

LAZER STRIP COB™ STATIC WHITE

3W & 5W, 24VDC

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA | PATENT PENDING

REV 02.22.23



24KZ - 2400K Amber White



27KZ - 2700K Very Warm White



30KZ - 3000K Warm White



35KZ - 3500K Neutral White



40KZ - 4000K Neutral White

FEATURES & BENEFITS

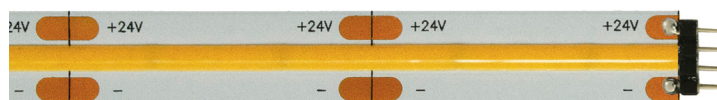
- 148 LEDs per foot provide uniform light distribution without pixelation
- Offered with Snap & Light, Pin Connectors or, Pre-soldered leads reducing time and labor during installation
- Gold Plated Contacts prevent oxidation to ensure longevity of LED
- 4 oz of copper with 12 mm wide board provides better heat dissipation and less voltage drop
- 24VDC LED Lazer Strip COB (Chip on Board) offers 5 static white color temperatures
- Up to 94+ CRI
- Solid State Power Supply offers 85-90% efficiency compared to magnetic at 80%
- Includes a 5-year pro-rated warranty

SPECIFICATIONS

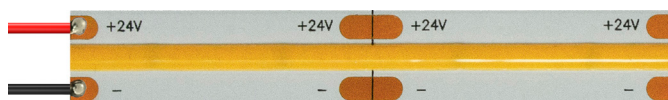
- 24VDC LED Lazer Strip with 120° beam angle
- Power: 3.3 or 4.4 watts per foot
- May be field-cut in 2.4" increments
- Sold in 1' increments
- Class 2 Damp Listing; 100 watt limit per power supply
- Operating temperature: -22°F to 140°F (-30°C to 60°C)

MOUNTING

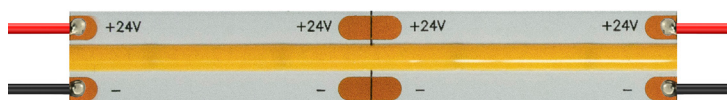
- Industrial 3M™ tape lines back of strip for self-adhesion to most smooth finished surfaces including ceiling, walls, cabinets and drawers
- Additional Pin Connectors, Mounting Straps, and Clips may be needed for some applications (sold separately)



Pin Connector



6' Soldered Lead, 1 End



6' Soldered Leads, 2 Ends



Snap and Light

LAMP

- Static White Color Temperatures: 2400K, 2700K, 3000K, 3500K, 4000K
- Average life is 50,000 hours

REMOTE POWER SUPPLIES*, DIMMING & CONTROLS (SOLD SEPARATELY)

24VDC, Class 2 wiring

- [Pure Smart™ WiZ Pro Power Supplies & Controls](#)
- [UNI Driver: Universal Dimming \(TRIAC, ELV, 0-10V\)](#)
- [Lutron Hi-Lume/Ecosystem](#)

*In-Wall Mounting Kits available for select power supplies

INCLUDED COMPONENTS

- 454 lm/ft @3000K
- LS3 or LS5 24VDC LED Lazer Strip
- 3M™ Adhesive Tape Backing

ACCESSORIES (SOLD SEPARATELY)

- 24VDC Power Jumpers
- Connectors
- Mounting Straps & Clips

APPLICATIONS

Indoor and damp locations. Applications include coves, toe-kicks, under cabinets and shelving, bookcases, drawers, pathways, accent lighting, task lighting, and general illumination

