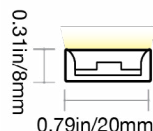


## VIVID LIGHTSTRIP XL: SILICONE - 24V

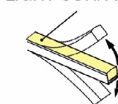
Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel



### PROFILE CAPABILITIES

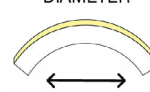


LIGHT SURFACE



TOP BENDING

MIN BENDING DIAMETER



3.94in (100MM)

### CERTIFICATIONS & FEATURES\*



### TEMPERATURES

**AMBIENT OPERATING TEMPERATURE:**  
3.66W/ft (12W/m): -40°F to 131°F (-40°C to 55°C)  
4.57W/ft (15W/m): -40°F to 113°F (-40°C to 45°C)

**AMBIENT INSTALLATION TEMPERATURE:**  
-40°F to ~113°F (-40°C to ~45°C)

**FIXTURE STORAGE TEMPERATURE:**  
-40°F to 140°F (-40°C to 60°C)

**MAX MOUNTING SURFACE TEMPERATURE:**  
185°F (85°C)

**HUMIDITY (NON-CONDENSING):**  
0-95%

**THERMAL MANAGEMENT:**  
Free Air Convection

### FIXTURE ORDER CODE

E		A				B		
INPUT CONNECTORS	SERIES	MATERIAL	PROFILE	BENDING	JACKET/BASE + LENS COLOR	LED FUNCTION	LED COLOR	CHIP + CRI
See Page 5 to select input connector	V = Vivid	1 = Silicone	J = LightStrip XL	2 = Top	T = White + Transparent	7 = DMX-Pixel 8 = DMX-Pixel- RGBW	H = 2200K J = 2700K L = 3000K M = 3500K N = 4000K Q = 5700K R = 6500K S = RGB V = 2200- 6500K	1 = Epistar SMD LED Chip 2 = Epistar SMD LED Chip + CRI80
C		D	E		F		G	
POWER	VOLTAGE + CIRCUIT TYPE**	ORDER UNIT LENGTH	OUTPUT CONNECTOR		MOUNTING PROFILE		MOUNTING ACCESSORIES	POWER SUPPLIES & CONTROLS:
G = 3.66W/ft (12W/m) Whites RGB  I = 4.57W/ft (15W/m) Tunable White RGBW	2C = 24V DC CC	G = 3.94in (100mm) Whites Tunable White RGB I = 6.56in (166.7mm) RGBW	See Page 5 to select output connector		See Page 8 to select mounting profile		See Page 14 to select accessory	By Others By GLLS

\*Maximum IP and IK ratings achievable with appropriate accessories, and cable diameter: silicone direct DMX = 0.27in (6.8mm). \*\*The Constant Current (CC) Integrated Circuit extends max run length. Do not use a CC power supply, as it may cause damage.

# VIVID LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel



A

## MECHANICAL

### ASSEMBLY

Fixtures are carefully assembled using high-quality components to ensure durability and performance. Each unit is built to meet strict specifications, with attention to electrical safety, thermal management, and optical alignment.

### OVERALL & CUTTING LENGTHS

Fixtures feature defined overall lengths and specific cutting increments for easy customization. Cutting must be done at marked points to maintain proper function and consistent light output.

### JACKET COLOR

The white silicone base with transparent lens cover provides a sleek look that reveals the internal LEDs, delivering crisp, vibrant light with maximum brightness and color accuracy—ideal for applications where LED visibility enhances visual impact.

### BENDING RADIUS

Do not bend smaller than allowed minimum bend diameter, or may cause damage to the light & void warranty.

## OPERATION

### LIGHT ENGINE

Direct DMX light engines receive DMX512 signals for precise, real-time control of brightness, color, and effects. Each unit is addressable, making them ideal for complex architectural or stage lighting setups.

