REQUEST QUOTE NOW

Customer: Date:

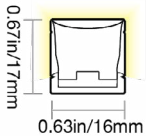
Project:

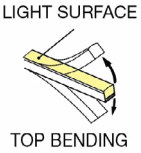
VIVID WAVE 320: SILICONE - 24V

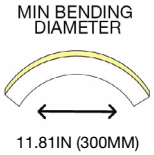
Indoor & Outdoor Rated Linear Flex Profile - SPI-Pixel

RoHS COMPLIANT | Class 2 | UL | CE

PROFILE CAPABILITIES







CERTIFICATIONS & FEATURES*

IP68 | IK08 | DMX | DALI | 24 DC | 10 YEAR WARRANTY | RESISTANT

FLAME
UV
SOLVENT
SALT WATER

TEMPERATURES

AMBIENT OPERATING TEMPERATURE:
-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		
H	2					V	1	H	2	W				
INPUT CONNECTORS						SERIES	MATERIAL	PROFILE	BENDING	JACKET/BASE + LENS COLOR		LED FUNCTION	LED COLOR	CHIP + CRI
See Page 5 to to select input connector						V = Vivid	1 = Silicone	H = Wave 320	2 = Top	W = White + Diffused		5 = SPI-Pixel All Colors 6 = SPI-Pixel-RGBW 2700K 3000K 4000K	J = 2700K L = 3000K M = 3500K N = 4000K Q = 5700K U = 2200K-5700K S = RGB	1 = Epistar SMD LED Chip RGB 2 = Epistar SMD LED Chip + CRI80 Whites Tunable White RGBW

C		D	E			F				G	
2C			H	2			H	1	2	O	
POWER	VOLTAGE + CIRCUIT TYPE**	ORDER UNIT LENGTH	OUTPUT CONNECTOR			MOUNTING PROFILE				MOUNTING ACCESSORIES	POWER SUPPLIES & CONTROLS:
F = 3.05W/ft (10W/m) Tunable White G = 3.66W/ft (12W/m) Whites J = 5.03W/ft (16.5W/m) RGB L = 6.71W/ft (22W/m) RGBW	2C = 24V DC CR	F = 3.28in (83.3mm) Whites RGB RGBW G = 3.94in (100mm) Tunable White	See Page 5 to select output connector			See Page 10 to select mounting profiles				See Page 12 to select accessory	By Others By GLLS

*Maximum IP and IK ratings achievable with appropriate accessories, and cable diameter: silicone SPI pixel = 0.26in (6.5mm). **The Current Regulated (CR) Integrated Circuit extends max run length. Do not use a CC or CR power supply, as it may cause damage.

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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

SPI pixel light engines use high-speed Serial Peripheral Interface (SPI) to control each LED independently. This allows smooth, real-time effects like chasing, fading, and color changes—ideal for dynamic displays, media façades, and interactive lighting.

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

24V DC SPI systems use digital dimming via SPI-compatible controllers, such as Artnet-to-SPI or DMX-to-SPI. These allow precise, flicker-free control of each pixel's brightness and color, ideal for dynamic and custom lighting effects.

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 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 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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COMPLEXITY, SIMPLIFIED.