APPROVALS/COMPLIANCE

ETL, Class 2, Damp Rated, RoHS

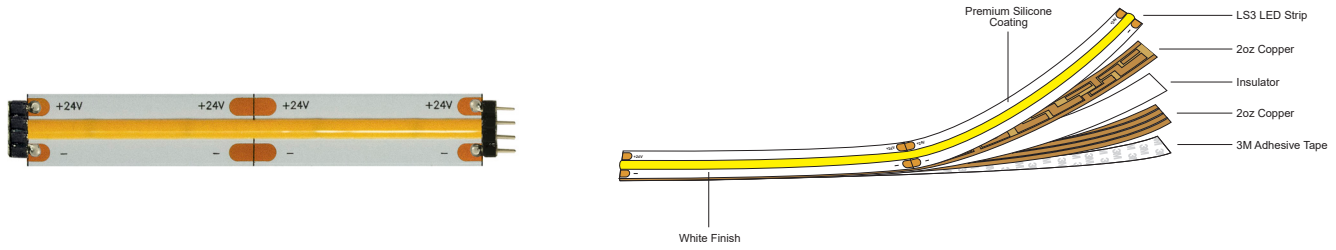
System	Type	Voltage	Length In Feet	Color Temperature
LS3	PIN	24V	30	24KZ
LS3 Lazer Strip Commercial, 3.3 watts per foot LS5 Lazer Strip Commercial, 4.4 watts per foot	PIN Pin Connector SE1 6' Soldered Lead, 1 End SE2 6' Soldered Leads, 2 Ends Leave blank for Snap and Light	24V 24 Volt	1-30 1-30 feet (LS3) 1-20 1-20 feet (LS5)	24KZ 2400K Amber White 27KZ 2700K Very Warm White 30KZ 3000K Warm White 35KZ 3500K Neutral White 40KZ 4000K Cool White

PROJECT		FIXTURE TYPE		DATE	
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LAZER STRIP COB™ STATIC WHITE

3W & 5W, 24VDC

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LAMP DATA

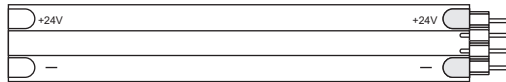
	LS3					LS5				
WATTS PER FOOT	3W (3.3 watts)					5W (4.4 watts)				
COLOR TEMPERATURE	24KZ	27KZ	30KZ	35KZ	40KZ	24KZ	27KZ	30KZ	35KZ	40KZ
LUMENS PER FOOT (lm/ft)	253	269	361	363	391	318	338	454	456	492
LUMENS PER WATT (lm/w)	77	82	109	110	119	72	77	103	104	112
CRI	90+	95+	95+	85+	85+	90+	95+	95+	85+	85+

POWER CONSUMPTION PER LINEAR FOOT

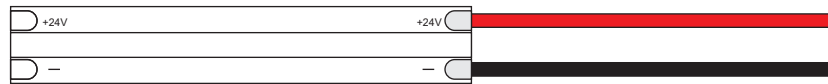
LS3 24VDC LAZER STRIP (3.3 WATTS PER FOOT) MAXIMUM LENGTH BEFORE REFEEDING: 30FT																														
LENGTH IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TOTAL WATTAGE	3.3	6.6	10	13.2	15	16.5	19.8	16.5	23.1	26.4	29.7	33	36.3	39.6	42.9	46.2	49.5	52.8	56.1	59.4	62.7	66	69.3	72.6	75.9	79.2	82.5	85.8	89.1	92.4

LS5 STATIC WHITE 24VDC LAZER STRIP (4.4 WATTS PER FOOT) MAXIMUM LENGTH BEFORE REFEEDING: 20FT																				
LENGTH IN FEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
TOTAL WATTAGE	5	10	15	20	24	29	34	39	44	48	53	58	63	68	72	77	82	87	92	96

Pin Connector



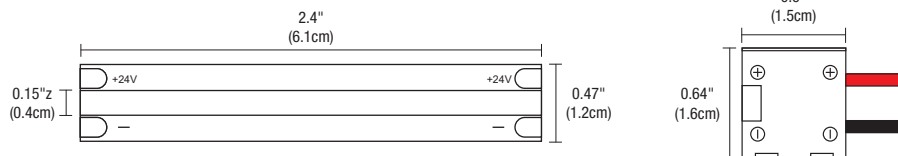
6' Soldered lead, 1 end SE1



6' Soldered lead, 2 ends SE2



Snap and Light



PROJECT	FIXTURE TYPE	DATE
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LAZER STRIP ACCESSORIES

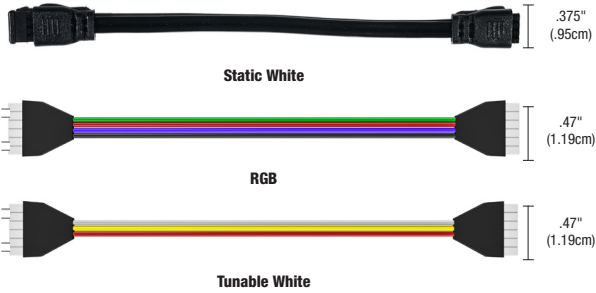
PINS & SOLDERED LEADS



POWER FEED CONNECTOR

Female power feed connector cord conducts power from the power supply to the male end of the LED strip.

