC**[\(Link to Web\)](#)

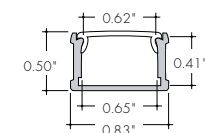
Lens	Clear	Half Frosted	Frosted
Transmission %	90%	75%	60%
Dotting*	CD	CD	CD

*At 100% brightness

**KRL CHANNEL
-KRLC**[\(Link to Web\)](#)

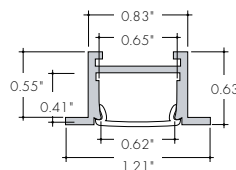
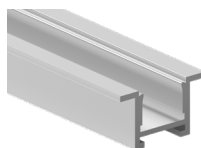
Lens	Clear	Half Frosted	Frosted
Transmission %	90%	75%	60%
Dotting*	CD	CD	CD

*At 100% brightness

**KXL CHANNEL
-KXLC**[\(Link to Web\)](#)

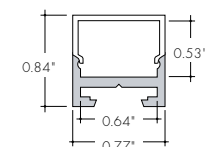
Lens	Clear	Half Frosted	Frosted
Transmission %	86%	69%	54%
Dotting*	CD	CD	ND

*At 100% brightness

**KRXL CHANNEL
-KRXL**[\(Link to Web\)](#)

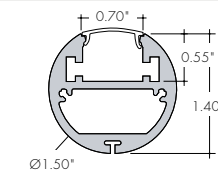
Lens	Clear	Half Frosted	Frosted
Transmission %	86%	69%	54%
Dotting*	CD	CD	ND

*At 100% brightness

**CLA CHANNEL
-CLAC**[\(Link to Web\)](#)

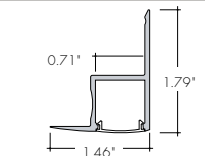
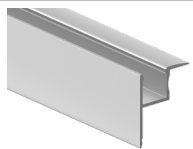
Lens	Rounded Square Frosted	Square Frosted
Transmission %	62%	65%
Dotting*	ND	ND

*At 100% brightness

**RO15 CHANNEL
-RO15C**[\(Link to Web\)](#)

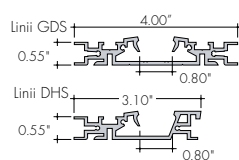
Lens	Clear	Frosted
Transmission %	76%	50%
Dotting*	CD	ND

*At 100% brightness

**ALE CHANNEL
-ALEC**[\(Link to Web\)](#)

Lens	Clear	Frosted
Transmission %	58%	37%
Dotting*	CD	ND

*At 100% brightness

**LIN CHANNEL
-LINC**[\(Link to Web\)](#)

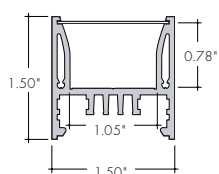
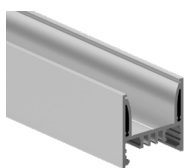
Lens	Frosted	Frosted Silicone	No Lens
Transmission %	48%	56%	82%
Dotting*	ND	ND	CD

*At 100% brightness

Lens Options / Light Transmission

KILO CHANNEL -KILOC

[\(Link to Web\)](#)

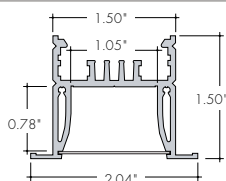
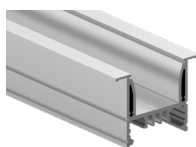


Lens	Clear	Frosted	No Lens
Transmission %	85%	75%	90%
Dotting*	CD	ND	CD

*At 100% brightness

KILOR CHANNEL -KILORC

[\(Link to Web\)](#)

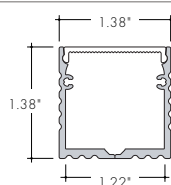
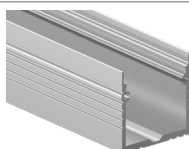


Lens	Clear	Frosted	No Lens
Transmission %	85%	75%	90%
Dotting*	CD	ND	CD

*At 100% brightness

PLA CHANNEL -PLAC

[\(Link to Web\)](#)



Lens	Clear	Frosted
Transmission %	56%	34%
Dotting*	CD	ND

*At 100% brightness

Installation

All mounting channels are field cuttable using miter saw with circular blade suitable for cutting aluminum.

Ordering

Extrusions are sold separately. View respective specsheets for details on ordering extrusions and their accessories (endcaps, mounting brackets, etc).