B

LED COLORS

2700K 3000K 4000K 5700K 2200K-5700K RGB RGBW-27K RGBW-30K RGBW-40K

FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS

COLOR	LED COUNT	1 CONNECTOR FULL/DYNAMIC*	2 CONNECTORS FULL/DYNAMIC*	UL CLASS 2 MAX RUN**	FIXTURE COLOR TOLERANCE***	WAVELENGTH/ CCT	LED CRI	LED COLOR TOLERANCE	LUMEN COUNT	LEGACY ORDER CODE
2700K	25 LEDs/ft (84 LEDs/m)	49.2ft (15m) / Not Recommended	98.4ft (30m) / Not Recommended	26ft (8m)	3 SDCM	2725 ¬± 145K	82-87	2.3SDCM	274lm/ft (900lm/m)	SF16E0033WE27K24DC
3000K	25 LEDs/ft (84 LEDs/m)	49.2ft (15m) / Not Recommended	98.4ft (30m) / Not Recommended	26ft (8m)	3 SDCM	3045 ¬± 175K	82-87	2.3SDCM	274lm/ft (900lm/m)	SF16E0033WE30K24DC
4000K	25 LEDs/ft (84 LEDs/m)	49.2ft (15m) / Not Recommended	98.4ft (30m) / Not Recommended	26ft (8m)	3 SDCM	3985 ¬± 275K	82-87	2.3SDCM	274lm/ft (900lm/m)	SF16E0033WE40K24DC
5700K	25 LEDs/ft (84 LEDs/m)	49.2ft (15m) / Not Recommended	98.4ft (30m) / Not Recommended	26ft (8m)	3 SDCM	5669 ¬± 355K	82-87	2.3SDCM	274lm/ft (900lm/m)	SF16E0033WE57K24DC
2200K; 5700K; 2200-5700K	36 LEDs/ ft (120 LEDs/m)	49.2ft (15m) / Not Recommended	8.4ft (30m) / Not Recommended	31ft (10m)	3 SDCM	2238 ± 102K; 5669 ± 355K	82-87; 82-87;	2.3SDCM 2.3SDCM	67 lm/ft (220lm/m); 73lm/ft (240lm/m)	SF16E0033WEP-DW24DC
R; G; B; R+G+B	25 LEDs/ft (84 LEDs/m)	49.2ft (15m) / Not Recommended	98.4ft (30m) / Not Recommended	19ft (6m)	N/A	618-624nm; 522-530nm; 468-474nm; N/A	N/A	3nm	39lm/ft (130lm/m); 106lm/ft (350lm/m); 21lm/ft (70lm/m); 168lm/ft (550lm/m)	SF16E0033WERGB-24DC
R; G; B; 2700K	25 LEDs/ft (84 LEDs/m)	26.2ft (8m) / 39.4ft (12m)	52.5ft (16m) / 78.7ft (24m)	14ft (4m)	3 SDCM	618-624nm; 522-530nm; 468-474nm; 2725 ± 145K	N/A; N/A; N/A; 82-87	3nm; 3nm; 3nm; 2.3SDCM	39lm/ft (130lm/m); 106lm/ft (350lm/m); 21lm/ ft (70lm/m); 91lm/ft (300lm/m)	SF16E0033WER2724DC
R; G; B; 3000K	25 LEDs/ft (84 LEDs/m)	26.2ft (8m) / 39.4ft (12m)	52.5ft (16m) / 78.7ft (24m)	14ft (4m)	3 SDCM	618-624nm; 522-530nm; 468-474nm; 3045 ± 175K	N/A; N/A; N/A; 82-87	3nm; 3nm; 3nm; 2.3SDCM	39lm/ft (130lm/m); 106lm/ft (350lm/m); 21lm/ ft (70lm/m); 91lm/ft (300lm/m)	SF16E0033WER3024DC
R; G; B; 4000K	25 LEDs/ft (84 LEDs/m)	26.2ft (8m) / 39.4ft (12m)	52.5ft (16m) / 78.7ft (24m)	14ft (4m)	3 SDCM	618-624nm; 522-530nm; 468-474nm; 3985 ± 275K	N/A; N/A; N/A; 82-87	3nm; 3nm; 3nm; 2.3SDCM	39lm/ft (130lm/m); 106lm/ft (350lm/m); 21lm/ ft (70lm/m); 91lm/ft (300lm/m)	SF16E0033WER4024DC

*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. For runs over 65.62ft (20m), recommended to limit each to 65.62ft (20m) for easier handling. **For UL Class 2 calculations, GLLS uses a maximum output of 96 W / 96 VA for 24 V circuits, unless otherwise confirmed by the listed driver. All runs are assumed to be single-feed from one Class 2 output. Dual-feeding from separate drivers does not qualify as Class 2 unless the run is electrically split into isolated sections.***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 - SPI-Pixel

COMPLEXITY, SIMPLIFIED.

C

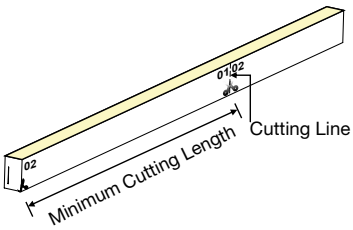
POWER & VOLTAGE

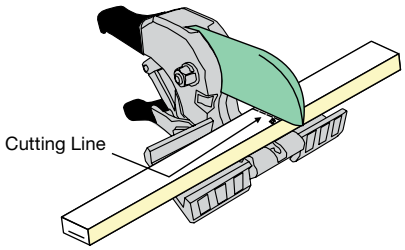
COLOR	VOLTAGE + CIRCUIT TYPE*	POWER CONSUMPTION
2700K	24V DC CR	3.66W/ft (12W/m)
3000K		
4000K		
5700K		
2200K-5700K		3.05W/ft (10W/m)
RGB		5.03W/ft (16.5W/m)
RGBW-27K		6.71W/ft (22W/m)
RGBW-30K		
RGBW-40K		