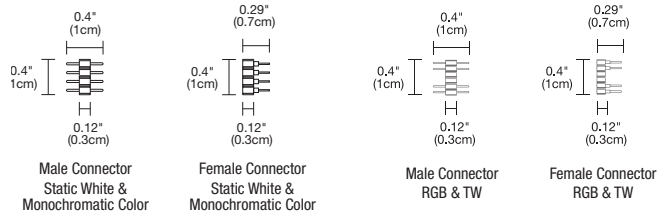
System	Type	Size	Color Temperature
LS	PFE	12FT	
LS Lazer Strip	PFE Power Feed Connector Cord	6FT 6 Feet 8FT 8 Feet 12FT 12 Feet	RGB Red, Green, & Blue TW Tunable White Leave Blank for Static White and Monochromatic Color



FLEXIBLE CONNECTOR

Flexible connectors link two sections of Lazer Strip end to end.

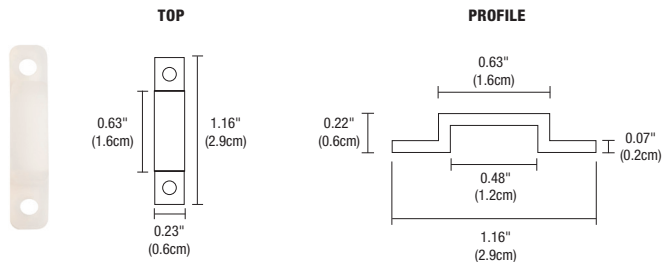
Product	Type	Size	Color Temperature
LS	CFX	3IN	
LS Lazer Strip	CFX Flexible Connector	3IN 3 inches 6IN 6 inches 12IN 12 inches 36IN 36 inches 96IN 96 inches 144IN 144 inches	RGB Red, Green, & Blue TW Tunable White Leave Blank for Static White and Monochromatic Color



PIN CONNECTORS

Extra soldering pin connectors. Male and female.

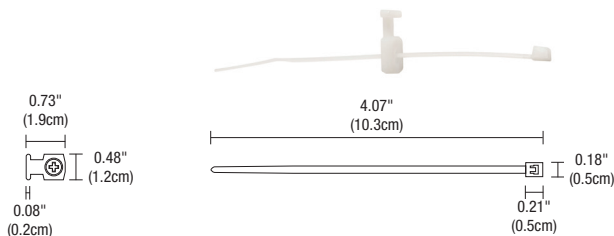
System	Product	Type	Color Temperature
LS	ML	CON	
LS Lazer Strip	FE Female Connector ML Male Connector	CON Connector	RGB Red, Green & Blue (Tunable White compatible) Leave Blank for Static White and Monochromatic Color



LAZER STRIP U-STRAP

Use every 6 - 12 inches for extra support (30/package).

Product	Type
SS	SU
SS Strip Strap	SU U-Strap



LAZER STRIP TIE STRAP

Use every 6 - 12 inches for extra support (30/package).