### ELECTRICAL

Designed to meet UL, CE, and RoHS standards, they feature overload, overvoltage, and short-circuit protection, along with low EMI and efficient thermal management for safe, reliable operation.

### DIMMING

Direct DMX 24V DC systems use DMX512 for smooth, flicker-free dimming with 8-bit or 16-bit resolution. They support standalone DMX controllers, DMX software, and networked systems like Art-Net or sACN for flexible lighting control.

## GENERAL

### WARRANTY

Limited 10-Year Warranty against defects in materials and manufacturing. Coverage applies to properly installed and maintained products. Damage from misuse or improper installation is not covered. G.L.L.S. may repair, replace, or issue credit for eligible claims.

### LUMEN MAINTENANCE

G.L.L.S. static lighting fixtures are tested to IES LM-84 and projected with IES TM-28 to ensure consistent lumen maintenance. Fixtures are designed to retain at least 70% of their initial brightness (L70) over a 10-year lifespan when properly installed and operated.

### CERTIFICATION

Tested to UL2108 Class 2 by Underwriters Laboratory for use in the USA and Canada. Exceeds ANSI C78.377A, CE, and RoHS standards. Must be used under Class 2 ratings to maintain certification.

UL Certificate #: E347880

Report Reference #: E347880-20130508

## TESTING

### OPTICAL TESTING

TEST	RESULTS
Spectrum Analysis	IES LM 79 (Lumen, CCT, CRI, XY, SDCM, Wavelength)
Photometric Distribution	IES LM 79
Lumen Maintenance & Lifetime	IES LM 84 & IES TM28

### ENVIRONMENTAL TESTING

TEST	RESULTS
Salt Water Immersion	IEC60598-1, Saltinity 4%
Salt Spray Test	IEC60068-2-11
Outdoor Exposure	Manufacturer-defined
Flame Resistance	UL94
UV Exposure	ASTMG 154, ISO 4892-3, UVA @ 340nm & 55
IPX8	EN 60598-1: 2015+A1:2018 Clause 9.2.2 & 9.2.8
Temperature Shock(Silicone)	Manufacturer-defined, -40°C - 60°C (typical temperature range)
Constant Temperature	Manufacturer-defined
12mm Needle Flame Test (Silicone)	IEC60695-11-5
650 Glow-wire Test (Silicone)	IEC60695-2-10

### TEMPERATURE TESTING

TEST	RESULTS
Normal Temperature Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
Abnormal Operation Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21

### DURABILITY TESTING

TEST	RESULTS
Bending Test	Manufacturer-defined, 500 cycles
Tensile Test	Manufacturer-defined, > The weight of light in max.
Twist Test	Manufacturer-defined, >200 cycles
Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
IK	IEC62262



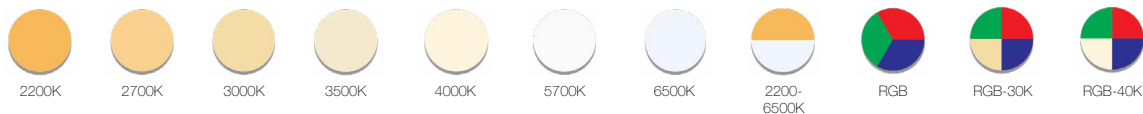
# VIVID LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel



B

## LED COLORS



## FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS

COLOR	LED CHIP + CRI	LED COUNT	1 CONNECTOR FULL/DYNAMIC*	2 CONNECTORS FULL/DYNAMIC*	FIXTURE COLOR TOLERANCE**	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT	LEGACY ORDER CODE
2200K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	3 SDCM	2238±66K	82~87	<2.3SDCM	168lm/ft (550lm/m)	SS20IC125DE22K24DC
2700K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	3 SDCM	2605±85K	82~87	<2.3SDCM	198lm/ft (650lm/m)	SS20IC125DE27K24DC
3000K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	3 SDCM	3045±105K	82~87	<2.3SDCM	198lm/ft (650lm/m)	SS20IC125DE30K24DC
3500K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	3 SDCM	3465±245K	82~87	<2.3SDCM	213.4lm/ft (700lm/m)	SS20IC125DE35K24DC
4000K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	3 SDCM	3985±150K	82~87	<2.3SDCM	213.4lm/ft (700lm/m)	SS20IC125DE40K24DC
5700K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	3 SDCM	5665±305K	82~87	<2.3SDCM	213.4lm/ft (700lm/m)	SS20IC125DE57K24DC
6500K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	3 SDCM	6532±340K	82~87	<2.3SDCM	213.4lm/ft (700lm/m)	SS20IC125DE65K24DC
2200K; 6500K; 2200-6500K	Epistar SMD LED Chip + CRI80	36 LEDs/ft (120 LEDs/m)	32.8ft (10m) / 49.2ft (15m)	65.6ft (20m) / 98.4ft (30m)	3 SDCM	2238±66K; 6532±340K	82~87	<2.3SDCM; <2.3SDCM	2137lm/ft (450lm/m); 152lm/ft ( 500lm/m)	SS20IC125DEWH24DC
R; G; B; R+G+B	Epistar SMD LED Chip	18 LEDs/ft (60 LEDs/m)	49.2ft (15m) / 65.6ft (20m)	98.4ft (30m) / 131.2ft (40m)	N/A	618-624nm; 522-528nm; 468-474nm; N/A	N/A	<3nm; <3nm; <3nm; N/A	27lm/ft ( 90lm/m); 85lm/ft( 280lm/m); 17lm/ft (55lm/m); 130lm/ft (425lm/m)	SS20IC125DERGB24DC
R; G; B; 3000K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	32.8ft (10m) / 49.2ft (15m)	65.6ft (20m) / 98.4ft (30m)	N/A; N/A; N/A; 3SDCM	618-624nm; 522-528nm; 468-474nm; 3045±105K	N/A; N/A; N/A; 82-87	<3nm; <3nm; <3nm; <2.3SDCM	24lm/ft (80lm/m); 76lm/ft (250lm/m); 15lm/ft (50lm/m); 67lm/ft (220lm/m)	SS20IC155DER3024DC
R; G; B; 4000K	Epistar SMD LED Chip + CRI80	18 LEDs/ft (60 LEDs/m)	32.8ft (10m) / 49.2ft (15m)	65.6ft (20m) / 98.4ft (30m)	N/A; N/A; N/A; 3SDCM	618-624nm; 522-528nm; 468-474nm; 3985±150K	N/A; N/A; N/A; 82-87	<3nm; <3nm; <3nm; <2.3SDCM	24lm/ft (80lm/m); 76lm/ft (250lm/m); 15lm/ft (50lm/m); 67lm/ft (220lm/m)	SS20IC155DER4024DC

\*Run length is based on a static full load with voltage drop calculated using a 0.3 m (0.98 ft) cable with silicone seamless connectors, excluding connector length—refer to specifications for details. Due to fragility, five-wire fixtures are not recommended to exceed 16.4ft (5m). \*\*Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs.



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GLLS reserves the right to make any design changes for continuous improvement which will not affect the overall appearance or performance. REV. 20251104

# VIVID LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel



## C

### POWER & VOLTAGE

COLOR	VOLTAGE + CIRCUIT TYPE*	POWER CONSUMPTION
2200K	24V DC CC	3.66W/ft (12W/m)
2700K		3.66W/ft (12W/m)
3000K		3.66W/ft (12W/m)
3500K		3.66W/ft (12W/m)
4000K		3.66W/ft (12W/m)
5700K		3.66W/ft (12W/m)
6500K		3.66W/ft (12W/m)
2200-6500K		4.57W/ft (15W/m)
RGB		3.66W/ft (12W/m)
RGBW-30K		4.57W/ft (15W/m)
RGBW-40K		4.57W/ft (15W/m)

\*The Constant Current (CC) Integrated Circuit extends max run length. Do not use a CC power supply, as it may cause damage.

