VIVID WAVE 320: SILICONE - 24V
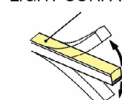Indoor & Outdoor Rated Linear Flex Profile - Tunable White

RoHS COMPLIANT · UL · CE
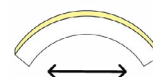
PROFILE CAPABILITIES

0.67in/17mm
0.63in/16mm

LIGHT SURFACE
TOP BENDING

MIN BENDING DIAMETER
11.81IN (300MM)

CERTIFICATIONS & FEATURES

IP68 · IK08 · RDM DMX · DALI

24 DC · 10 YEAR WARRANTY · FLAME UV SOLVENT SALT WATER RESISTANT

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	2 = Tunable White	U = 2200K -5700K	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)		3V = 24V DC CV	F = 3.28in (83.3mm)	See Page 5 to select output connector	See Page 10 to select mounting profile	See Page 12 to select accessory	By Others By GLLS

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

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1

VIVID WAVE 320: SILICONE - 24V
Indoor & Outdoor Rated Linear Flex Profile - Tunable White

COMPLEXITY, SIMPLIFIED.

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
Tunable White 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 Tunable White 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 Referance #: E347880-20130503

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

TEMPERATURE TESTING

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

ENVIRONMENTAL TESTING

TEST	RESULTS
Salt Water Immersion	IEC60598-1, Sailinity 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

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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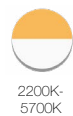
2

VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White

B

LED COLORS

2200K-5700K

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; 5700K; 2200-5700K	Epistar SMD LED Chip + CRI80	444 LEDs/ft (144 LEDs/m)	49.2ft (15m) / Not Recommended	98.4ft (30m) / Not Recommended	3 SDCM	2238 ± 102K; 5669 ± 355K N/A	82-87	2.3SDCM	107lm/ft (350lm/m); 122lm/ft (400lm/m)	SF16E0033WEDWH24DV

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 = white channels <100%; Full Load = white channels at 100%. Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs. For runs over 65.62ft (20m), recommended to limit each to 65.62ft (20m) for easier handling.

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3

VIVID WAVE 320: SILICONE - 24V
Indoor & Outdoor Rated Linear Flex Profile - Tunable White

C

POWER & VOLTAGE

COLOR	VOLTAGE + CIRCUIT TYPE	POWER CONSUMPTION
2200-5700K	24V DC CV	3.66W/ft (12W/m)

D

CUTTING INSTRUCTIONS
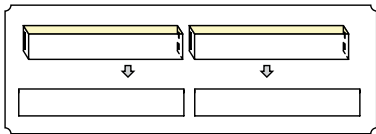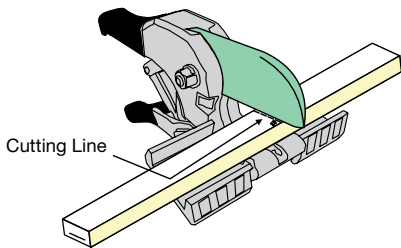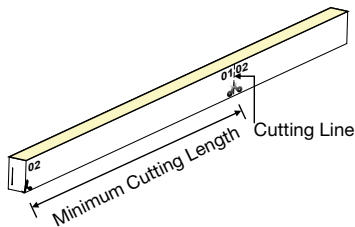
COLOR	ORDER UNIT (CUTTING UNIT)
2200-5700K	3.28in (83.3mm) (12 LEDs)

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VIVID WAVE 320: SILICONE - 24V
Indoor & Outdoor Rated Linear Flex Profile - Tunable White

COMPLEXITY, SIMPLIFIED.

<div style="background:magenta">E</div>

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)
7 = Snap	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
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

XX	16E	0	00	XX	XX	X	XX	XXX	X
PRODUCT TYPE	PROFILE	BENDING	LIGHT EMITTING	FUNCTIONALITY	CONNECTOR TYPE	FIXTURE END	EXIT TYPE	LENGTH	
NA = DIY Accessories FA = Factory Accessories	16E = Wave	0 = Top	00 = 16E	2W = Static/DTW 3W = Tunable White/SPI-Pixel 4W = RGB 5W = RGBW 0W = For End Cap	SV = Swivel CL = Click SC = Snap 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

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VIVID WAVE 320: SILICONE - 24V
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E

SNAP CONNECTOR

| 18AWG*2 | 18AWG*3 | 18AWG*3 |
| STATIC PWM | TUNABLE WHITE PWM | SPI-PIXEL |

NOTES:
1. Connector Tolerance ±0.02in (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

IP67, tool-less; good solution for protection from water ingression; larger connector & anti-wicking ferrule. Recommended for wet environments and on-site length adjustments. To seal the end of light and ensure the waterproof in case of any cutting or extension on site, Insulfit technology prevents the water or vapor ingress from the end of the light. DryWire technology applied on the cable eliminates the capillary phenomenon through wires, which secured the long-term reliability in any wading environments. DIY or custom factory assembly.