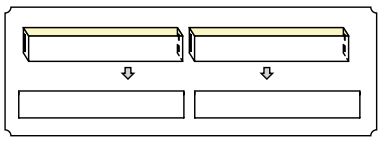
*The Current Regulated (CR) Integrated Circuit extends max run length. Do not use a CC or CR power supply, as it may cause damage.

D

CUTTING INSTRUCTIONS







COLOR	ORDER UNIT (CUTTING UNIT)
2700K	3.28in (83.3mm) (7 LEDs)
3000K	
4000K	
5700K	
2200K-5700K	3.94in (100mm) (12 LEDs)
RGB	3.28in (83.3mm) (7 LEDs)
RGBW-27K	
RGBW-30K	
RGBW-40K	

VIVID WAVE 320: SILICONE - 24V

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COMPLEXITY, SIMPLIFIED.

E

COMPATIBLE CONNECTORS

INPUT - 01

H	2				
PROFILE	BENDING	WIRING	INPUT CONNECTOR TYPE	INPUT ORIENTATION + TYPE	INPUT CABLE LENGTH (LEAD WIRE)

OUTPUT - 02

H	2				
PROFILE	BENDING	WIRING	OUTPUT CONNECTOR TYPE	OUTPUT ORIENTATION + TYPE	OUTPUT CABLE LENGTH (LEAD WIRE)
H = Wave 320	2 = Top	2 = 3 Wire (SPI Pixel) 3 = 3 Wire (SPI-Pixel Power Feed) 0 = N/A (End Cap)	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	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 FA = Factory Accessories	16E = Wave	1 = Side 2 = 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

VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - SPI-Pixel

COMPLEXITY, SIMPLIFIED.

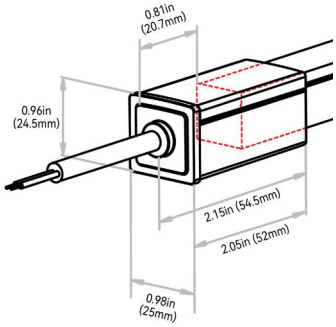
E

SNAP CONNECTOR

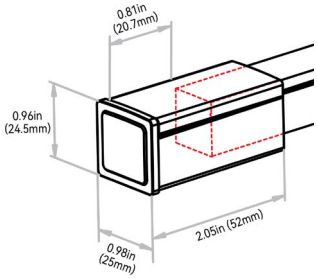
NOTES:
1. Connector Tolerance ±0.02in (0.5mm)
2. Cable diameter: Static Silicone = 0.26in (6.5mm)
3. Do not apply force to the feed cable
4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

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.

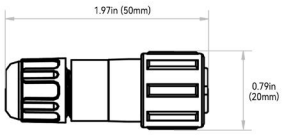
END EXIT: H2#7A#



END CAP: H207I8

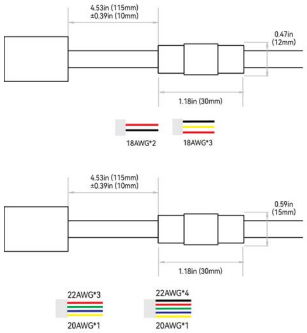


SCREW LOCK CONNECTOR ACCESSORY - IP67



NOTE: The tolerance is ±0.08in (2mm).

ANTI-WICKING FERRULE:



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.

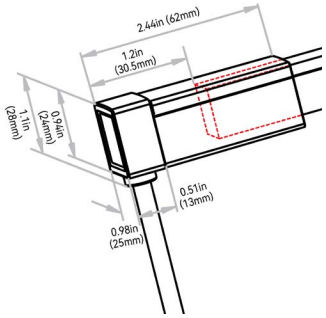
VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - SPI-Pixel

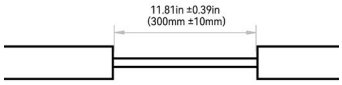
COMPLEXITY, SIMPLIFIED.