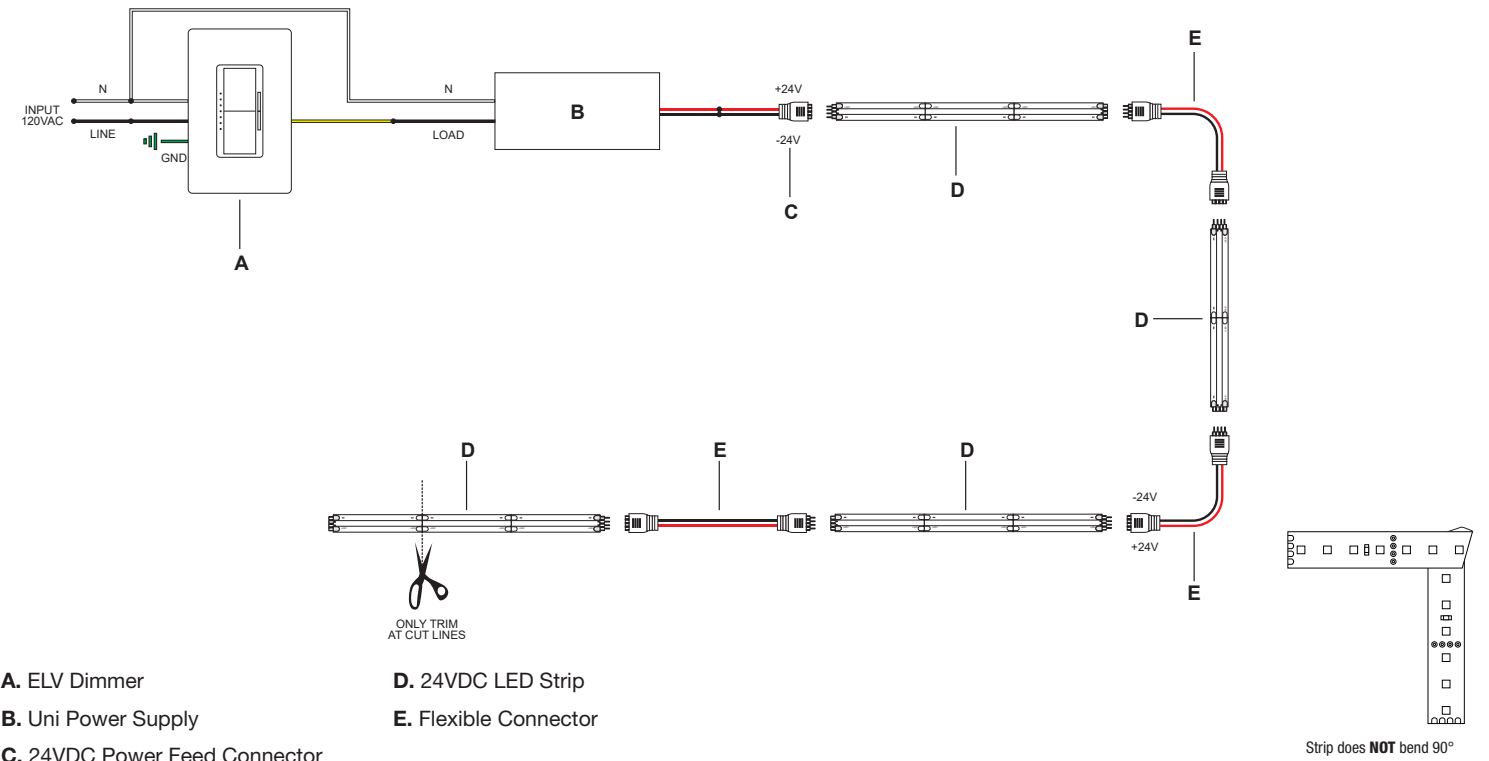
Product	Type
SS	ST
SS Strip Strap	ST Tie Strap

PROJECT		FIXTURE TYPE		DATE	
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LAZER STRIP ACCESSORIES

PINS & SOLDERED LEADS

INDOOR ELECTRONIC LOW VOLTAGE DIMMING (ELV) SAMPLE WIRING DIAGRAM: The example below is using a PureEdge Class 2, 24VDC Universal Power Supply

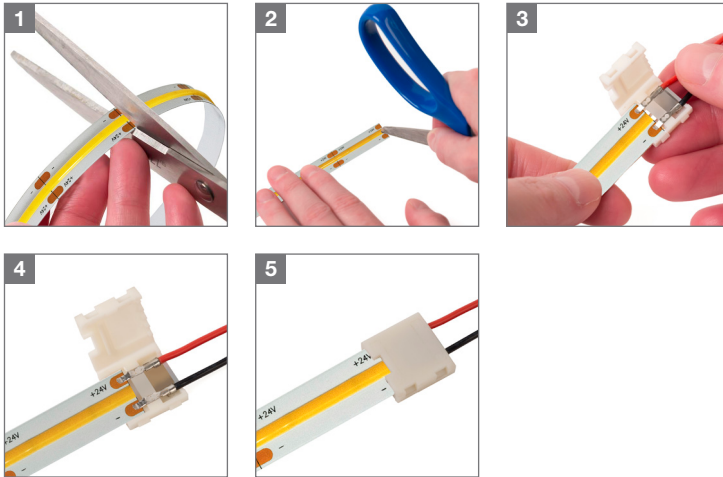


- A. ELV Dimmer
- B. Uni Power Supply
- C. 24VDC Power Feed Connector
- D. 24VDC LED Strip
- E. Flexible Connector

