

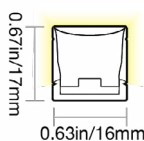


## VIVID WAVE 320: SILICONE - 24V

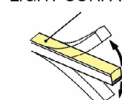
Indoor & Outdoor Rated Linear Flex Profile - RGB PWM



### PROFILE CAPABILITIES

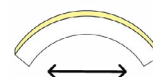


LIGHT SURFACE



TOP BENDING

MIN BENDING  
DIAMETER



11.81IN (300MM)

### CERTIFICATIONS & FEATURES



### TEMPERATURES

#### AMBIENT OPERATING TEMPERATURE:

12W/m: -40°F to 131°F (-40°C to 55°C)

#### AMBIENT INSTALLATION TEMPERATURE:

-40°F to 131°F (-40°C to 55°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        | H = Wave 320                          | 2 = Top | W = White + Diffused                  | 3 = RGB      | S = RGB                         | 1 = Epistar SMD LED Chip   |
| 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)                 | 3V = 24V DC CV         | F = 3.28in (83.3mm) | See Page 5 to select output connector |         | See Page 8 to select mounting profile |              | See Page 10 to select accessory | By Others By GLLS          |

Note: Maximum IP and IK ratings achievable with appropriate accessories, and cable diameter: silicone RGB = 0.26in (6.5mm).

# VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - RGB PWM



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 jackets with diffused white lens covers provide a clean, uniform appearance while softening light output for reduced glare. It enhances visual comfort and delivers smooth, even illumination ideal for architectural and display applications.

### BENDING RADIUS

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

## OPERATION

### LIGHT ENGINE

RGB Pulse Width Modulation (PWM) light engines deliver stable, flicker-free light at a fixed brightness. They offer consistent color and reliable performance for long-term applications.

### 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

Dimming controls for 24V DC RGB PWM systems include 0-10V, RDM DMX, and DALI protocols. These options allow smooth, flicker-free dimming while maintaining consistent color and performance across fixtures.

## 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. GLLS may repair, replace, or issue credit for eligible claims.

### LUMEN MAINTENANCE

GLLS 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 UL1598/2388 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 #: E347880-20130503

## TESTING

### OPTICAL TESTING

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

### TEMPERATURE TESTING

| TEST                    | RESULTS   |
|-------------------------|---|
| Normal Temperature Test | UL1598 & UL2388 & IEC60598-1<br>& IEC60598-2-21 |
| Abnormal Operation Test | UL1598 & UL2388 & IEC60598-1<br>& IEC60598-2-21 |

### 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<br>(typical temperature range) |
| Constant Temperature                 | Manufacturer-defined  |
| 12mm Needle Flame Test<br>(Silicone) | IEC60695-11-5   |
| 650 Glow-wire Test (Silicone)        | IEC60695-2-10   |

### 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  |



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Indoor & Outdoor Rated Linear Flex Profile - RGB PWM



## 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  |
|-------------------------|----------------------------|---------------------------|-----------------------------------|-----------------------------------|-------------------------|---|---------|-----------------------------|---|--------------------|
| R;<br>G;<br>B;<br>R+G+B | Epistar<br>SMD LED<br>Chip | 25 LEDs/ft<br>(84 LEDs/m) | 32.8ft (10m) /<br>Not Recommended | 65.6ft (20m) /<br>Not Recommended | N/A                     | 618-624nm;<br>522-530nm;<br>468-474nm;<br>N/A | N/A     | 3nm;<br>3nm;<br>3nm;<br>N/A | 38lm/ft (125m/m);<br>107lm/ft (350lm/m);<br>21lm/ft (70lm/m);<br>166lm/ft (545lm/m) | SF16E0034WERGB24DV |

Note: Run length is based on a voltage drop calculated using a 0.3 m (0.98 ft) cable with silicone seamless connectors, excluding connector length—refer to specifications for details. Max Run: Dynamic = RGB <100%; Full Load = RGB at 100%. Dynamic load calculations are not recommended for determining max distance of this profile. Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs.



# VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - RGB PWM



C

POWER & VOLTAGE

| COLOR | VOLTAGE + CIRCUIT TYPE | POWER CONSUMPTION |
|-------|------------------------|-------------------|
| RGB   | 24V DC CV              | 3.66W/ft (12W/m)  |

D

CUTTING INSTRUCTIONS

| COLOR | ORDER UNIT (CUTTING UNIT) |
|-------|---------------------------|
| RGB   | 3.28in (83.3mm) (7 LEDs)  |



# VIVID WAVE 320: SILICONE - 24V

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## 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<br>B = Bottom Exit<br>C = Side Left Exit<br>D = Side Right Exit<br>E = End Jumper<br>H = Power T-Feed<br>I = End Cap | 1 = 0.98ft (0.3m)<br>2 = 3.28ft (1m)<br>3 = 9.84ft (3m)<br>4 = 16ft (5m)<br>5 = 32.81ft (10m)<br>6 = 49.21ft (15m)<br>7 = 65.62ft (20m)<br>8 = N/A |

### LEGACY CONNECTOR ORDER CODE

| XX   | 16E        | X                   | 00             | XX   | XX  | X   | XX   | XXX  | X  |
|--|------------|---------------------|----------------|--|---|---|--|--|--|
| PRODUCT TYPE                                     | PROFILE    | BENDING             | LIGHT EMITTING | FUNCTIONALITY  | CONNECTOR TYPE  | FIXTURE END   | EXIT TYPE  | LENGTH   |  |
| NA = DIY Accessories<br>FA = Factory Accessories | 16E = Wave | 1 = Side<br>2 = Top | 00 = 16E       | 2W = Static/DTW<br>3W = Tunable White/SPI-Pixel<br>4W = RGB<br>5W = RGBW<br>0W = For End Cap | SV = Swivel<br>CL = Click<br>SC = Snap<br>SE = Seamless | 1 = Input Side<br>2 = Output Side<br>0 = Jumpers/T-feeds/<br>Seamless Bottom/<br>Seamless End<br>3 = Input/Output | EN = End<br>BO = Bottom<br>SL = Side Left<br>SR = Side Right<br>EJ = End Jumper<br>BJ = Bottom Jumper<br>TF = Power Feed<br>EC = End Cap | 0M3 = 0.98ft (30cm)<br>01M = 3.28ft (1m)<br>03M = 9.84ft (3m)<br>05M = 16ft (5m)<br>10M = 32.81ft (10m)<br>000 = For End Cap | P = Power or For End Cap<br>S = Signal & Power |



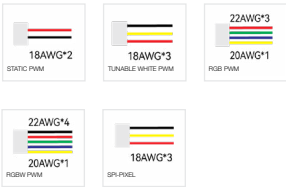
# VIVID WAVE 320: SILICONE - 24V

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## E

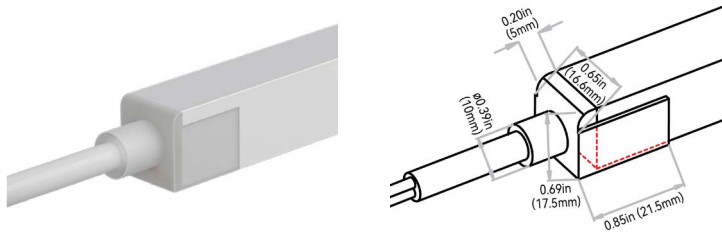
### SILICONE SEAMLESS CONNECTOR



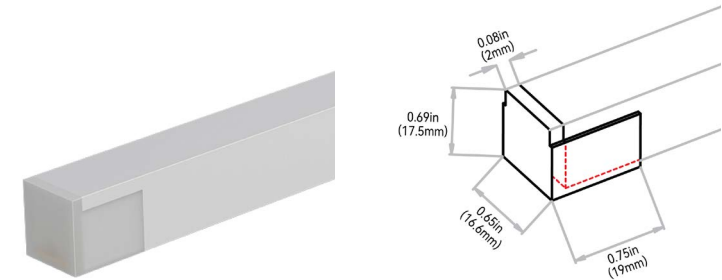
- NOTES:
- 1. Connector Tolerance  $\pm 0.02$ in (0.5mm)
  - 2. Cable diameter: Static Silicone = 0.26in (6.5mm)
  - 3. Do not apply force to the feed cable
  - 4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop.