## D

### CUTTING INSTRUCTIONS

COLOR	ORDER UNIT (CUTTING UNIT)
2200K	3.94in (100mm) (6 LEDs)
2700K	3.94in (100mm) (6 LEDs)
3000K	3.94in (100mm) (6 LEDs)
3500K	3.94in (100mm) (6 LEDs)
4000K	3.94in (100mm) (6 LEDs)
5700K	3.94in (100mm) (6 LEDs)
6500K	3.94in (100mm) (6 LEDs)
2200-6500K	3.94in (100mm) (12 LEDs (6+6))
RGB	3.94in (100mm) (6 LEDs)
RGBW-30K	6.56in (166.7mm) (10 LEDs)
RGBW-40K	6.56in (166.7mm) (10 LEDs)



# VIVID LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel



## E

### COMPATIBLE CONNECTORS

#### INPUT - 01

INPUT CONNECTOR TYPE	INPUT ORIENTATION + TYPE	INPUT CABLE LENGTH (LEAD WIRE)
----------------------	--------------------------	--------------------------------

#### OUTPUT - 02

OUTPUT CONNECTOR TYPE	OUTPUT ORIENTATION + TYPE	OUTPUT CABLE LENGTH (LEAD WIRE)
2 = Silicone Seamless	A = End Exit B = Bottom Exit C = Side Left Exit D = Side Right Exit E = End Jumper H = Power T-Feed I = End Cap	1 = 0.98ft (0.3m) 2 = 3.28ft (1m) 3 = 9.84ft (3m) 4 = 16ft (5m) 5 = 32.81ft (10m) 6 = 49.21ft (15m) 7 = 65.62ft (20m) 8 = N/A

### LEGACY CONNECTOR ORDER CODE

SS	20I	1	00	XX	SE	X	XX	XXX	X
PRODUCT TYPE	PROFILE	BENDING	LIGHT EMITTING	FUNCTIONALITY	CONNECTOR TYPE	FIXTURE END	EXIT TYPE	LENGTH	
SS = Factory Accessories	20I = LightStrip XL	1 = Top	00 = 20I	2W = Static 3W = Tunable White 4W = RGB 5W = RGBW 5D = DMX-Pixel 0W = For End Cap	SE = Seamless	1 = Input Side 2 = Output Side 0 = Jumpers/T-feeds/ Seamless Bottom/ Seamless End 3 = Input/Output	EN = End BO = Bottom SL = Side Left SR = Side Right EJ = End Jumper BJ = Bottom Jumper TF = Power Feed EC = End Cap	0M3 = 0.98ft (30cm) 01M = 3.28ft (1m) 03M = 9.84ft (3m) 05M = 16ft (5m) 10M = 32.81ft (10m) 000 = For End Cap	P = Power or For End Cap  S = Signal & Power