Led Dotting Reference

Use complete Dotting Chart Tool online for more dotting information

Dotting Chart Tool



I'm also click-able



CD - Clear Dotting



SD - Slight Dotting



ND - No Dotting

Power Consumption

Tested at full power with PDC Series power supplies.

Nominal Length (in)	LL42-HO	
	W/ft	Total Wattage
1	2.9	2.9
2	2.9	5.9
3	2.9	8.3
4	2.9	11.2
5	2.9	14.4
6	2.9	17.8
7	2.9	20.9
8	2.9	23.3
9	2.8	25.5
10	2.8	28.1
11	2.8	30.5
12	2.7	32.9
13	2.7	35.6
14	2.7	38.0
15	2.7	40.6
16	2.5	40.8
17	2.5	42.9
18	2.5	45.3
19	2.5	47.4
20	2.4	48.7
21	2.4	49.8
22	2.4	53.0
23	2.3	53.7
24	2.3	55.6
25	2.3	58.2
26	2.3	58.4
27	2.2	59.9
28	2.2	62.3
29	2.2	64.4
30	2.2	66.4
31	2.1	66.4
32	2.2	69.1
33	2.1	70.8
34	2.1	71.5
35	2.1	73.1
36	2.2	80.1
37	2.2	82.6
38	2.2	82.7
39	2.2	84.7
40	2.1	85.2

Voltage Drop Calculator

The below chart assumes nominal voltage of 24 Volts and a Voltage Drop Allowance of 3% through the wire

Wattage [W]	Maximum Wire Length From Power Supply to Start of Run [ft]						
	12 AWG	14 AWG	16 AWG	18 AWG	20 AWG	22 AWG	24 AWG
5	1088.2	684.4	430.3	270.6	170.2	107.1	67.3
10	544.1	342.2	215.1	135.3	85.1	53.5	33.7
15	362.7	228.1	143.4	90.2	56.7	35.7	22.4
20	272.0	171.1	107.6	67.7	42.6	26.8	16.8
25	217.6	136.9	86.1	54.1	34.0	21.4	13.5
30	181.4	114.1	71.7	45.1	28.4	17.8	11.2
35	155.5	97.8	61.5	38.7	24.3	15.3	9.6
40	136.0	85.5	53.8	33.8	21.3	13.4	8.4
45	120.9	76.0	47.8	30.1	18.9	11.9	7.5
50	108.8	68.4	43.0	27.1	17.0	10.7	6.7
55	98.9	62.2	39.1	24.6	15.5	9.7	6.1
60	90.7	57.0	35.9	22.6	14.2	8.9	5.6
65	83.7	52.6	33.1	20.8	13.1	8.2	5.2
70	77.7	48.9	30.7	19.3	12.2	7.6	4.8
75	72.5	45.6	28.7	18.0	11.3	7.1	4.5
80	68.0	42.8	26.9	16.9	10.6	6.7	4.2
85	64.0	40.3	25.3	15.9	10.0	6.3	4.0
90	60.5	38.0	23.9	15.0	9.5	5.9	3.7
96	56.7	35.6	22.4	14.1	8.9	5.6	3.5

Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

For use with Static White

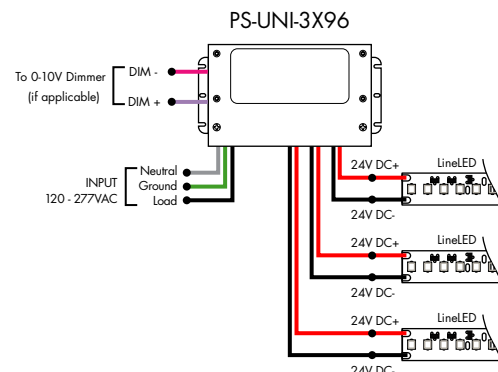
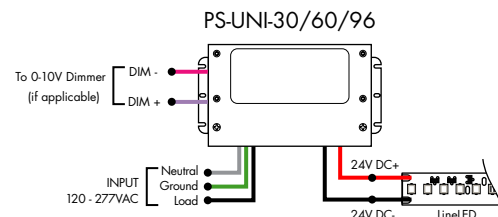
Ordering Code - Universal Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	UNI - 0-10V Dimming (0.1%), Phase Dimming (0.1%)	30 - 30 Watts 60 - 60 Watts 96 - 96 Watts 3x96 - 3x96 Watts	24 - 24 VDC

Compatibility: View a complete list of compatible dimmers on the PS-UNI product page.