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.

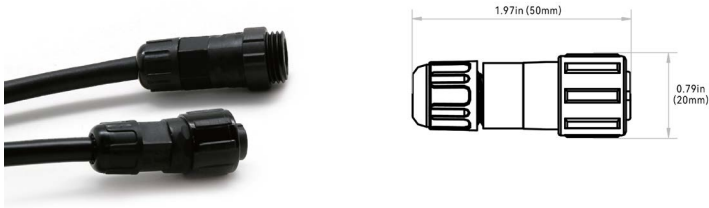
### END EXIT: 2-A-#



### END CAP: 2-I-8

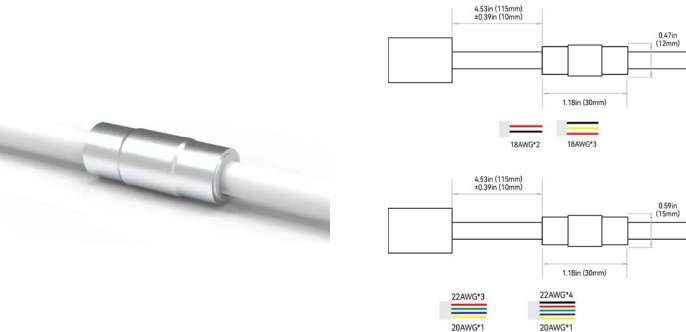


### SCREW LOCK CONNECTOR ACCESSORY - IP67



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.



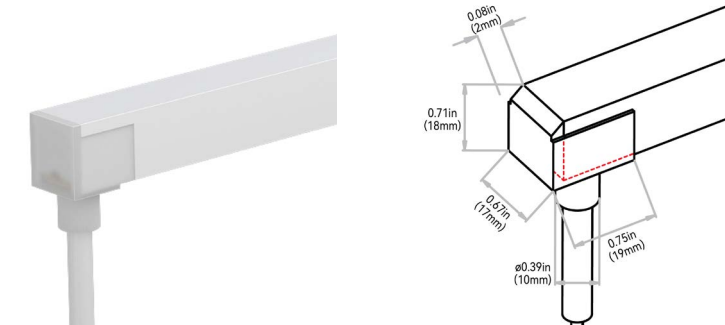
# VIVID WAVE 320: SILICONE - 24V

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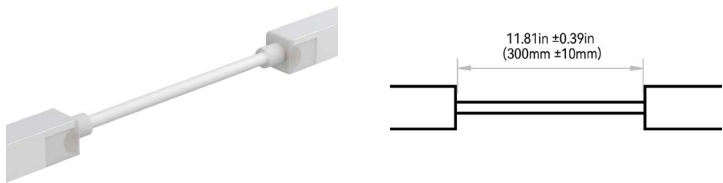