# VIVID LIGHTSTRIP XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Direct DMX-Pixel



## E

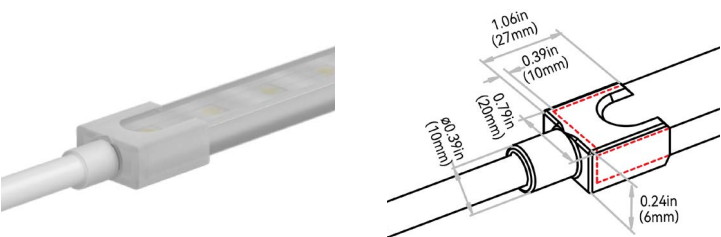
### SILICONE SEAMLESS CONNECTOR



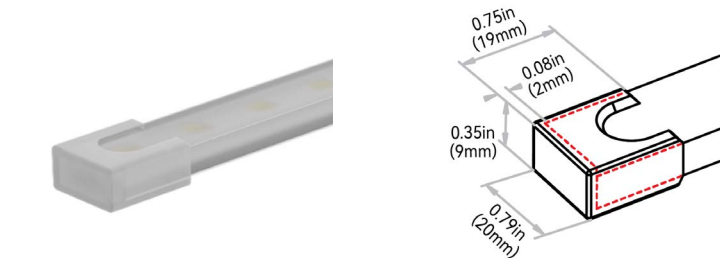
- NOTES:
- 1. Connector Tolerance  $\pm 0.02$ in (0.5mm)
  - 2. Cable diameter: Static, Tunable White, RGB & RGBW Silicone = 0.26in (6.5mm) & Direct DMX Silicone = 0.27in (6.8mm)
  - 3. Do not apply force to the feed cable
  - 4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

IP68; seamless; precise low profile dimension; high grade quality silicone & anti-wicking ferrule. Recommended for; wet environments; custom predetermined lengths; high/ low temperatures; increased humidity; direct UV exposure; harsh working conditions & increased handling forces during installation. Precision milling and special glue Silicone liquid injection-moulded workmanship enables an almost consistent size between connectors and lightbody, and the transparent terminal of the connector allows the seamless effects spliced end by end. DryWire technology applied on the cable eliminates the capillary phenomenon through wires, which secured the long-term reliability in outdoor or any wet environments. Custom factory assembly.

### END EXIT: 2-A-#



### END CAP: 2-I-8

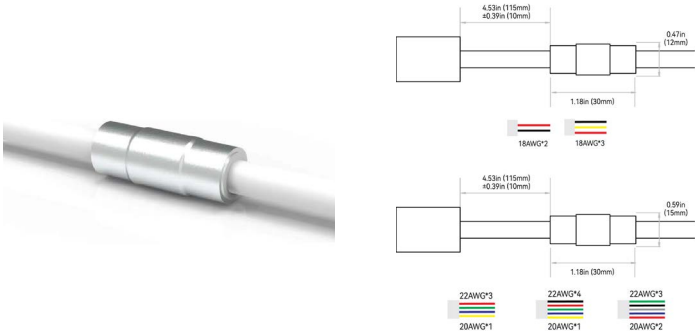


### SCREW LOCK CONNECTOR ACCESSORY - IP67



NOTE: The tolerance is  $\pm 0.08$ in (2mm).

### ANTI-WICKING FERRULE:



- NOTES:
- 1. The anti-wicking ferrule is located at 4.53in (115mm) ( $\pm 0.39$ in  $\pm 10$ mm) tolerance) from the connector on the cable. For protection against water ingress.
  - 2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.



