

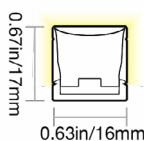


VIVID WAVE 320: SILICONE - 24V

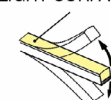
Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



PROFILE CAPABILITIES

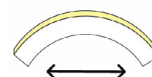


LIGHT SURFACE



TOP BENDING

MIN BENDING
DIAMETER



11.81IN (300MM)

CERTIFICATIONS & FEATURES



TEMPERATURES

AMBIENT OPERATING TEMPERATURE:

9W/m: -40°F to 140°F (-40°C to 60°C)
12W/m: -40°F to 131°F (-40°C to 55°C)

AMBIENT INSTALLATION TEMPERATURE:

-40°F to -140°F (-40°C to -60°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	1 = Static	A = Amber B = Blue C = Green E = Red H = 2200K J = 2700K L = 3000K M = 3500K N = 4000K Q = 5700K	1 = Epistar SMD LED Chip Colors 2 = Epistar SMD LED Chip + CRI80 Whites

C		D	E	F	G
POWER	VOLTAGE + CIRCUIT TYPE	ORDER UNIT LENGTH*	OUTPUT CONNECTOR	MOUNTING PROFILE	MOUNTING ACCESSORIES
E = 2.74W/ft (9W/m) Red G = 3.66W/ft (12W/m) Amber Blue Green Whites	2C = 24V DC CC	D = 2.19in (55.6mm) Amber Blue Green Whites T = 2.81in (71.4mm) Red	See Page 5 to select output connector	See Page 12 to select mounting profile	See Page 14 to select accessory

POWER SUPPLIES & CONTROLS:
By Others By GLLS

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

VIVID WAVE 320: SILICONE - 24V

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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 jacket 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

Static 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 Static 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 (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, 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

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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GLLS reserves the right to make any design changes for continuous improvement which will not affect the overall appearance or performance. REV. 20250801

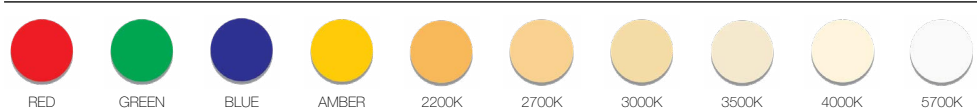
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B

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
RED	Epistar SMD LED Chip	38 LEDs/ft (126 LEDs/m)	59.1ft (18m) / N/A	118.1ft (36m) / N/A	N/A	618-624nm	N/A	<3nm	104lm/ft (340lm/m)	SF16E0032WERED24DC
GREEN	Epistar SMD LED Chip	38 LEDs/ft (126 LEDs/m)	49.2ft (15m) / N/A	98.4ft (30m) / N/A	N/A	522-530nm	N/A	<3nm	259lm/ft (850lm/m)	SF16E0032WEGRE24DC
BLUE	Epistar SMD LED Chip	38 LEDs/ft (126 LEDs/m)	49.2ft (15m) / N/A	98.4ft (30m) / N/A	N/A	468-474nm	N/A	<3nm	73lm/ft (240lm/m)	SF16E0032WEBLU24DC
AMBER	Epistar SMD LED Chip	38 LEDs/ft (126 LEDs/m)	49.2ft (15m) / N/A	98.4ft (30m) / N/A	N/A	588-594nm	N/A	<3nm	98lm/ft (320lm/m)	SF16E0032WEAMB24DC
2200K	Epistar SMD LED Chip + CRI80	38 LEDs/ft (126 LEDs/m)	49.2ft (15m) / N/A	98.4ft (30m) / N/A	3 SDCM	2238 ± 102K	82-87	2.3SDCM	259lm/ft (850lm/m)	SF16E0032WE22K24DC
2700K	Epistar SMD LED Chip + CRI80	38 LEDs/ft (126 LEDs/m)	49.2ft (15m) / N/A	98.4ft (30m) / N/A	3 SDCM	2725 ± 145K	82-87	2.3SDCM	320lm/ft (1050lm/m)	SF16E0032WE27K24DC
3000K	Epistar SMD LED Chip + CRI80	38 LEDs/ft (126 LEDs/m)	49.2ft (15m) / N/A	98.4ft (30m) / N/A	3 SDCM	3045 ± 175K	82-87	2.3SDCM	335lm/ft (1100lm/m)	SF16E0032WE30K24DC
3500K	Epistar SMD LED Chip + CRI80	38 LEDs/ft (126 LEDs/m)	49.2ft (15m) / N/A	98.4ft (30m) / N/A	3 SDCM	3465 ± 245K	82-87	2.3SDCM	335lm/ft (1100lm/m)	SF16E0032WE35K24DC
4000K	Epistar SMD LED Chip + CRI80	38 LEDs/ft (126 LEDs/m)	49.2ft (15m) / N/A	98.4ft (30m) / N/A	3 SDCM	3985 ± 275K	82-87	2.3SDCM	335lm/ft (1100lm/m)	SF16E0032WE40K24DC
5700K	Epistar SMD LED Chip + CRI80	38 LEDs/ft (126 LEDs/m)	49.2ft (15m) / N/A	98.4ft (30m) / N/A	3 SDCM	5669 ± 355K	82-87	2.3SDCM	335lm/ft (1100lm/m)	SF16E0032WE57K24DC