E

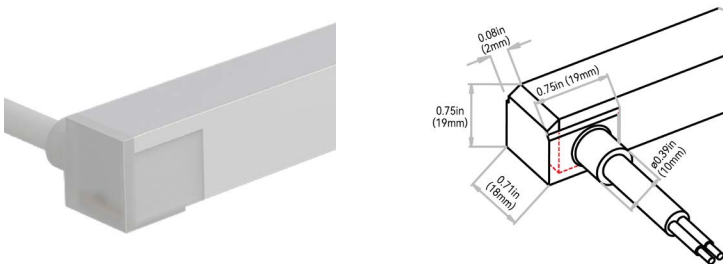
BOTTOM EXIT: 2-B-#



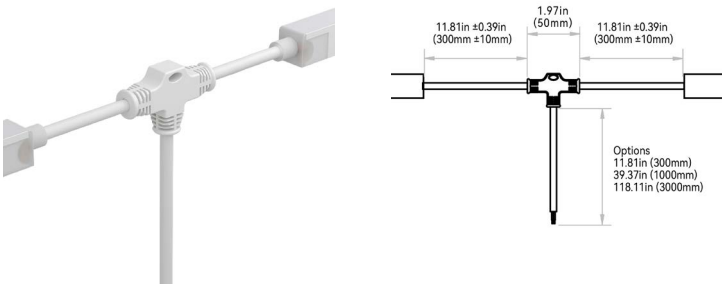
END JUMPER: 2-E-1



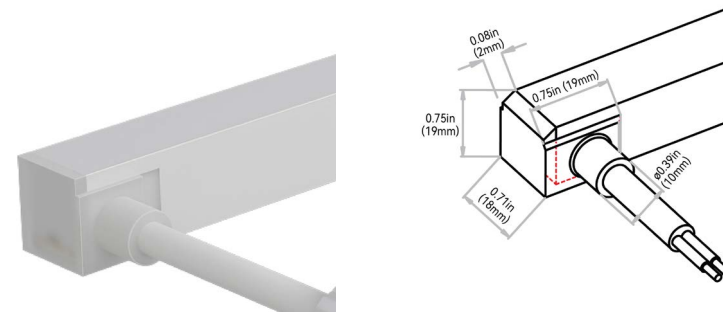
SIDE LEFT EXIT: 2-C-#



POWER T-FEED: 2-H-#



SIDE RIGHT EXIT: 2-D-#



# VIVID WAVE 320: SILICONE - 24V

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## F

### MOUNTING PROFILES

| MOUNTING PROFILE TYPE               | STANDARD LENGTH  | PROFILE      | COLOR        |
|-------------------------------------|--|--------------|--------------|
| A6 = Aluminum Self-Locking          | 1 = 0.79in (20mm)<br>3 = 19.68in (500mm)<br>5 = 39.37in (1000mm)<br>6 = 78.74in (2000mm) | H = Wave 320 | 1 = Standard |
| A7 = Aluminum Self-Locking Flexible | 3 = 19.68in (500mm)<br>5 = 39.37in (1000mm)  |              |              |





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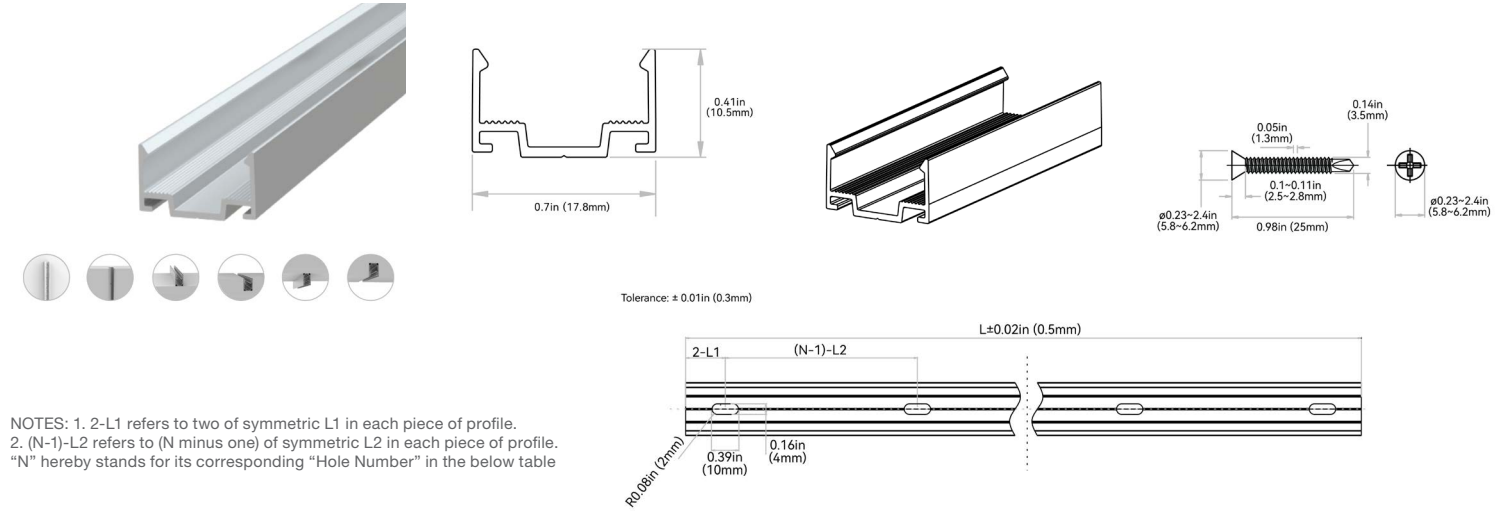
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F