E

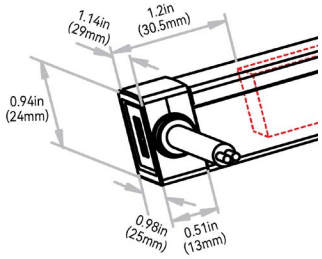
BOTTOM EXIT: H2#7B#



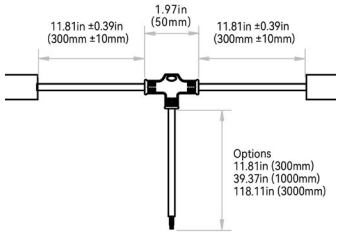
END JUMPER: H2#7E1



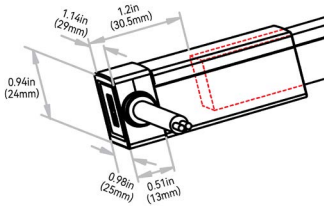
SIDE LEFT EXIT: H2#7C#



POWER T-FEED: H2#7H#



SIDE RIGHT EXIT: H2#7D#



VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - SPI-Pixel

COMPLEXITY, SIMPLIFIED.

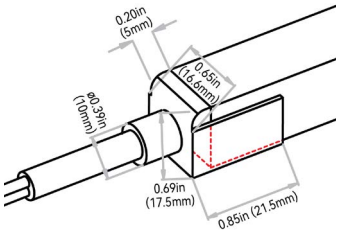
E

SILICONE SEAMLESS CONNECTOR

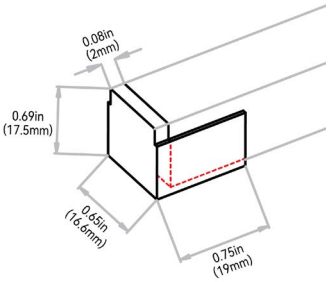
NOTES:
1. Connector Tolerance ±0.02in (0.5mm)
2. Cable diameter: Static Silicone = 0.26in (6.5mm)
3. Do not apply force to the feed cable
4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

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.

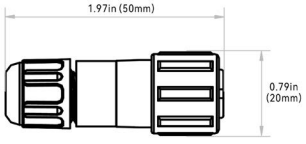
END EXIT: H2#2A#



END CAP: H202I8

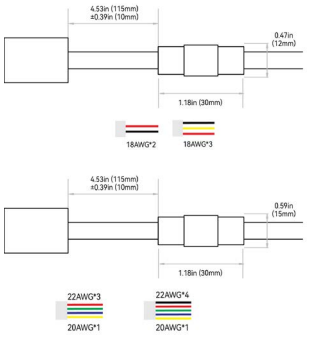


SCREW LOCK CONNECTOR ACCESSORY - IP67



NOTE: The tolerance is ±0.08in (2mm).

ANTI-WICKING FERRULE:



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.

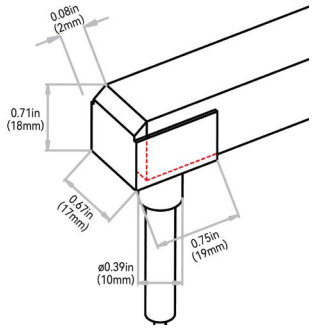
VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - SPI-Pixel

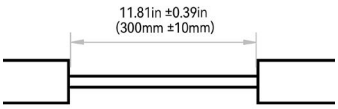
COMPLEXITY, SIMPLIFIED.

E

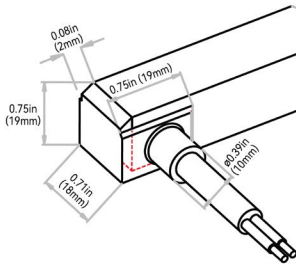
BOTTOM EXIT: H2#2B#



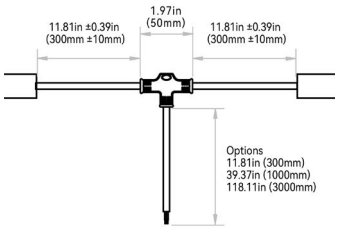
END JUMPER: H2#2E1



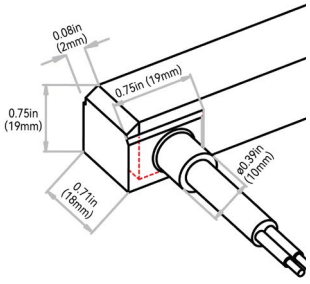
SIDE LEFT EXIT: H2#2C#



POWER T-FEED: H2#2H#



SIDE RIGHT EXIT: H2#2D#



VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - SPI-Pixel

COMPLEXITY, SIMPLIFIED.