Note: 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. 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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Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



C

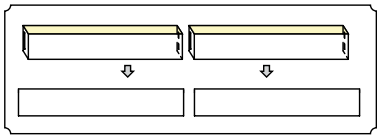
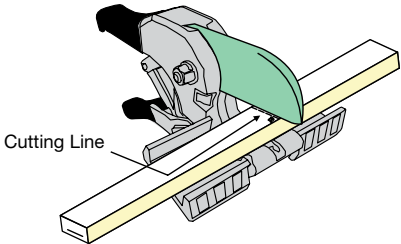
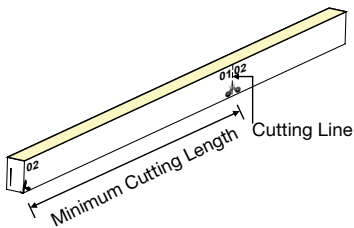
POWER & VOLTAGE

COLOR	VOLTAGE + CIRCUIT TYPE	POWER CONSUMPTION
RED	24V DC CC	2.43W/ft (8W/m)
GREEN		
BLUE		
AMBER		
2200K		
2700K		3.66W/ft (12W/m)
3000K		
3500K		
4000K		
5700K		

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)
RED	2.81in (71.4mm) (9 LEDs)
GREEN	
BLUE	
AMBER	
2200K	
2700K	2.19in (55.6mm) (6 LEDs)
3000K	
3500K	
4000K	
5700K	



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)
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OUTPUT - 02

OUTPUT CONNECTOR TYPE	OUTPUT ORIENTATION + TYPE	OUTPUT CABLE LENGTH (LEAD WIRE)
6 = Swivel	A = End Exit I = End Cap	1 = 0.98ft (0.3m) 2 = 3.28ft (1m) 8 = N/A
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
8 = Click	A = End Exit I = End Cap	1 = 0.98ft (0.3m) 2 = 3.28ft (1m) 3 = 9.84ft (3m) 4 = 16ft (5m) 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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E

