Features

LineLED Flex 18 is a small profile, high output LED strip specially designed for installations with horizontal plane bend. Bending sections every 1.30" on center allow the LineLED Flex 18 to fit around tight curves. 18LEDs per foot.

Mounting
LLED 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 Approved for closet/ storage space installation per NEC 410.16(A) (3) and 410.16(C)(5) on outputs 3.0 W/ft or less

Operating voltage
24 VDC

Average Life (L70)
50,000 hours

Warranty
7 years

Technical information

TYPE	LLFLEX18
Lumens Output (3000K)	300 lum/ft
Average Power Consumption (for a 4' section)	2.7 W/ft
Cutting Increment (in)	4.00"
Pitch Length	0.66"
Max Run Length (in series)	22 ft
Dimensions	0.39" W x 0.05" H
Ambient Operating Temperature Range*	-5°F – 125°F (-20°C – 50°C)

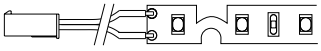
*Ambient Operating Temperature Range to maintain L70 of 50K+ hours in normal conditions. Exceeding Ambient Operating Temperature Range may result in decreased life/output. Consult Technical Support for specific inquires.

CCT	Multiplier (reference - 3000K)	CRI	TM-30 R_f	TM-30 R_g	TM-30 R_9
2200K	0.87	82	81	99	90
2400K	0.73	98	95	101	89
2700K	0.81	98	95	102	91
3000K	1.00	91	90	101	91
3500K	1.05	95	90	97	97
4100K	1.28	93	88	96	97

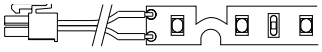
Section Start/End Options

SL
Soldered lead wires (72")

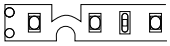
LM
Lead Male 3" cable



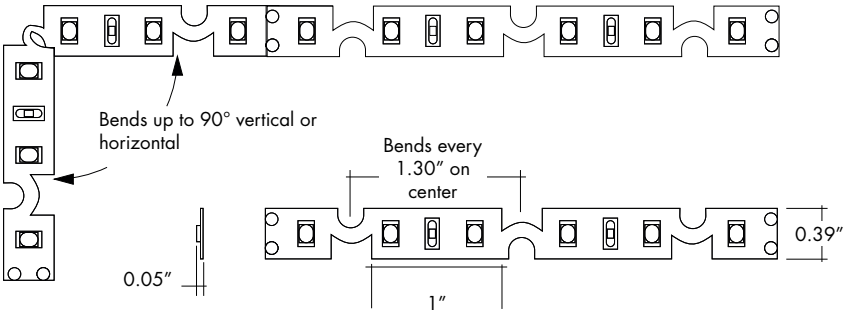
LF
Lead Female 3" cable



NC
No connector



Product Dimension



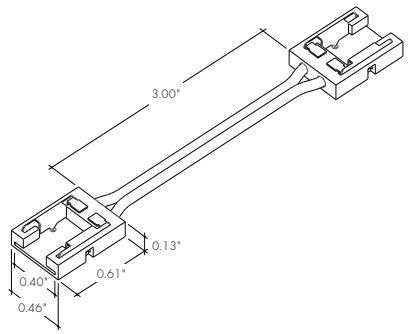
Ordering code

MODEL		CCT		SECTION START[1]		SECTION END[1]		LENGTH
	–		–		–		–	
LLFLEX18 - LineLED Flex 18		22K - 2200K 24K - 2400K 27K - 2700K 30K - 3000K 35K - 3500K 41K - 4100K		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		4" increments - up to 22'

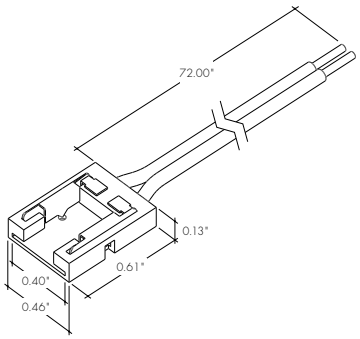
Minii Connectors

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

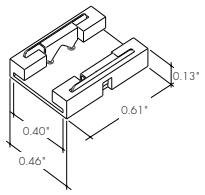
LL-PJC-10-03
Jumper minii connector with 3" wire for LLFLEX18 LED strip