## ALUMINUM PROFILE - SELF-LOCKING

High-quality 6063 differing from the aluminum basic profile, it has a shallower shape and symmetric protruding tracks inside to discreetly fit the notched Wave 320. With it, the beauty of Wave 320 lights can be displayed from all sides to the fullest extent, while the reliable clamping force can be expected even for the upsidedown applications. Please refer to install manual for proper installation practices.

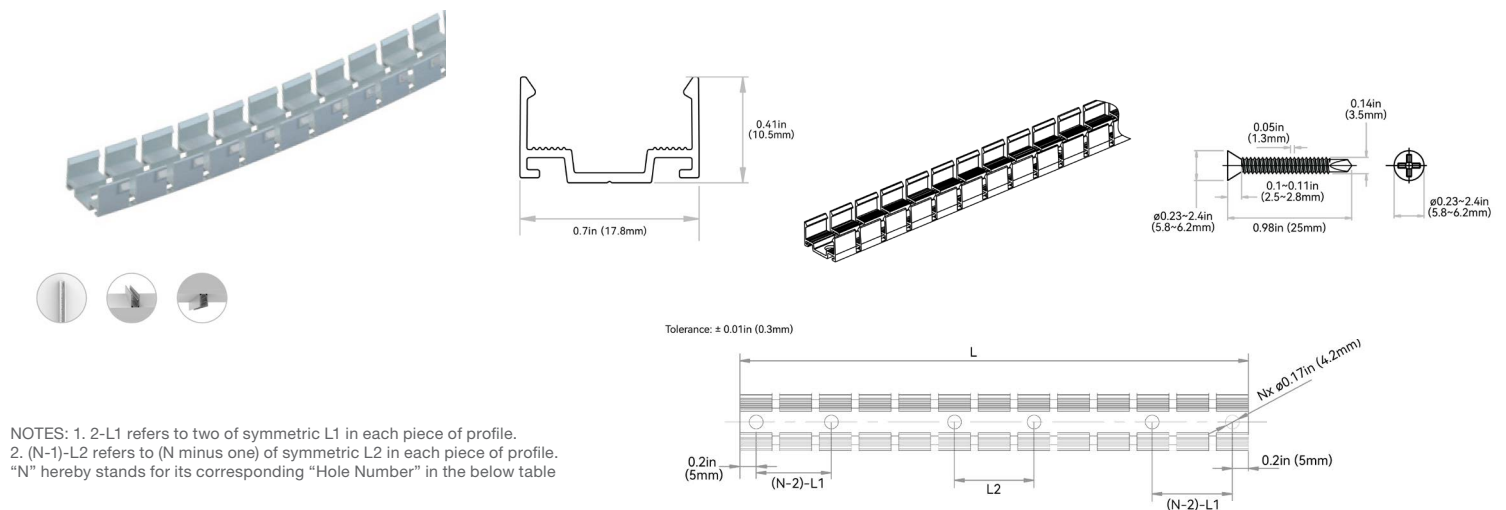


NOTES: 1. 2-L1 refers to two of symmetric L1 in each piece of profile.  
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.  
"N" hereby stands for its corresponding "Hole Number" in the below table

| ORDER CODE | LEGACY CODE  | STANDARD LENGTH  | L1             | L2             | SLOTTED HOLE         | HOLE # |
|------------|--------------|------------------|----------------|----------------|----------------------|--------|
| A6-1-H-1   | CL16RAL2C0LP | 0.79in (20mm)    | N/A            | N/A            | 0.16"0.39in (4*10mm) | 1      |
| A6-3-H-1   | CH16RAL0M5LP | 19.68in (500mm)  | 1.97in (50mm)  | 7.87in (200mm) | 0.16"0.39in (4*10mm) | 3      |
| A6-5-H-1   | CH16RAL01MLP | 39.37in (1000mm) | 3.93in (100mm) | 7.87in (200mm) | 0.16"0.39in (4*10mm) | 5      |
| A6-6-H-1   | CH16RAL02MLP | 78.74in (2000mm) | 3.93in (100mm) | 7.87in (200mm) | 0.16"0.39in (4*10mm) | 10     |