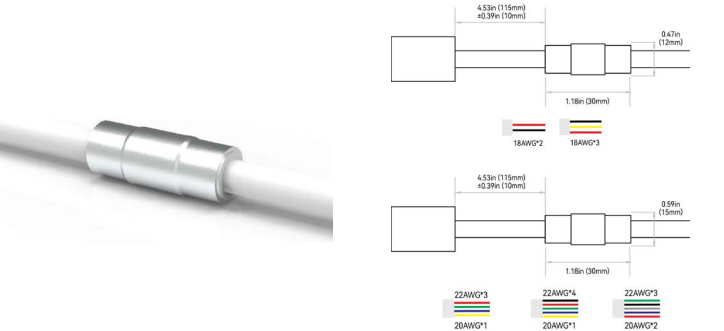### END EXIT: 7-A-#
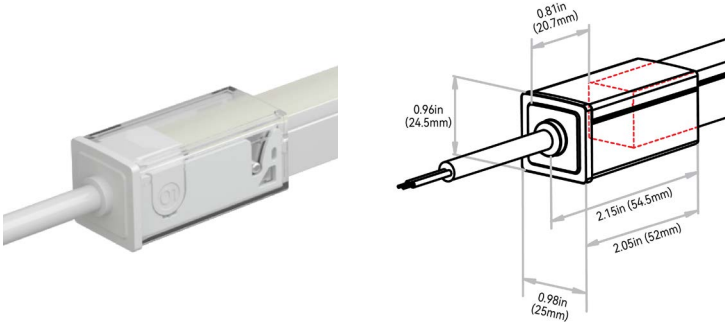
END CAP: 7-I-8
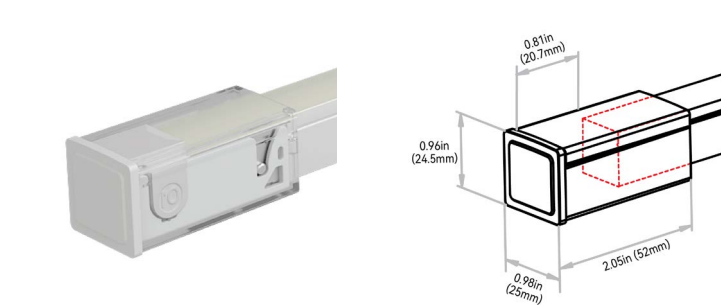
SCREW LOCK CONNECTOR ACCESSORY - IP67

NOTE: The tolerance is ±0.08in (2mm).

ANTI-WICKING FERRULE:

| 18AWG*2 | 18AWG*3 |

| 22AWG*3 | 22AWG*4 | 22AWG*3 |
| 20AWG*1 | 20AWG*1 | 20AWG*2 |

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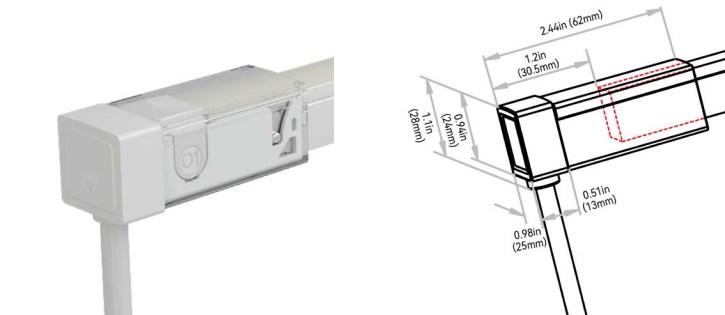2. The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.