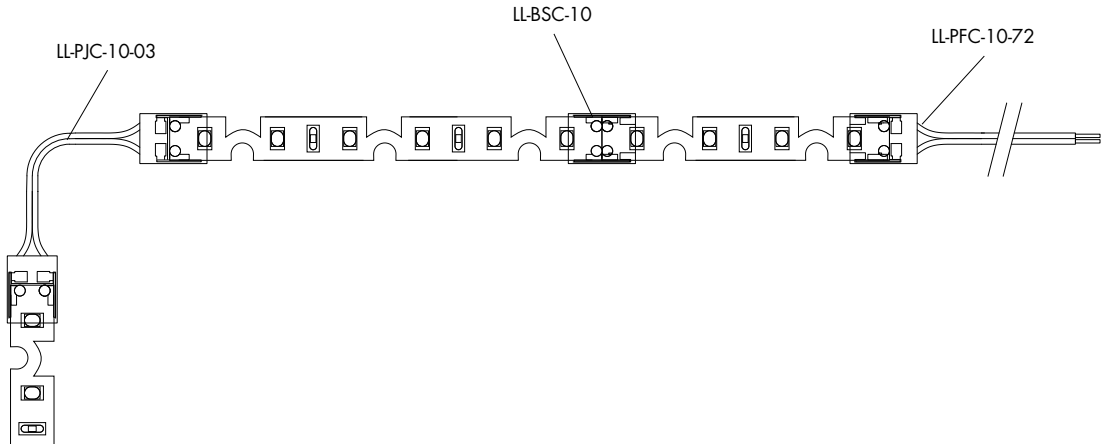
LL-PFC-10-72
Power feed minii connector with 72" wire for LLFLEX18 LED strip



LL-BSC-10
Butt splice minii connector for LLFLEX18 LED strip

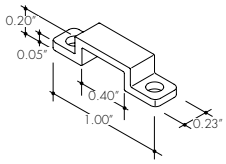


Sample Layout



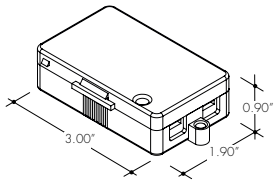
Accessories

CL1
Mounting clip

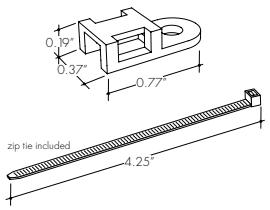


Recommended every 12" when LineLED strip is facing down

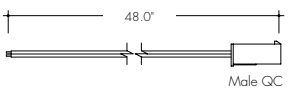
LVSP-4T-BK
Low Voltage, 4 Terminal Splice Box, Black, IP20



LL.ZIP
Cable/Wire Strain Relief Clip

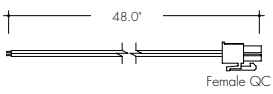


MOLEX-CON-LEAD-M-2-48
Molex Male Connector Cable, 2 pin, 48"



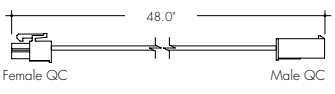
For power supply connection, not intended to be soldered to LED strip

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

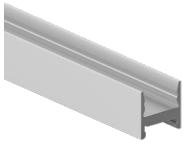
MOLEX-JC-F-M-2-48
Female/Male Jumper Cable, 2 pin, 48"

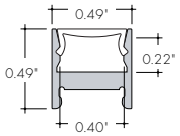


For connecting LED strips in series

Lens Options / Light Transmission

MK CHANNEL
-MKC
(Link to Web)



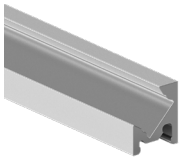


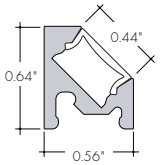
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	CD	CD	CD	CD	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

MK45V CHANNEL
-MK45VC
(Link to Web)