## ALUMINUM PROFILE - SELF-LOCKING FLEXIBLE

High-quality 6063 differing from the aluminum basic profile, it has a shallower shape and symmetric protruding tracks inside to discreetly fit the notched Wave 320. With it, the beauty of Wave 320 lights can be displayed from all sides to the fullest extent, while the reliable clamping force can be expected even for the upsidedown applications. The flexibility allows the light to shape to curved lines bringing your creative ideas to life. 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 ORDER CODE | STANDARD LENGTH  | L1               | L2              | SLOTTED HOLE     | HOLE # |
|------------|-------------------|------------------|------------------|-----------------|------------------|--------|
| A7-3-H-1   | CH16RAL0M5LPTB    | 19.68in (500mm)  | 4.34in (110.3mm) | 1.92in (48.9mm) | Ø 0.17in (4.2mm) | 6      |
| A7-5-H-1   | CH16RAL01MLPTB    | 39.37in (1000mm) | 4.59in (116.5mm) | 3.89in (98.8mm) | Ø 0.17in (4.2mm) | 10     |



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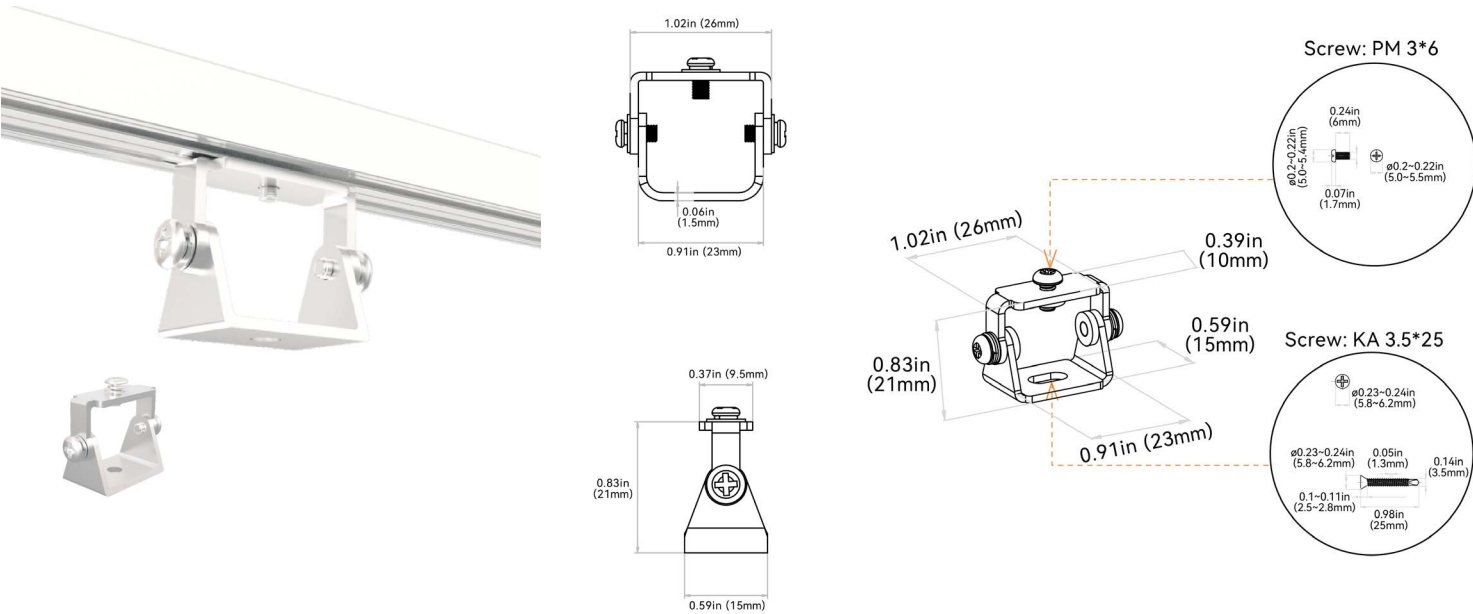
## G