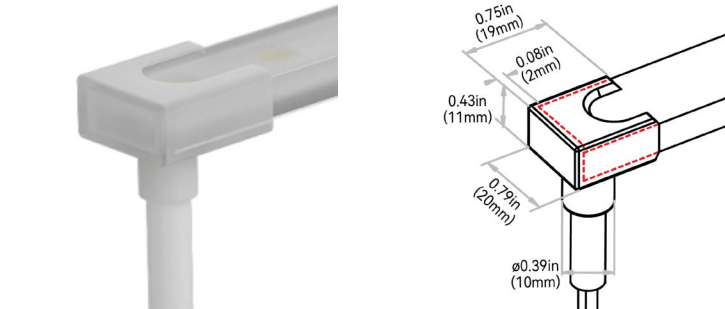
# VIVID LIGHTSTRIP XL: SILICONE - 24V

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E

BOTTOM EXIT: 2-B-#



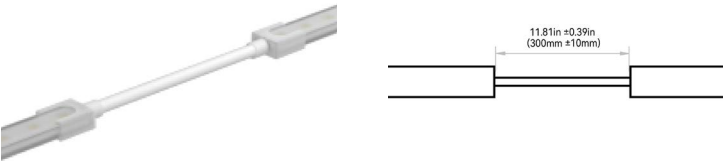
SIDE LEFT EXIT: 2-C-#



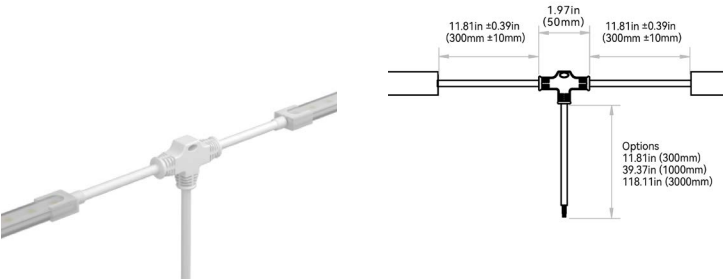
SIDE RIGHT EXIT: 2-D-#



END JUMPER: 2-E-1



POWER T-FEED: 2-H-#



# VIVID LIGHTSTRIP XL: SILICONE - 24V

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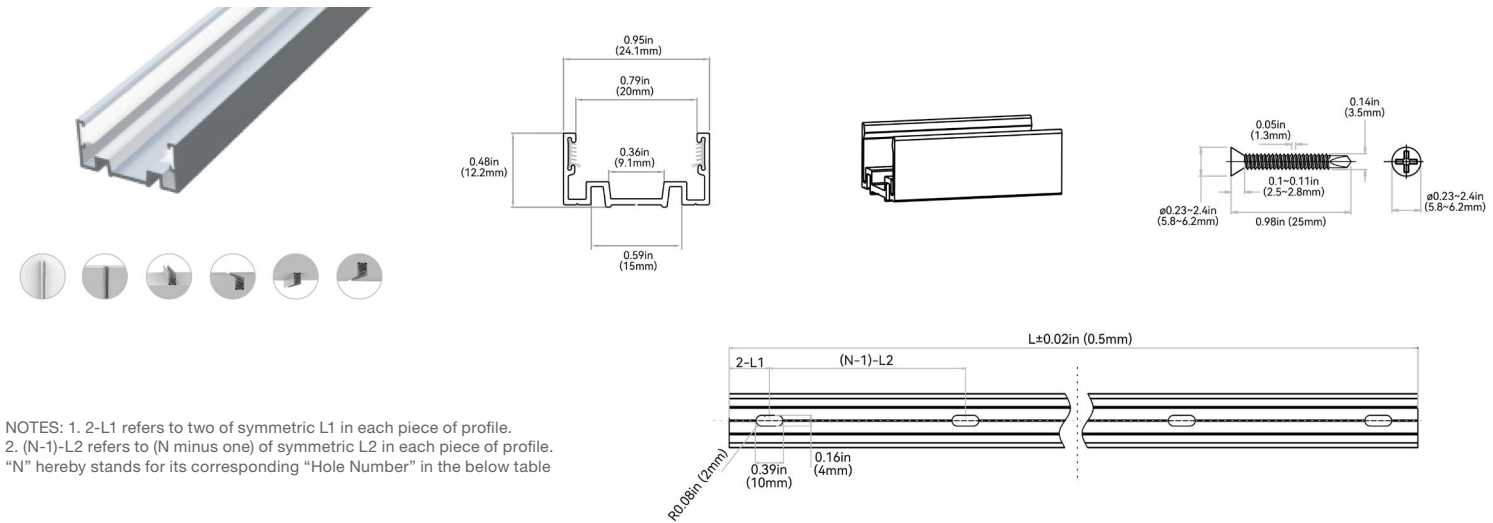
## F

### MOUNTING PROFILES

MOUNTING PROFILE TYPE	STANDARD LENGTH	PROFILE	COLOR
A4 = Aluminum Silicone Grip	3 = 19.68in (500mm) 5 = 39.37in (1000mm) 6 = 78.74in (2000mm)	J = LightStrip XL	1 = Standard

### ALUMINUM PROFILE - SILICONE GRIP

High-quality 6063 aluminum with thin-wall, light-weight design. Includes a serated silicone grip insert designed to hold fixture with additional force. Recommended on projects mounted upside down. It is deformation and rust resistant, and cost-effective. Please refer to install manual for proper installation practices.