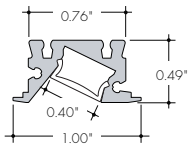


Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	CD	CD	CD	CD	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

MKRA CHANNEL
-MKRAC
(Link to Web)

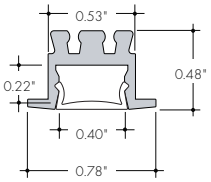


Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	CD	CD	CD	CD	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

MKR CHANNEL
-MKRC
(Link to Web)

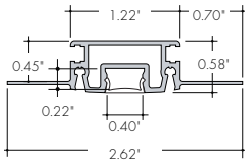


Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	CD	CD	CD	CD	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

MKL CHANNEL
-MKLC
(Link to Web)

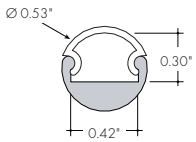


Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	46%	25%	42%	58%
Dotting*	CD	CD	CD	CD	CD	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

MKRO CHANNEL
-MKROC
(Link to Web)

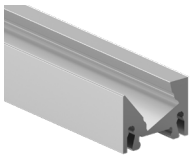


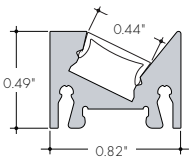
Lens	Round Frosted
Transmission %	64%
Dotting*	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

MKA CHANNEL
-MKAC
(Link to Web)



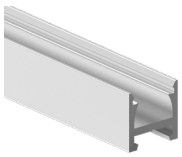


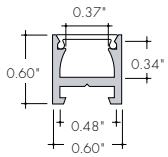
Lens	Clear	Half Frosted	Frosted	Black Louver	White Louver	Matte Frosted
Transmission %	80%	67%	47%	24%	40%	60%
Dotting*	CD	CD	CD	CD	CD	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

BOS CHANNEL
-BOSC
(Link to Web)



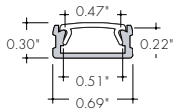


Lens	Frosted	Raised	Graze	Satin Ice
Transmission %	52%	57%	76%	71%
Dotting*	CD	ND	CD	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

KS CHANNEL
-KSC
(Link to Web)

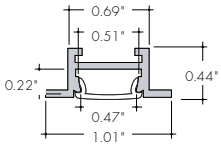


Lens	Clear	Half Frosted	Frosted	Flat Frosted	Raised	Medium
Transmission %	90%	71%	56%	56%	64%	85%
Dotting*	CD	CD	CD	CD	ND	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

KRS CHANNEL
-KRSC
(Link to Web)



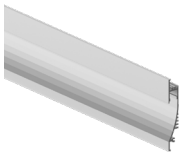
Lens	Clear	Half Frosted	Frosted	Flat Frosted
Transmission %	90%	71%	56%	56%
Dotting*	CD	CD	CD	CD

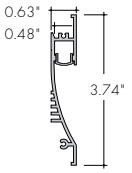
*At 100% brightness

NOT Compatible with
- Minii connectors

Lens Options / Light Transmission

WALL+ CHANNEL -WPC
(Link to Web)



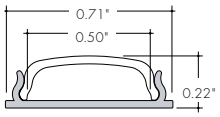


Lens	Round Frosted
Transmission %	65%
Dotting*	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

KLB CHANNEL -KLBC
(Link to Web)

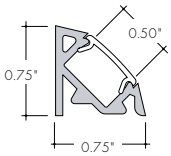


Lens	Round Frosted
Transmission %	57%
Dotting*	CD

*At 100% brightness

NOT Compatible with
- Minii connectors

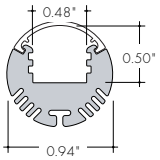
K45V CHANNEL -K45VC
(Link to Web)



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

*At 100% brightness

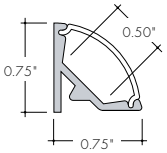
RO CHANNEL -ROC
(Link to Web)



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

*At 100% brightness

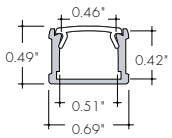
K45R CHANNEL -K45RC
(Link to Web)