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6

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E

BOTTOM EXIT: 7-B-#
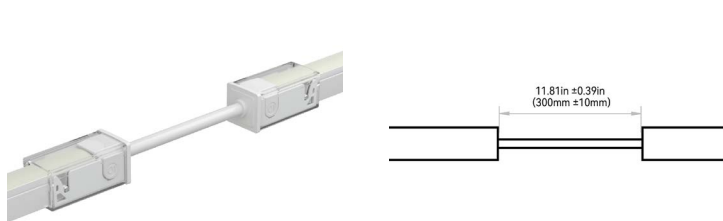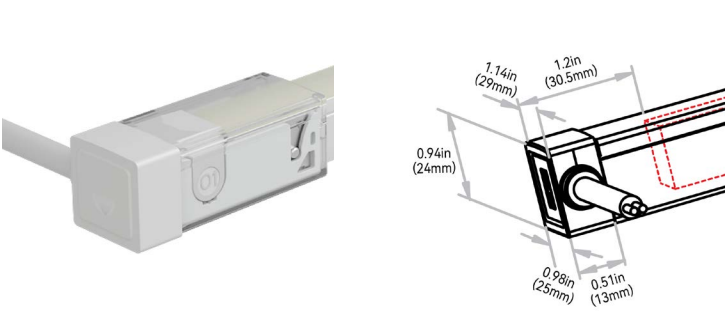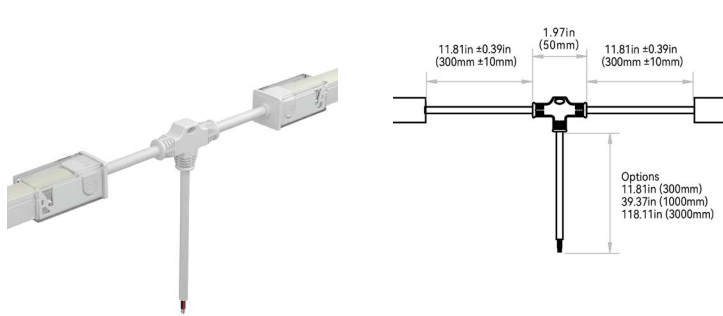
2.44in (62mm)
1.2in (30.5mm)
1.1in (28mm)
0.94in (24mm)
0.51in (13mm)
0.98in (25mm)

END JUMPER: 7-E-1

11.81in ±0.39in (300mm ±10mm)

SIDE LEFT EXIT: 7-C-#

1.14in (29mm)
1.2in (30.5mm)
0.94in (24mm)
0.98in (25mm)
0.51in (13mm)

POWER T-FEED: 7-H-#

11.81in ±0.39in (300mm ±10mm)
1.97in (50mm)
11.81in ±0.39in (300mm ±10mm)

Options
11.81in (300mm)
39.37in (1000mm)
118.11in (3000mm)

SIDE RIGHT EXIT: 7-D-#

1.14in (29mm)
1.2in (30.5mm)
0.94in (24mm)
0.98in (25mm)
0.51in (13mm)

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7
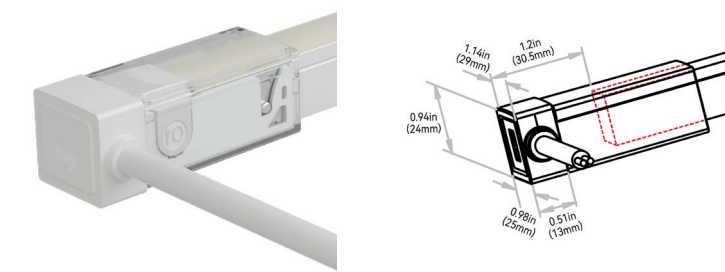
VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White

E

SILICONE SEAMLESS CONNECTOR

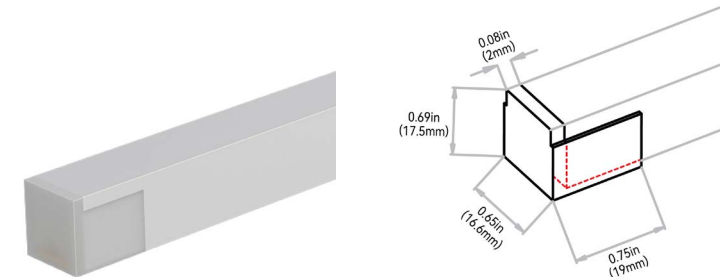|		
18AWG*2 STATIC PWM	18AWG*3 TUNABLE WHITE PWM	22AWG*3 20AWG*1 RGB PWM
22AWG*4 20AWG*1 RGBW PWM	18AWG*3 SPI-PIXEL	