F

MOUNTING PROFILES

		H	1	2
MOUNTING PROFILE TYPE	STANDARD LENGTH	PROFILE	COLOR	BEND
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	2 = Top
A7 = Aluminum Self-Locking Flexible	3 = 19.68in (500mm) 5 = 39.37in (1000mm)			

VIVID WAVE 320: SILICONE - 24V

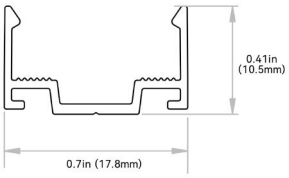
Indoor & Outdoor Rated Linear Flex Profile - SPI-Pixel

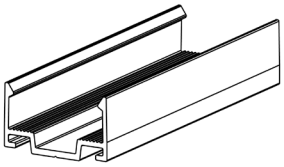
COMPLEXITY, SIMPLIFIED.

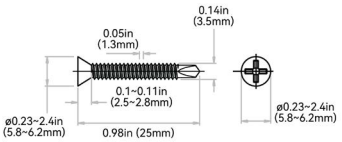
F

ALUMINUM PROFILE - SELF-LOCKING

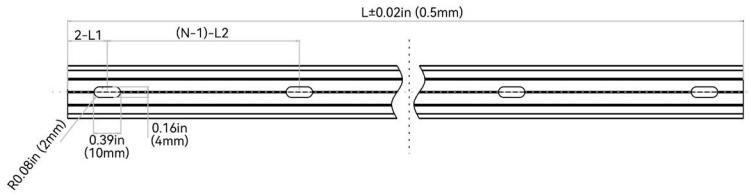
High-quality 6063 differing from the aluminum basic profile, it has a shallower shape and symmetric protruding tracks inside to discreetly fit the notched Wave 320. With it, the beauty of Wave 320 lights can be displayed from all sides to the fullest extent, while the reliable clamping force can be expected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







Tolerance: ± 0.01in (0.3mm)

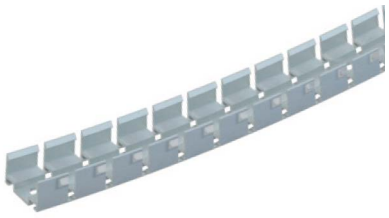


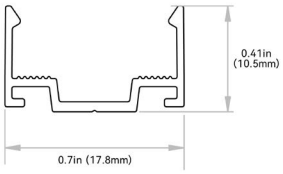
NOTES: 1. 2-L1 refers to two of symmetric L1 in each piece of profile.
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
"N" hereby stands for its corresponding "Hole Number" in the below table

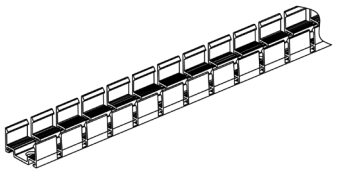
ORDER CODE	LEGACY CODE	STANDARD LENGTH	L1	L2	SLOTTED HOLE	HOLE #
A61H12	CL16RAL2C0LP	0.79in (20mm)	N/A	N/A	0.16*0.39in (4*10mm)	1
A63H12	CH16RAL0M5LP	19.68in (500mm)	1.97in (50mm)	7.87in (200mm)	0.16*0.39in (4*10mm)	3
A65H12	CH16RAL01MLP	39.37in (1000mm)	3.93in (100mm)	7.87in (200mm)	0.16*0.39in (4*10mm)	5
A66H12	CH16RAL02MLP	78.74in (2000mm)	3.93in (100mm)	7.87in (200mm)	0.16*0.39in (4*10mm)	10

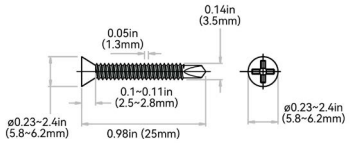
ALUMINUM PROFILE - SELF-LOCKING FLEXIBLE

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.