Lens	Round Frosted
Transmission %	65%
Dotting*	CD

*At 100% brightness

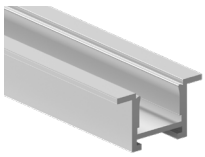
KM CHANNEL -KMC
(Link to Web)

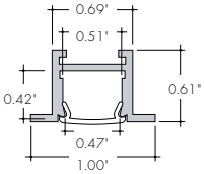


Lens	Clear	Half Frosted	Frosted	Flat Frosted	Raised	Narrow Beam Grazer
Transmission %	82%	65%	51%	47%	58%	56%
Dotting*	CD	CD	CD	CD	ND	CD

*At 100% brightness

KRM CHANNEL -KRMC
(Link to Web)

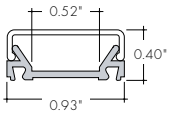




Lens	Clear	Half Frosted	Frosted	Flat Frosted	Narrow Beam Grazer
Transmission %	82%	65%	51%	47%	56%
Dotting*	CD	CD	CD	CD	CD

*At 100% brightness

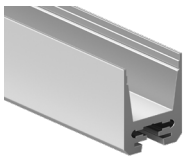
BAR CHANNEL -BARC
(Link to Web)

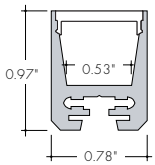


Lens	Frosted	Narrow Beam	Medium	Batwing	Asymmetric
Transmission %	65%	63%	56%	74%	56%
Dotting*	CD	CD	CD	CD	CD

*At 100% brightness

ALS20 CHANNEL -ALS20C
(Link to Web)

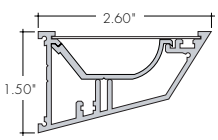




Lens	Clear	Frosted
Transmission %	54%	49%
Dotting*	CD	SD

*At 100% brightness

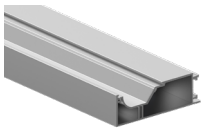
MCAL CHANNEL -MCALC
(Link to Web)

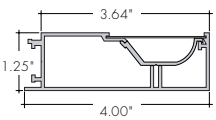


Lens	Long Throw	Tall Throw
Transmission %	91%	91%
Dotting*	CD	CD

*At 100% brightness

MREC CHANNEL -MRECC
(Link to Web)



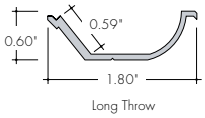


Lens	Long Throw	Tall Throw
Transmission %	91%	91%
Dotting*	CD	CD

*At 100% brightness

Lens Options / Light Transmission

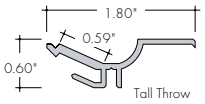
CLT CHANNEL -CLTC
(Link to Web)



Lens	No Lens
Transmission %	100%
Dotting*	CD

*At 100% brightness

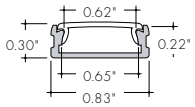
CTT CHANNEL -CTTC
(Link to Web)



Lens	No Lens
Transmission %	100%
Dotting*	CD

*At 100% brightness

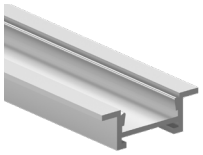
KL CHANNEL -KLC
(Link to Web)

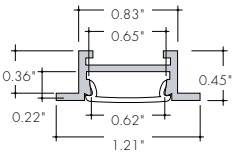


Lens	Clear	Half Frosted	Frosted
Transmission %	90%	75%	60%
Dotting*	CD	CD	CD

*At 100% brightness

KRL CHANNEL -KRLC
(Link to Web)

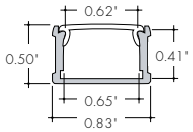




Lens	Clear	Half Frosted	Frosted
Transmission %	90%	75%	60%
Dotting*	CD	CD	CD

*At 100% brightness

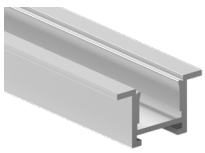
KXL CHANNEL -KXLC
(Link to Web)