NOTES:
1. Connector Tolerance ±0.02in (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.
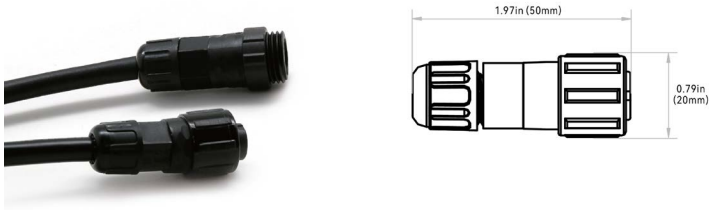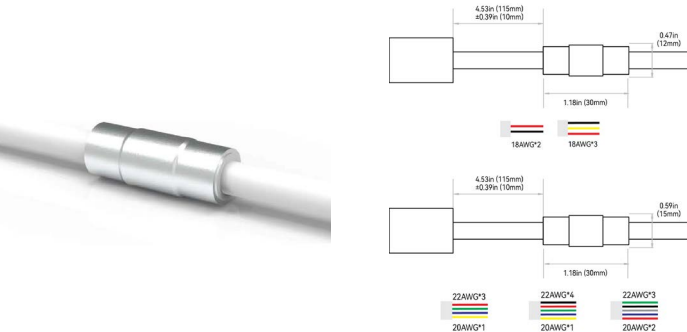
END EXIT: 2-A-#

0.20in (5mm)
0.65in (16.6mm)
ø0.39in (10mm)
0.69in (17.5mm)
0.85in (21.5mm)

END CAP: 2-I-8

0.08in (2mm)
0.69in (17.5mm)
0.65in (16.6mm)
0.75in (19mm)

SCREW LOCK CONNECTOR ACCESSORY - IP67

1.97in (50mm)
0.79in (20mm)

NOTE: The tolerance is ±0.08in (2mm).

ANTI-WICKING FERRULE:

4.53in (115mm) ±0.39in (10mm)
0.47in (12mm)
1.18in (30mm)
18AWG*2   18AWG*3

4.53in (115mm) ±0.39in (10mm)
0.59in (15mm)
1.18in (30mm)
22AWG*3 20AWG*1   22AWG*4 20AWG*1   22AWG*3 20AWG*2

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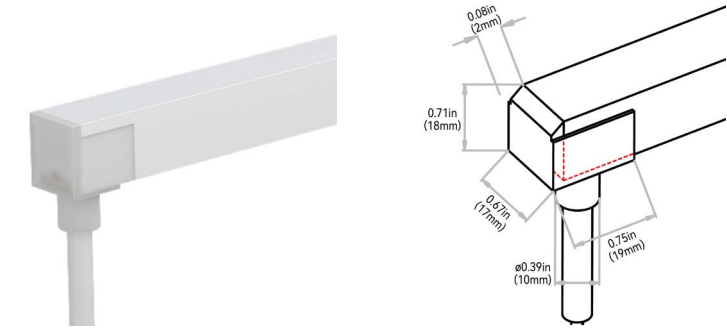2. The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.

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VIVID WAVE 320: SILICONE - 24V
Indoor & Outdoor Rated Linear Flex Profile - Tunable White

COMPLEXITY, SIMPLIFIED.

BOTTOM EXIT: 2-B-#

0.08in (2mm)
0.71in (18mm)
0.67in (17mm)
0.75in (19mm)
ø0.39in (10mm)

SIDE LEFT EXIT: 2-C-#

0.08in (2mm)
0.75in (19mm)
0.75in (19mm)
0.71in (18mm)
ø0.39in (10mm)

SIDE RIGHT EXIT: 2-D-#

0.08in (2mm)
0.75in (19mm)
0.75in (19mm)
0.71in (18mm)
ø0.39in (10mm)

END JUMPER: 2-E-1

11.81in ±0.39in (300mm ±10mm)

POWER T-FEED: 2-H-#

1.97in (50mm)
11.81in ±0.39in (300mm ±10mm)
11.81in ±0.39in (300mm ±10mm)