PROJECT		FIXTURE TYPE		DATE	
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LAZER STRIP ACCESSORIES FOR STATIC WHITE & MONOCHROMATIC COLOR

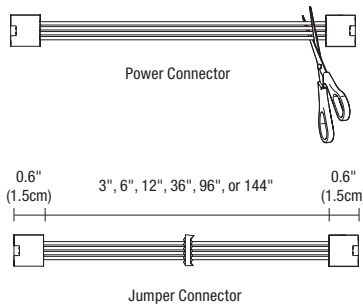
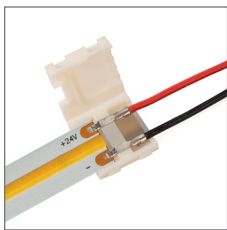
SNAP & LIGHT SOLDERLESS CONNECTORS



USING THE SNAP & LIGHT SOLDERLESS CONNECTORS:

Cutting and reconnecting our Lazer Strip is easy. All you need is a pair of scissors or any sharp device that will allow you to make a clean cut.

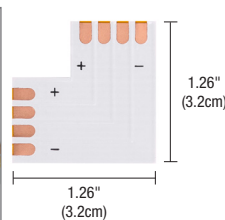
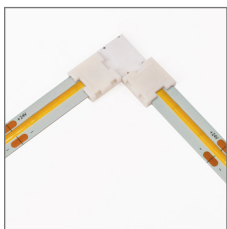
1. Cut the middle of joining contacts
2. Remove the protective coating from the contacts
3. Place the Lazer Strip end under the plastic guide and push it under the snap contacts
4. Close the cover
5. Snap the cover to secure in place



24VDC SOLDERLESS SNAP & LIGHT POWER/JUMPER CONNECTOR

Join 2 cut sections of LED Lazer Strip end to end. Power connector is required. Use as a jumper connector is optional. To use as a power connector cut and strip the wires.

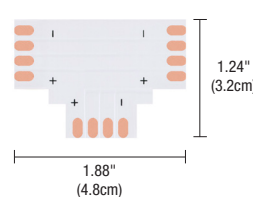
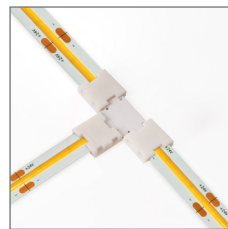
Product	Type	Size												
LS	SLC	12IN												
LS Lazer Strip	SLC Snap & Light Jumper or Power Connectors	<table><tr><td>3IN</td><td>3 inches</td><td>36IN</td><td>36 inches</td></tr><tr><td>6IN</td><td>6 inches</td><td>96IN</td><td>96 inches</td></tr><tr><td>12IN</td><td>12 inches</td><td>144IN</td><td>144 inches</td></tr></table>	3IN	3 inches	36IN	36 inches	6IN	6 inches	96IN	96 inches	12IN	12 inches	144IN	144 inches
3IN	3 inches	36IN	36 inches											
6IN	6 inches	96IN	96 inches											
12IN	12 inches	144IN	144 inches											



SOLDERLESS SNAP & LIGHT L-CONNECTOR

Join and conduct power to 2 sections of LED Lazer Strip in an L-shape.

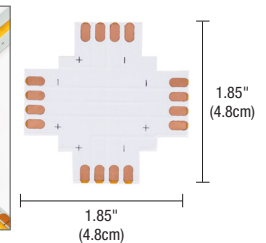
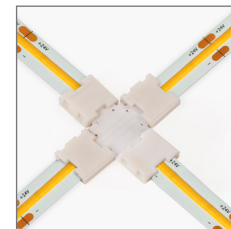
Product	Type
LS	SLL
LS Lazer Strip	SLL Snap & Light L-Connector



SOLDERLESS SNAP & LIGHT T-CONNECTOR

Join and conduct power to 3 sections of LED Lazer Strip in a T-shape.