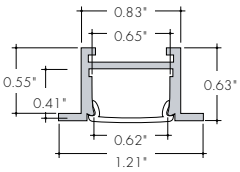


Lens	Clear	Half Frosted	Frosted
Transmission %	86%	69%	54%
Dotting*	CD	CD	CD

*At 100% brightness

KRXL CHANNEL -KRXLC
(Link to Web)

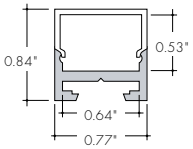




Lens	Clear	Half Frosted	Frosted
Transmission %	86%	69%	54%
Dotting*	CD	CD	CD

*At 100% brightness

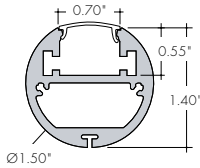
CLA CHANNEL -CLAC
(Link to Web)



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

*At 100% brightness

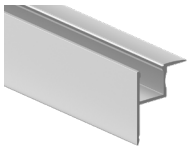
RO15 CHANNEL -RO15C
(Link to Web)

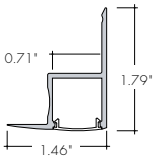


Lens	Clear	Frosted
Transmission %	76%	50%
Dotting*	CD	SD

*At 100% brightness

ALE CHANNEL -ALEC
(Link to Web)

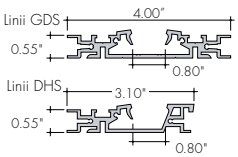




Lens	Clear	Frosted
Transmission %	58%	37%
Dotting*	CD	ND

*At 100% brightness

LIN CHANNEL -LINC
(Link to Web)

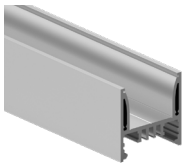


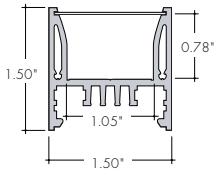
Lens	Frosted	Frosted Silicone	No Lens
Transmission %	48%	56%	82%
Dotting*	SD	SD	CD

*At 100% brightness

Lens Options / Light Transmission

KILO CHANNEL -KILOC
(Link to Web)

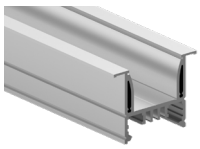


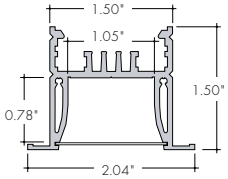


Lens	Clear	Frosted	No Lens
Transmission %	85%	75%	90%
Dotting*	CD	ND	CD

*At 100% brightness

KILOR CHANNEL -KILORC
(Link to Web)

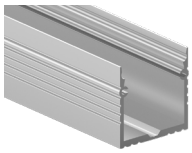


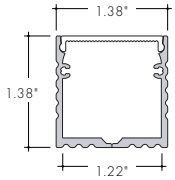


Lens	Clear	Frosted	No Lens
Transmission %	85%	75%	90%
Dotting*	CD	ND	CD

*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

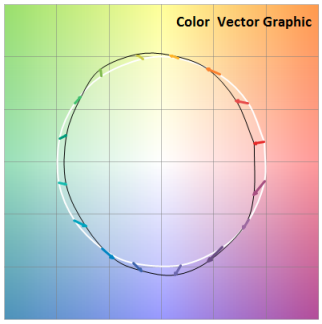

CD - Clear Dotting


SD - Slight Dotting


ND - No Dotting

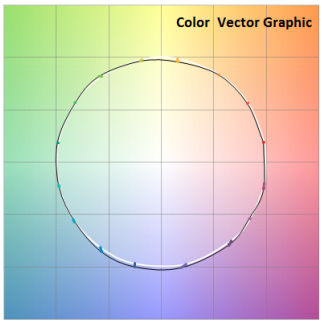
TM-30-15: Data

22K CCT



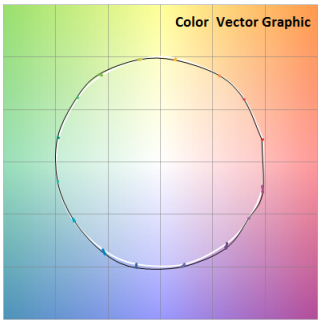
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	79	-10%	0%
2	79	-8%	8%
3	70	-2%	14%
4	85	2%	8%
5	90	5%	5%
6	90	6%	-3%
7	84	-2%	-8%
8	89	-6%	-4%
9	85	-6%	3%
10	78	-6%	11%
11	77	2%	14%
12	79	6%	9%
13	88	8%	-7%
14	67	4%	-20%
15	84	0%	-10%
16	75	-7%	-14%