Options
11.81in (300mm)
39.37in (1000mm)
118.11in (3000mm)

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VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated | Linear Flex Profile - Tunable White

F

MOUNTING PROFILES

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

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10

VIVID WAVE 320: SILICONE - 24V

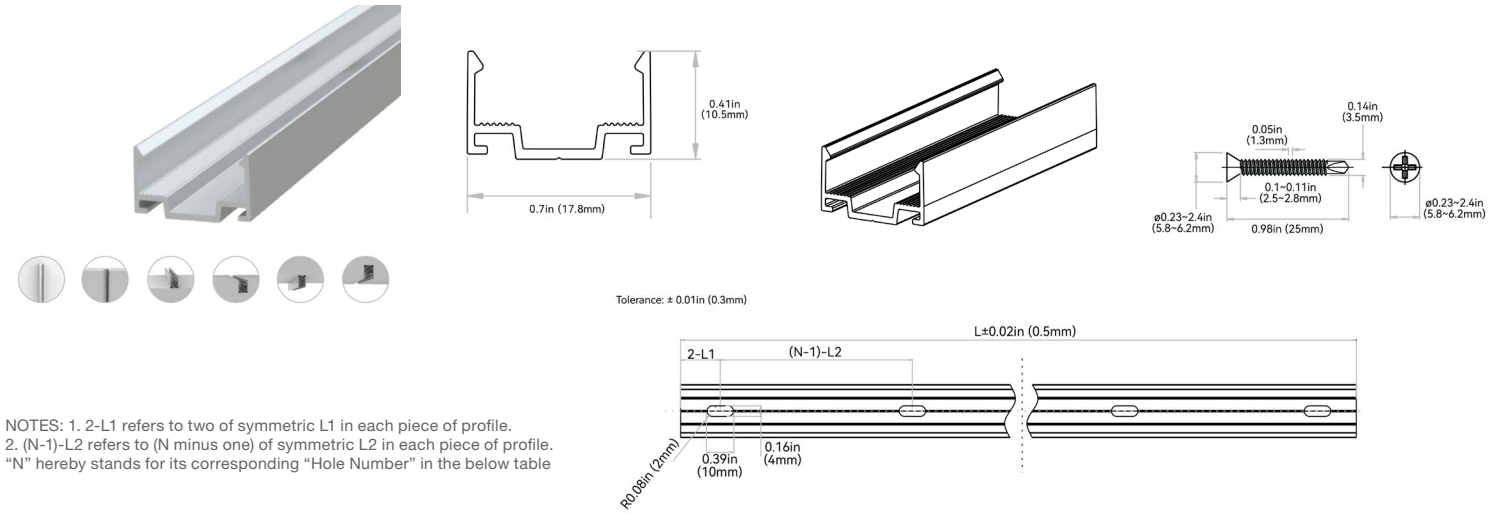Indoor & Outdoor Rated Linear Flex Profile - Tunable White

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.

Tolerance: ± 0.01in (0.3mm)