SWIVEL CONNECTOR

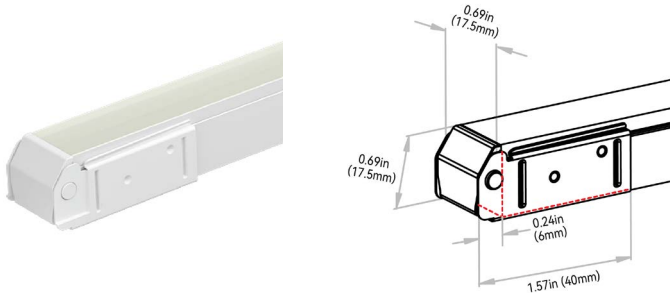
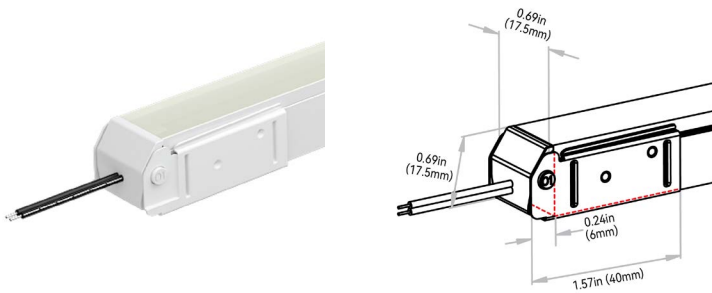


- NOTES:
- 1. Connector Tolerance $\pm 0.02\text{in}$ (0.5mm)
 - 2. Cable diameter: Static Silicone = 0.26in (6.5mm)
 - 3. Do not apply force to the feed cable
 - 4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

IP20, Omni-directional Cable, Tool-less, Mini Size. Recommended for indoor dry environments and for onsite length adjustments. Under the simple and convenient design concept, we developed our swivel connector, which is superb for indoor concealed installation in narrow space thanks to its mini size and omni-directional cable. Navigated by user manual, tool-free and quick assembly can be realized, and Press & Seal design enables the functions of energization and dust-proof rapidly. DIY or custom factory assembly.

END EXIT: 6-A-#

END CAP: 6-I-#



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E

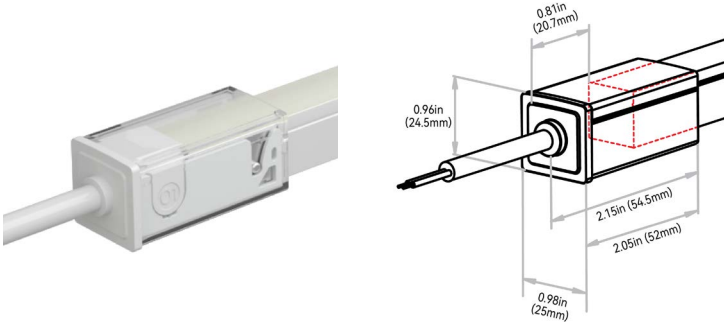
SNAP CONNECTOR



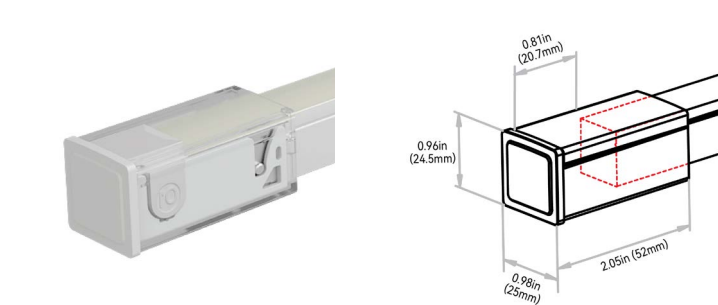
- NOTES:
- 1. Connector Tolerance ± 0.02 in (0.5mm)
 - 2. Cable diameter: Static, Tunable White & SPL Silicone = 0.26in (6.5mm)
 - 3. Do not apply force to the feed cable
 - 4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

IP67, tool-less; good solution for protection from water ingress; 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

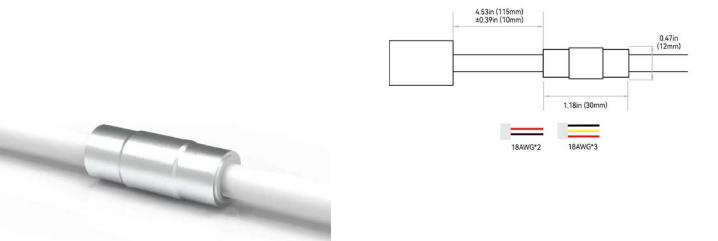


SCREW LOCK CONNECTOR ACCESSORY - IP67



NOTE: The tolerance is ± 0.08 in (2mm).