24K CCT



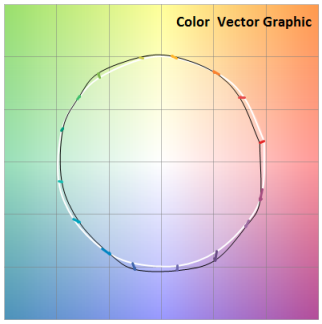
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	97	-1%	0%
2	97	-1%	0%
3	97	0%	1%
4	95	-3%	-1%
5	96	-1%	2%
6	96	1%	3%
7	97	0%	1%
8	98	1%	0%
9	97	0%	2%
10	95	0%	3%
11	93	3%	4%
12	93	3%	1%
13	93	3%	-6%
14	92	2%	-4%
15	95	-1%	-1%
16	91	0%	-6%

27K CCT



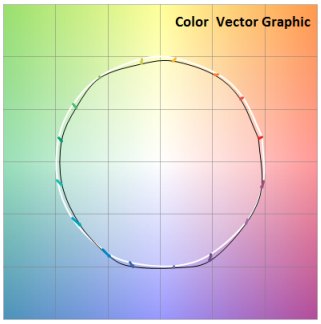
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	97	-1%	0%
2	98	0%	0%
3	96	0%	1%
4	96	-2%	0%
5	96	0%	2%
6	95	2%	2%
7	96	1%	0%
8	98	1%	-1%
9	98	0%	1%
10	95	0%	3%
11	92	2%	5%
12	93	3%	1%
13	95	2%	-3%
14	93	3%	-3%
15	96	0%	-1%
16	91	1%	-6%

30K CCT



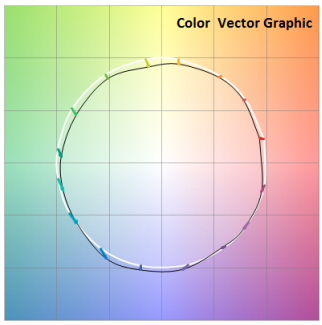
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	90	-4%	-1%
2	91	-4%	3%
3	86	-1%	7%
4	91	1%	5%
5	92	2%	3%
6	93	4%	-1%
7	92	0%	-4%
8	95	-1%	-2%
9	94	-3%	1%
10	87	-3%	6%
11	84	0%	10%
12	88	6%	4%
13	92	4%	-1%
14	88	6%	-6%
15	89	1%	-7%
16	85	0%	-11%

35K CCT



Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	91	-4%	0%
2	93	-3%	0%
3	92	-2%	2%
4	92	-3%	1%
5	91	-5%	1%
6	96	-1%	1%
7	92	-4%	1%
8	93	-3%	2%
9	90	-4%	5%
10	83	-3%	10%
11	83	2%	10%
12	89	3%	4%
13	95	2%	-1%
14	90	5%	-4%
15	90	1%	-5%
16	88	0%	-6%

41K CCT



Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	88	-4%	1%
2	93	-2%	1%
3	93	-2%	1%
4	89	-4%	-2%
5	88	-7%	-1%
6	93	-4%	0%
7	88	-7%	3%
8	87	-4%	6%
9	82	-3%	12%
10	79	0%	12%
11	83	5%	9%
12	91	4%	0%
13	89	3%	-6%
14	92	-1%	-3%
15	84	0%	-7%
16	84	-1%	-6%

Power Consumption

Tested at full power with PDC Series power supplies.