NOTES: 1. 2-L1 refers to two of symmetric L1 in each piece of profile.  
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.  
"N" hereby stands for its corresponding "Hole Number" in the below table

ORDER CODE	LEGACY CODE	STANDARD LENGTH	L1	L2	SLOTTED HOLE	HOLE #
A4-3-J-1	CH20RAL0M5SE	19.68in (500mm)	1.97in (50mm)	7.87in (200mm)	0.16"0.39in (4*10mm)	3
A4-5-J-1	CH20RAL01MSE	39.37in (1000mm)	3.93in (100mm)	7.87in (200mm)	0.16"0.39in (4*10mm)	5
A4-6-J-1	CH20RAL02MSE	78.74in (2000mm)	3.93in (100mm)	7.87in (200mm)	0.16"0.39in (4*10mm)	10





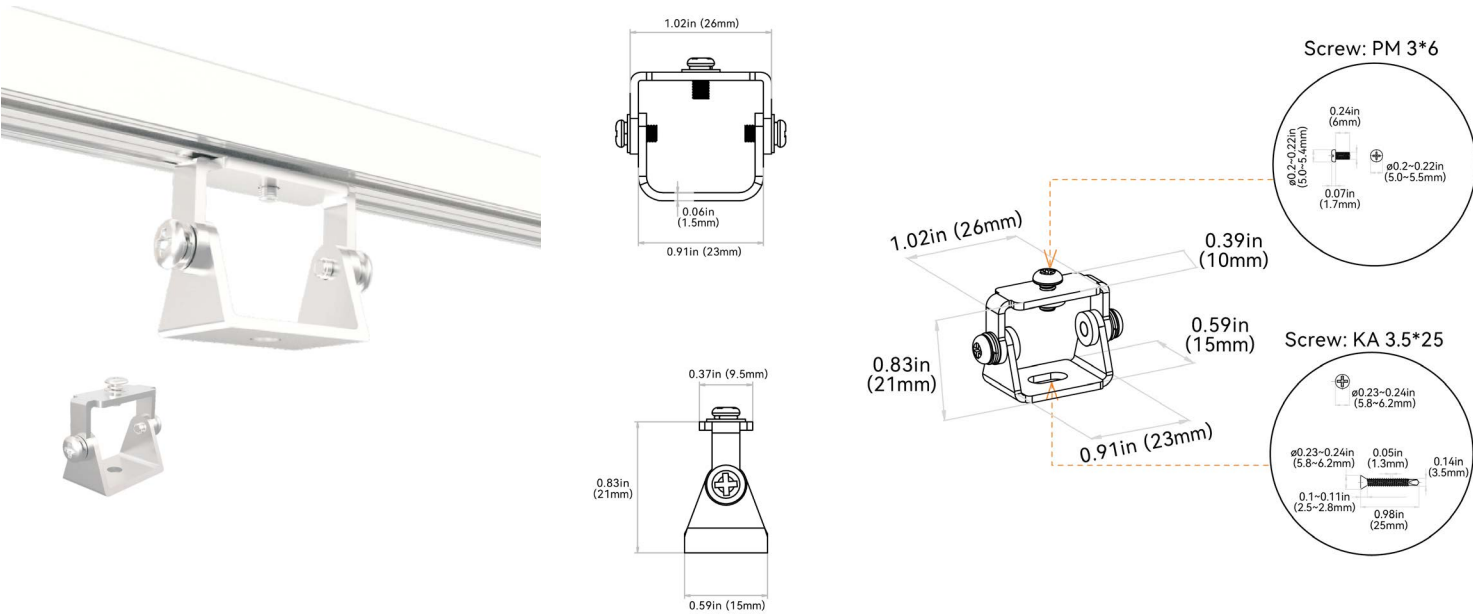
G

MOUNTING ACCESSORIES

MOUNTING ACCESSORY TYPE	PROFILE
MA1 = Pivot Bracket	J = LightStrip XL
MA2 = Rotary Bracket	
MA3 = Side Bracket	

PIVOT BRACKET

Applicable to all mounting profiles.