ANTI-WICKING FERRULE:



- NOTES:
- 1. The anti-wicking ferrule is located at 4.53in (115mm) (± 0.39 in [± 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.



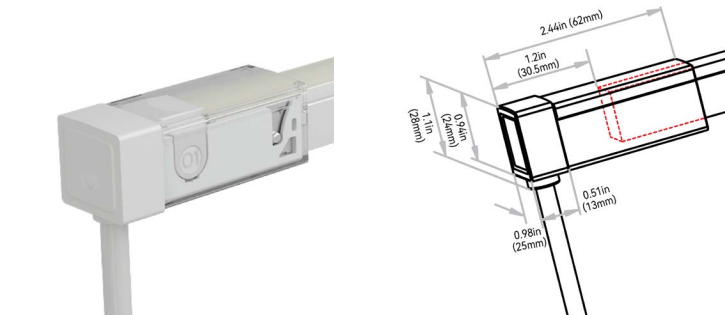
VIVID WAVE 320: SILICONE - 24V

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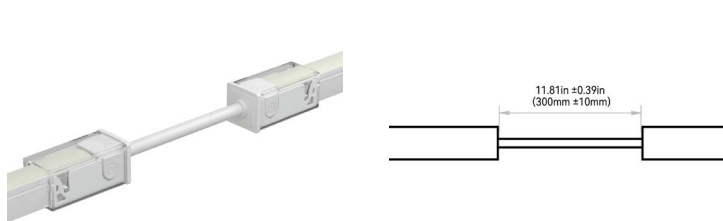