	LLFLEX18	
Nominal Length	W/ft	Total wattage
1	3.35	3.35
2	3.35	6.70
3	3.30	9.90
4	3.25	13.00
5	3.20	16.00
6	3.15	18.90
7	3.10	21.70
8	3.05	24.40
9	3.00	27.00
10	2.95	29.50
11	2.90	31.90
12	2.80	33.60
13	2.75	35.75
14	2.70	37.80
15	2.65	39.75
16	2.60	41.60
17	2.55	43.35
18	2.50	45.00
19	2.45	46.55
20	2.40	48.00
21	2.35	49.35
22	2.30	50.60

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

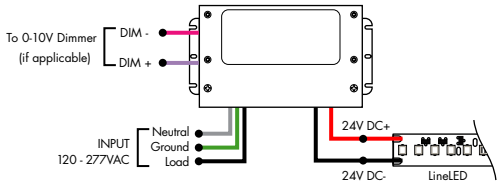
MODEL		INPUT CONTROL		WATTAGE		OUTPUT
	–		–		–	
PS - Power Supply, 120-277VAC		UNI - 0-10V Dimming (0.1%), Phase Dimming (0.1%)		30 - 30 Watts 60 - 60 Watts 96 - 96 Watts 3x96 - 3x96 Watts		24 - 24 VDC

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

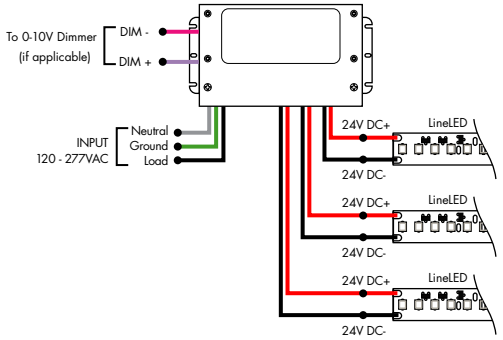
0-10V - 0.1% dimming
MLV/ELV/TRIAC - 0.1% dimming, consult dimming compatibility chart

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"

PS-UNI-30/60/96



PS-UNI-3X96

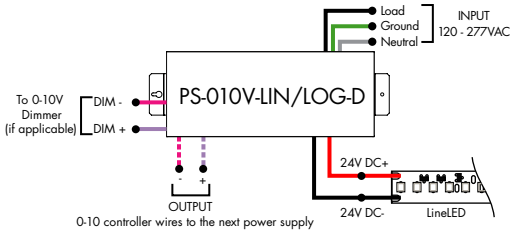


For use with Static White

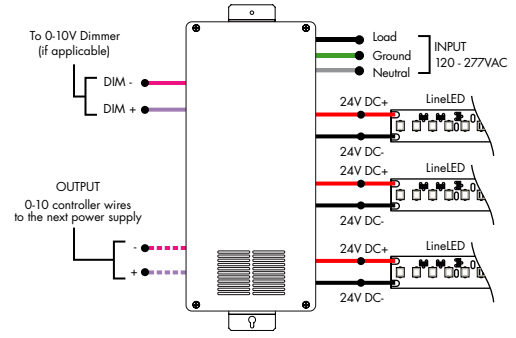
Ordering Code - 0-10V Dimming Power Supplies 0.1% 120VAC - 277VAC

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"



PS-010V-LIN/LOG-D-3X96



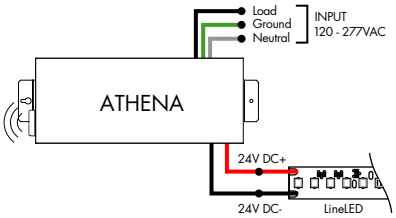
Power Supplies

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	AWNR-Athena

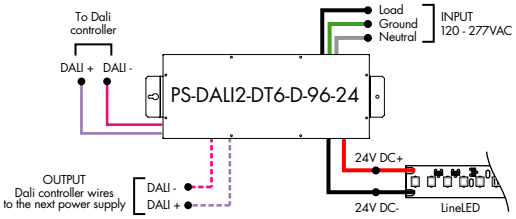


MODELS	96W
Length	14.40"
Width	5.20"
Depth	2.60"