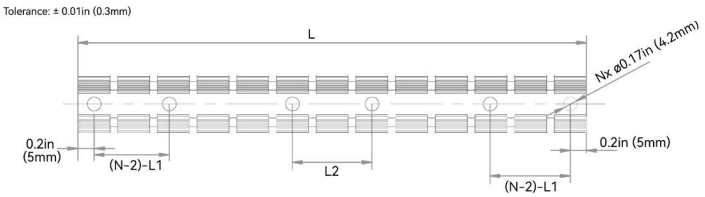








Tolerance: ± 0.01in (0.3mm)



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 #
A73H12	CH16RAL0M5LPTB	19.68in (500mm)	4.34in (110.3mm)	1.92in (48.9mm)	Ø 0.17in (4.2mm)	6
A75H12	CH16RAL01MLPTB	39.37in (1000mm)	4.59in (116.5mm)	3.89in (98.8mm)	Ø 0.17in (4.2mm)	10

VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - SPI-Pixel

COMPLEXITY, SIMPLIFIED.

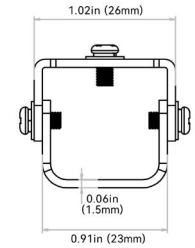
G

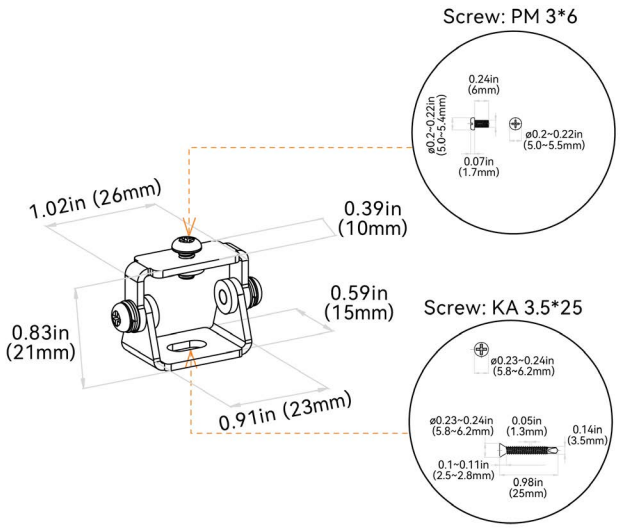
MOUNTING ACCESSORIES

	O
MOUNTING ACCESSORY TYPE	**PROFILE**
MA1 = Pivot Bracket	O = All Profiles
MA2 = Rotary Bracket	
MA3 = Side Bracket	

PIVOT BRACKET: MA1O | MA00PMB00000

Applicable to all mounting profiles.





VIVID WAVE 320: SILICONE - 24V

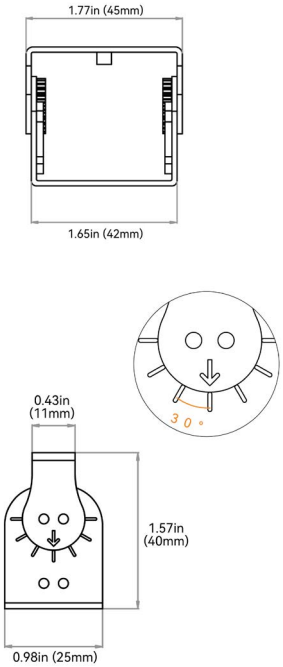
Indoor & Outdoor Rated Linear Flex Profile - SPI-Pixel

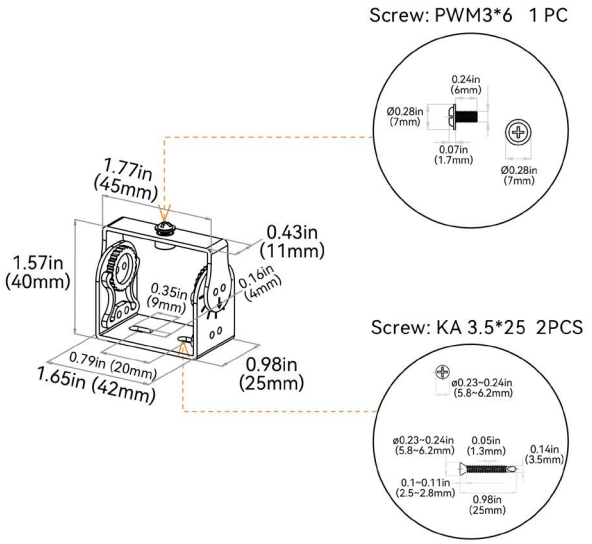
COMPLEXITY, SIMPLIFIED.

G

ROTARY BRACKET: MA2O | MA00BRL00000

Applicable to all mounting profiles.





SIDE MOUNTING BRACKET: MA3O | MA00SMB00000

Applicable to all mounting profiles.