# VIVID LIGHTSTRIP XL: SILICONE - 24V

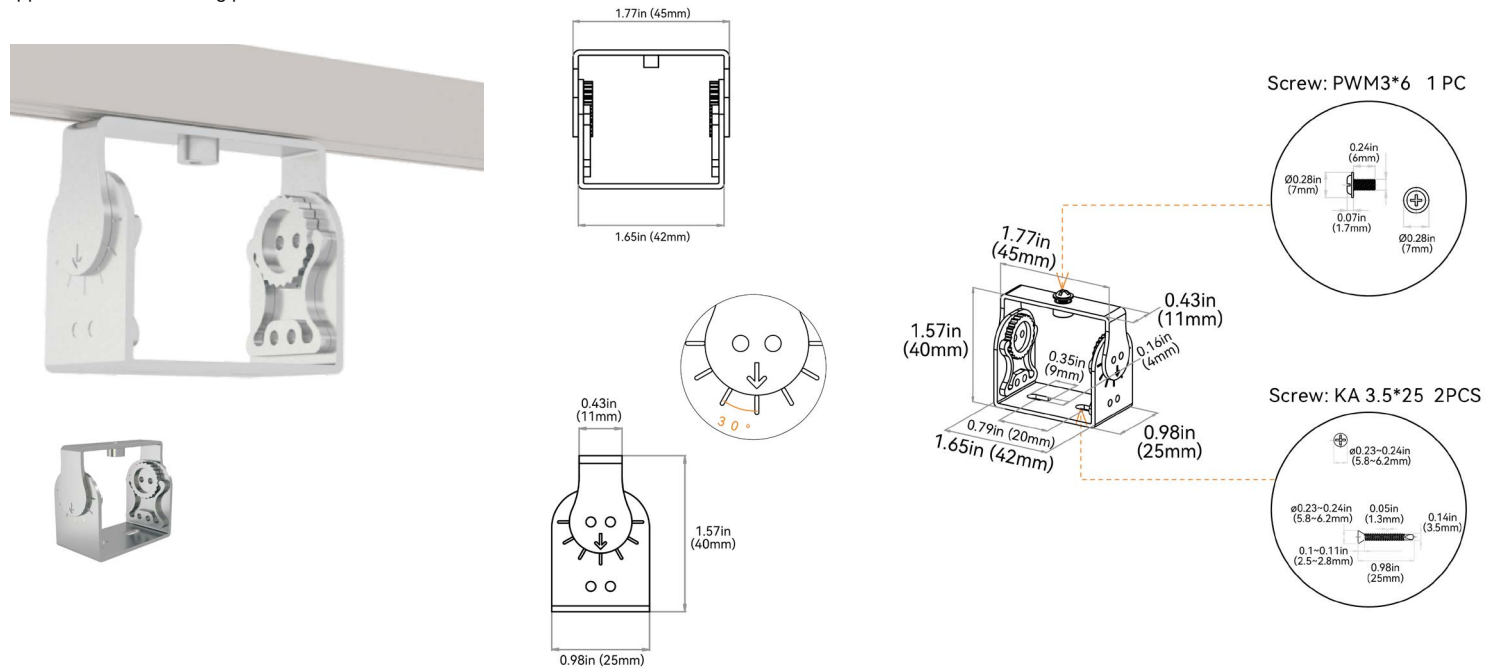
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## G

### ROTARY BRACKET

Applicable to all mounting profiles.



### SIDE MOUNTING BRACKET

Applicable to all mounting profiles.