Product	Type
LS	SLT
LS Lazer Strip	SLT Snap & Light T-Connector



SOLDERLESS SNAP & LIGHT X-CONNECTOR

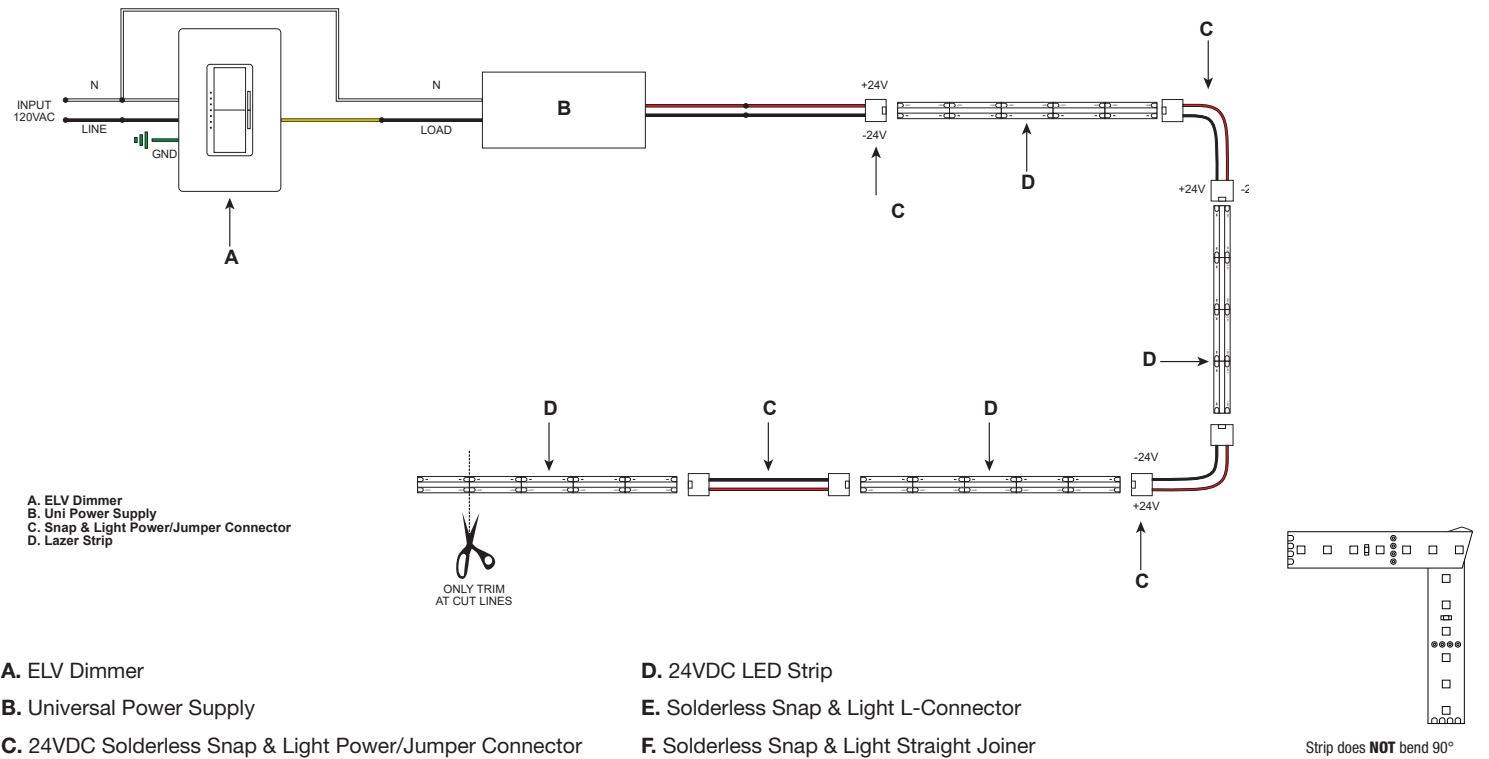
Join and conduct power to 4 sections of LED Lazer Strip in an X-shape.

Product	Type
LS	SLX
LS Lazer Strip	SLX Snap & Light X-Connector

PROJECT		FIXTURE TYPE		DATE	
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LAZER STRIP ACCESSORIES FOR STATIC WHITE & MONOCHROMATIC COLOR
SNAP & LIGHT SOLDERLESS CONNECTORS

INDOOR ELECTRONIC LOW VOLTAGE DIMMING (ELV) SAMPLE WIRING DIAGRAM: The example below is using a PureEdge Class 2, 24VDC Universal Power Supply

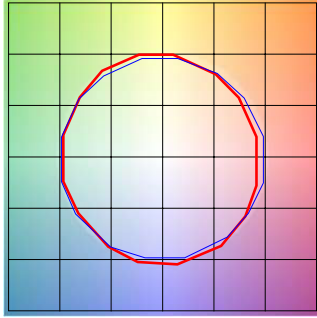


PROJECT		FIXTURE TYPE		DATE	
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TM-30-15 DATA: The data below is for LS3 and LS5 bare Lazer Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2400K | Rf: 90.1 | Rg: 99.9