### MOUNTING ACCESSORIES

| MOUNTING ACCESSORY TYPE | PROFILE      |
|-------------------------|--------------|
| MA1 = Pivot Bracket     | H = Wave 320 |
| MA2 = Rotary Bracket    |              |
| MA3 = Side Bracket      |              |

### PIVOT BRACKET

Applicable to all mounting profiles.



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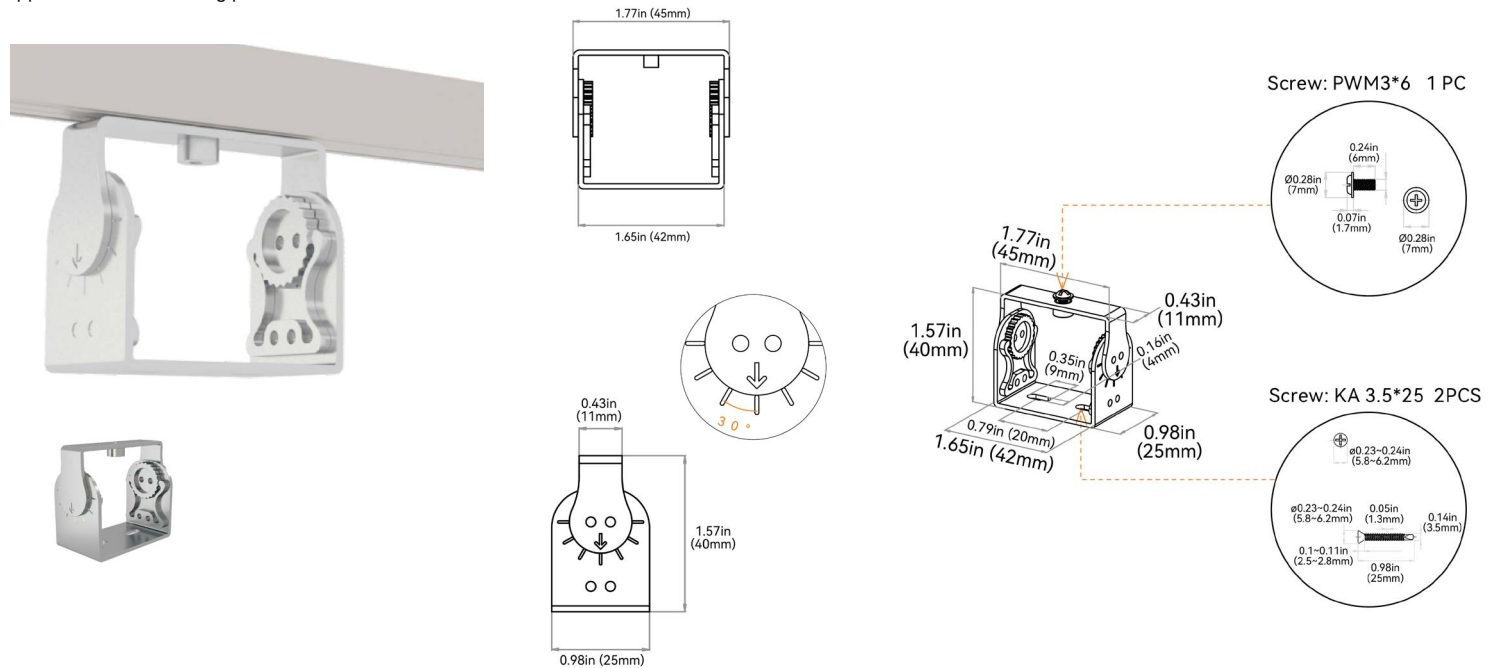
Indoor & Outdoor Rated Linear Flex Profile - RGB PWM



## G

### ROTARY BRACKET

Applicable to all mounting profiles.



### SIDE MOUNTING BRACKET

Applicable to all mounting profiles.