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

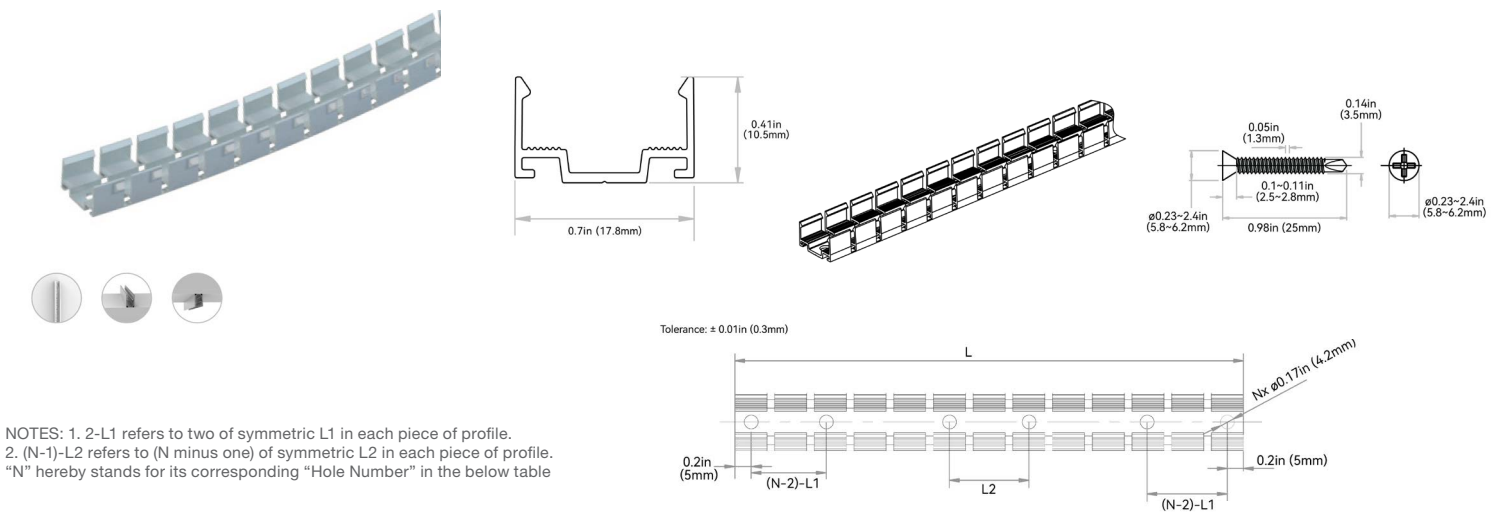| ORDER CODE	LEGACY CODE	STANDARD LENGTH	L1	L2	SLOTTED HOLE	HOLE #
A6-1-H-1	CL16RAL2C0LP	0.79in (20mm)	N/A	N/A	0.16*0.39in (4*10mm)	1
A6-3-H-1	CH16RAL0M5LP	19.68in (500mm)	1.97in (50mm)	7.87in (200mm)	0.16*0.39in (4*10mm)	3
A6-5-H-1	CH16RAL01MLP	39.37in (1000mm)	3.93in (100mm)	7.87in (200mm)	0.16*0.39in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

Tolerance: ± 0.01in (0.3mm)

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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VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White

G

MOUNTING ACCESSORIES

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

PIVOT BRACKET

Applicable to all mounting profiles.