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

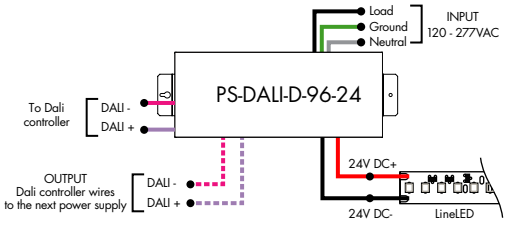


Model	96W
Length	14.40"
Width	5.20"
Depth	2.60"

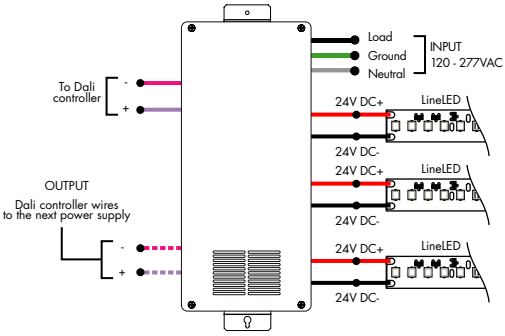
For use with Static White

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



PS-DALI-D-3X96-24



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.

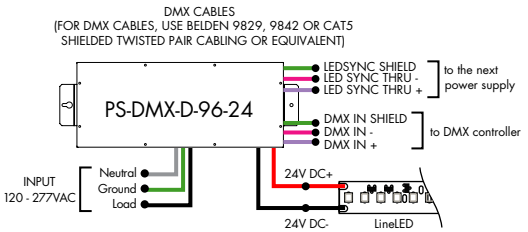
For use with Static White

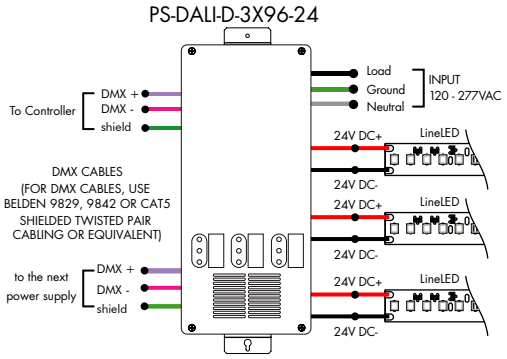
Ordering Code - DMX Dimming Power Supplies 0.1% 120VAC - 277VAC

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.



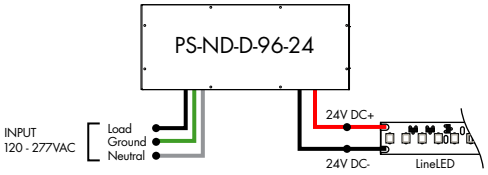


For use with Static White

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"

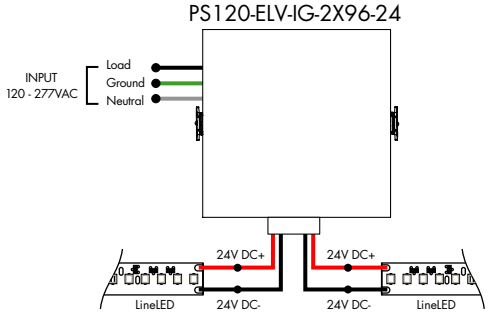


For use with Static White

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.

LUTRON®

Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 1%

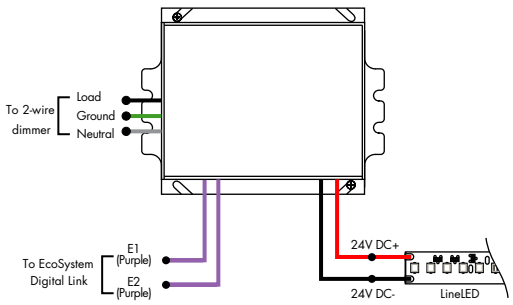
MODEL

L3DA4U1UKL-CV240

Hi-lume™ 1% EcoSystem Voltage LED driver 40W max

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

L3DA4U1UKL-CV240



LUTRON®

Luminii is a Lutron OEM Advantage Partner

Lutron Power Supplies 0.1%

MODEL

L3D0-96W24V-U

Hi-lume™ 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"