0-10V - 0.1% dimming
MLV/ELV/TRIAC - 0.1% dimming, consult dimming compatibility chart

MODELS	PS-UNI-30W	PS-UNI-60W	PS-UNI-96W	PS-UNI-3X96W
Length	6.50"	7.40"	8.66"	11.85"
Width	3.73"	3.73"	3.73"	4.32"
Depth	1.61"	1.61"	1.61"	1.81"

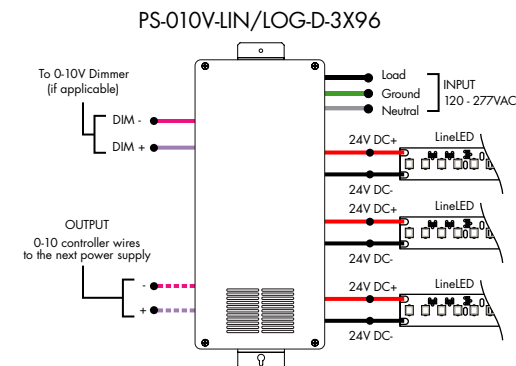
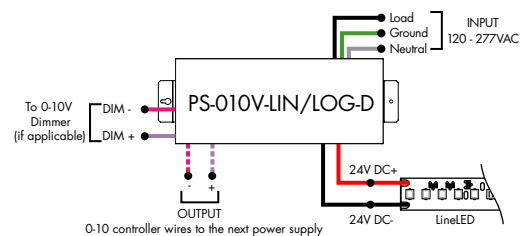


For use with Static White

Ordering Code - 0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	010V-LIN - 0-10V Dimming (0.1%), Linear 010V-LOG - 0-10V Dimming (0.1%), Logarithmic	D - Dry	96 - 96 Watts 3x96 - 3x96 Watts	24 - 24 VDC

MODELS	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.45"



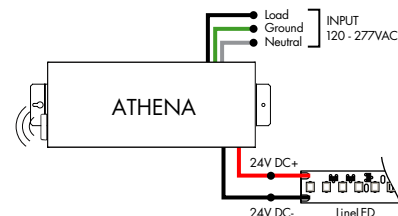
Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

For use with Static White

Ordering Code - Athena 0-10V LED Driver

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT	FEATURE
PS - Power Supply, 120-277VAC	010V-LIN - 0-10V Dimming (0.1%), Linear 010V-LOG - 0-10V Dimming (0.1%), Logarithmic	D-Dry	96-96 Watts	24-24 VDC	AWN-R-Athena

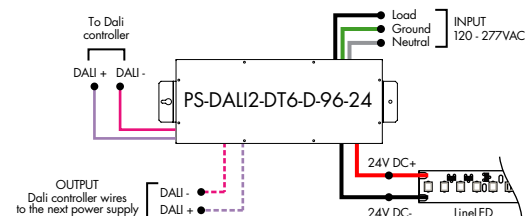


MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"

For use with Static White

Ordering Code - DALI 2 Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	DALI2-DT6 - DALI2 DT6 (0.1%)	D-Dry	96-96 Watts	24-24 VDC

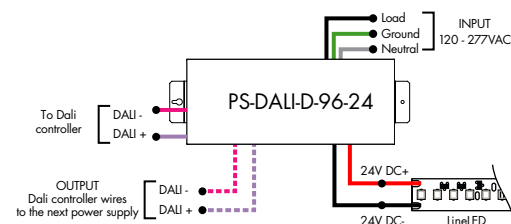


Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"

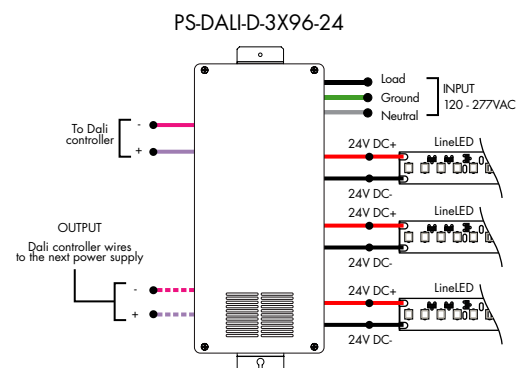
For use with Static White

Ordering Code - DALI Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS - Power Supply, 120-277VAC	DALI - DALI (0.1%)	D-Dry	96-96 Watts 3x96-3x96 Watts	24-24 VDC



Model	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"



Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.