Screw: PM 3*6

Screw: KA 3.5*25

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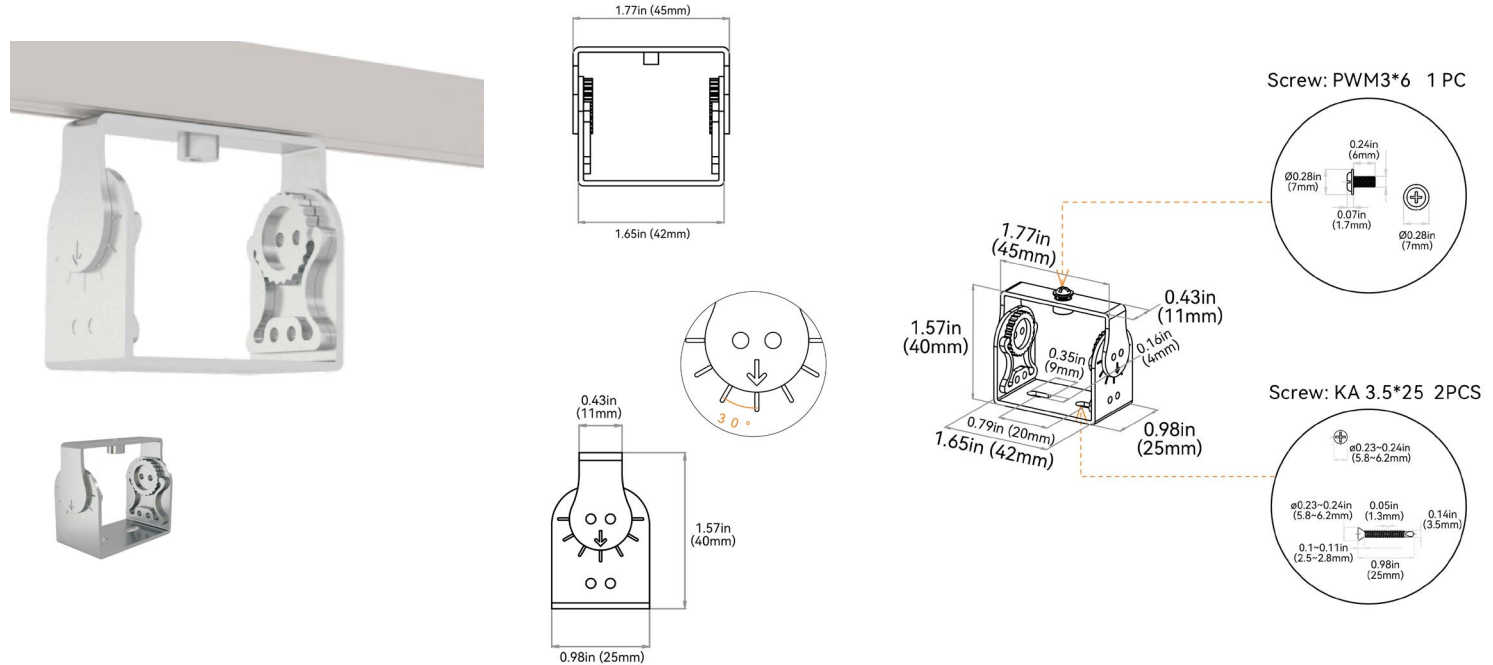
12
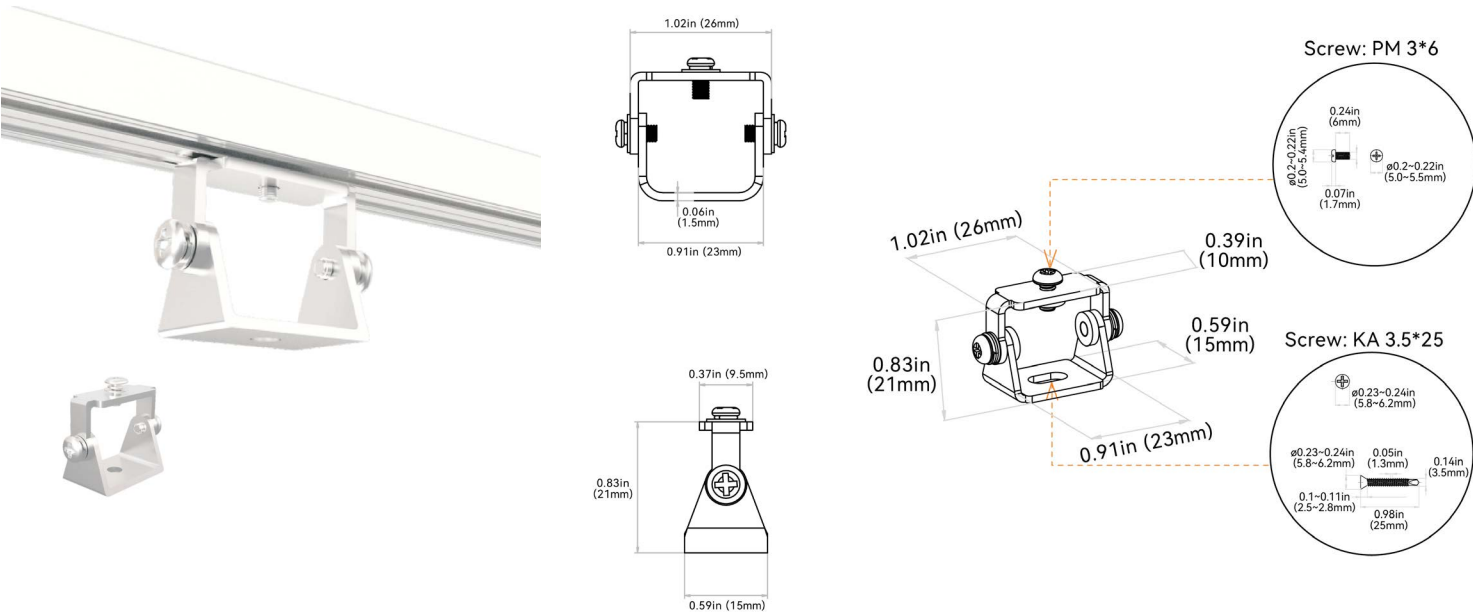
VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White

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ROTARY BRACKET

Applicable to all mounting profiles.

Screw: PWM3*6   1 PC

Screw: KA 3.5*25   2PCS

SIDE MOUNTING BRACKET

Applicable to all mounting profiles.

Screw: KA 3.5*25   2PCS

Screw: PWM3*6   1 PC