Color Vector Graphic

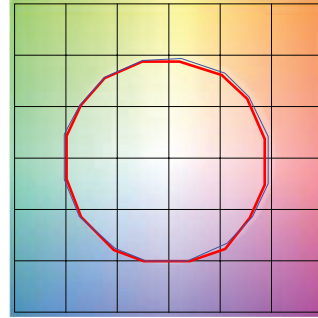


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	87.8	-5.8%	-0.5%
2	88.6	-4.7%	3.9%
3	85.2	-1.1%	6.5%
4	92.1	1.4%	3.8%
5	94.6	3.0%	3.2%
6	92.7	4.5%	0.4%
7	91.3	0.7%	-4.7%
8	95.7	0.3%	-2.3%
9	94.8	-2.2%	-0.8%
10	93.1	-2.5%	2.2%
11	91.7	1.0%	4.7%
12	88.4	3.0%	0.4%
13	87.6	4.3%	-9.4%
14	81.0	3.1%	-11.6%
15	89.8	-0.8%	-6.7%
16	83.9	-4.9%	-9.7%

2700K | Rf: 92.4 | Rg: 98.0

Color Vector Graphic

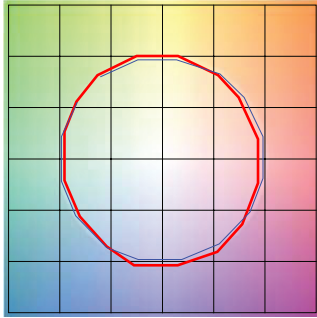


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.6	-4.5%	-0.4%
2	92.6	-3.4%	1.4%
3	91.9	-2.2%	3.0%
4	94.6	-2.3%	1.2%
5	95.3	-1.1%	2.6%
6	96.9	0.4%	0.9%
7	94.7	-2.2%	-1.1%
8	97.9	-0.5%	0.7%
9	95.0	-2.1%	1.4%
10	91.7	-1.5%	4.4%
11	90.2	0.4%	6.4%
12	90.5	3.6%	0.5%
13	92.4	2.0%	-4.6%
14	88.7	2.9%	-7.5%
15	92.4	-1.6%	-3.4%
16	86.4	-2.6%	-9.0%

3000K | Rf: 90.7 | Rg: 99.7

Color Vector Graphic

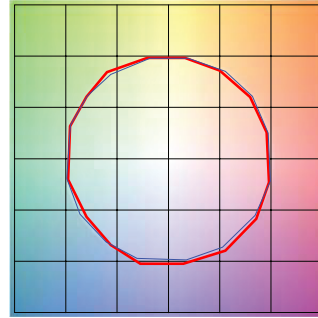


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	89.6	-5.1%	-0.6%
2	90.8	-3.7%	2.9%
3	87.7	-1.3%	5.6%
4	92.7	-0.1%	3.1%
5	94.3	1.7%	3.1%
6	94.2	3.0%	-0.3%
7	92.6	-0.7%	-3.4%
8	97.1	-0.3%	-1.4%
9	94.6	-2.4%	1.0%
10	90.4	-2.1%	4.8%
11	87.6	0.5%	7.9%
12	88.6	4.7%	2.0%
13	91.4	3.6%	-4.1%
14	86.8	4.6%	-8.4%
15	91.0	-0.7%	-4.9%
16	84.1	-2.5%	-11.0%

3500K | Rf: 92.5 | Rg: 101.2

Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	94.2	-2.3%	-0.8%
2	95.6	-1.8%	0.9%
3	92.1	-0.7%	3.3%
4	93.8	-0.5%	2.5%
5	93.2	-0.6%	2.3%
6	95.0	2.6%	0.5%
7	96.2	-0.2%	-1.0%
8	97.3	-0.1%	-1.4%
9	95.1	-1.7%	1.9%
10	89.5	-2.4%	5.7%
11	85.0	1.2%	8.4%
12	89.8	4.8%	4.1%
13	94.8	3.0%	-0.1%
14	90.9	5.9%	-3.3%
15	91.8	2.1%	-4.3%
16	89.1	1.1%	-6.2%

PROJECT		FIXTURE TYPE		DATE	
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