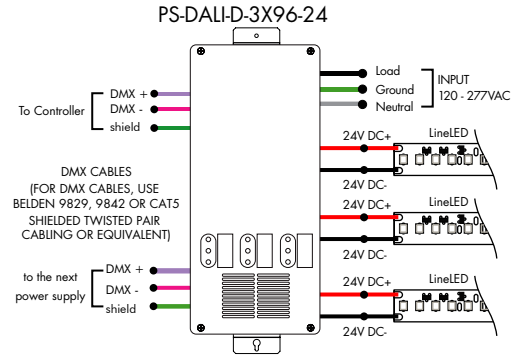
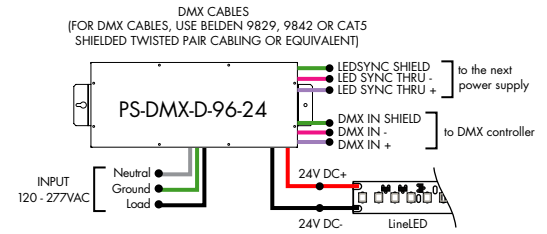
For use with Static White

Ordering Code - DMX Dimming Power Supplies 0.1% 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS-Power Supply, 120-277VAC	DMX-DMX (0.1%)	D-Dry	96-96 Watts 3x96-3x96 Watts	24-24 VDC

MODELS	96W	3X96
Length	14.40"	15.00"
Width	5.20"	6.62"
Depth	2.60"	4.56"

ZONAL CONTROL POWER SUPPLIES.
CONTROL MULTIPLE TAPES/ZONES USING DMX CHANNELS.

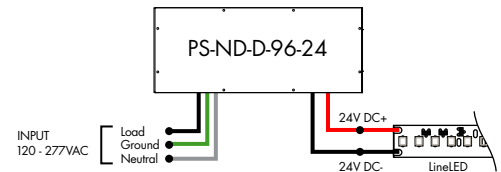


For use with Static White

Ordering Code - Non-Dimming Power Supply, 120VAC - 277VAC

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS-Power Supply, 120-277VAC	ND-Non Dimming	D-Dry	96-96 Watts	24-24 VDC

MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"

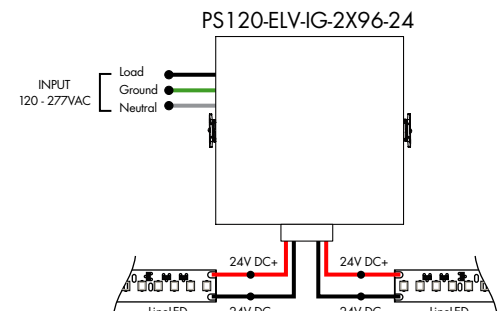


For use with Static White

Ordering Code - In-Ground Power Supplies

MODEL	INPUT CONTROL	ENVIRONMENT	WATTAGE	OUTPUT
PS120-Power Supply, 120VAC PS240-Power Supply, 240VAC PS277-Power Supply, 277VAC	ELV-ELV Dimming (1%)	IG-In Ground	2X96-2X96 Watts	24-24 VDC

MODELS	2X96W
Length	8.40"
Width	8.30"
Depth	8.10"



Power Supplies

See Power Supply instructions and spec sheet for wiring information. For a complete list of compatible dimmers, see Compatible Dimming Chart on the Resources page.



Luminii is a Lutron OEM Advantage Partner

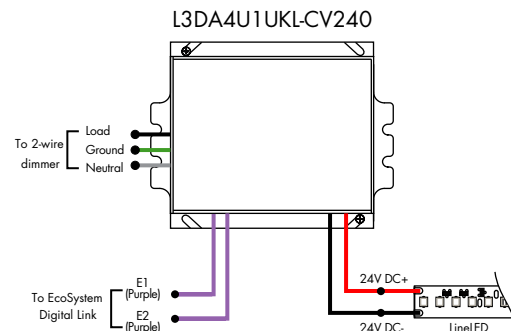
Lutron Power Supplies 1%

MODEL

L3DA4U1UKL-CV240

HiLume™ 1% EcoSystem Voltage LED driver 40W max

MODELS	L3DA4U1UKL-CV240
Length	4.98"
Width	4.00"
Depth	2.62"



Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 0.1%

MODEL

L3D0-96W24V-U

HiLume™ 0.1% EcoSystem Voltage LED Driver with Soft-On, Fade-to-Black™
96W max

MODELS	L3D0
Length	10.50"
Width	5.50"
Depth	2.00"