E

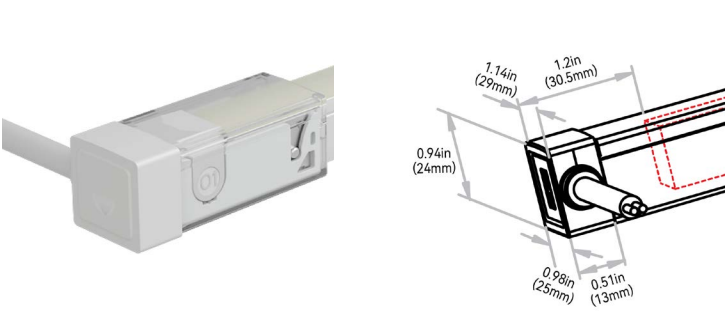
BOTTOM EXIT: 7-B-#



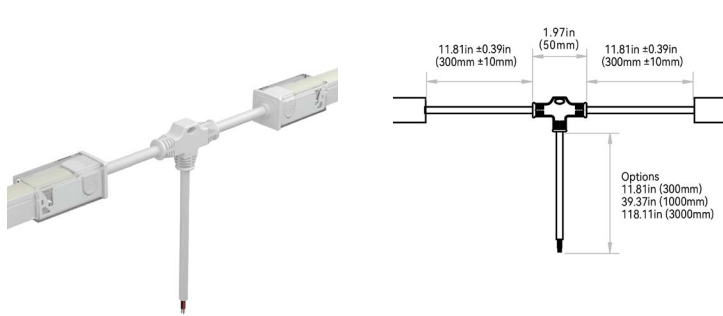
END JUMPER: 7-E-1



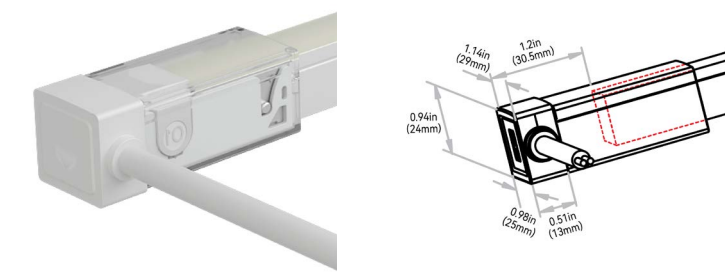
SIDE LEFT EXIT: 7-C-#



POWER T-FEED: 7-H-#



SIDE RIGHT EXIT: 7-D-#



VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



E

CLICK CONNECTOR

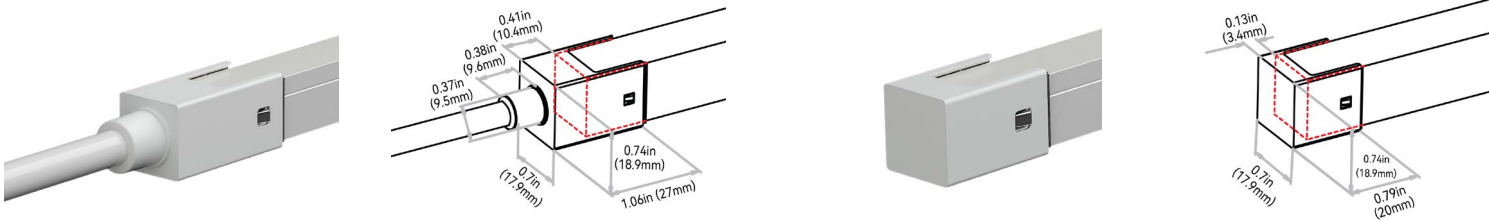


- NOTES:
1. Connector Tolerance $\pm 0.02\text{in}$ (0.5mm)
 2. Cable diameter: Static Silicone = 0.26in (6.5mm)
 3. Do not apply force to the feed cable
 4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

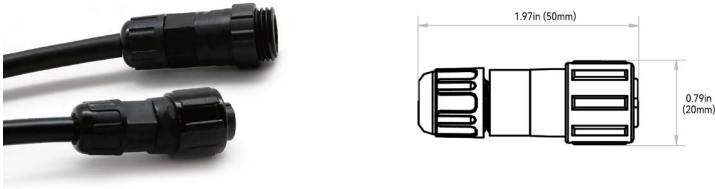
IP67; tool-less & mini size. Recommended for outdoor environments & for onsite length adjustments. Click connector, a new type of field-assembly connector for outdoor use, brass casing, features unexceptional adaptability and excellent weather resistance. It achieves the unique balance between waterproof performance and physical dimension, highly functional yet incredibly minimal, giving you an extraordinary visual experience due to the less dark area at the jointing area. The whole assembling process is tool-less and quick, benefiting from its simple but smart structure design. The remarkable innovation lies in the invisible waterproof pretreatment on the cable, which facilitates the wiring and slotting on the site greatly as the extra anti-wicking ferrule on the cable is no longer needed. DIY or custom factory assembly.

END EXIT: 8-A-#

END CAP: 8-I-8



SCREW LOCK CONNECTOR ACCESSORY - IP67



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

VIVID WAVE 320: SILICONE - 24V

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E

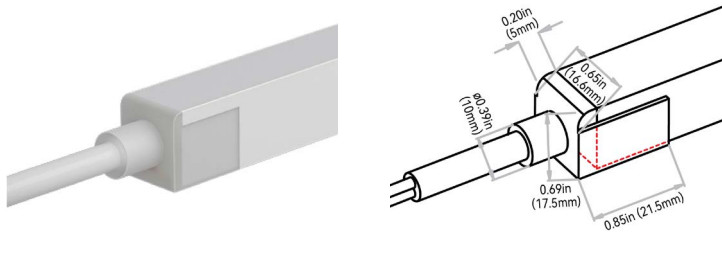
SILICONE SEAMLESS CONNECTOR



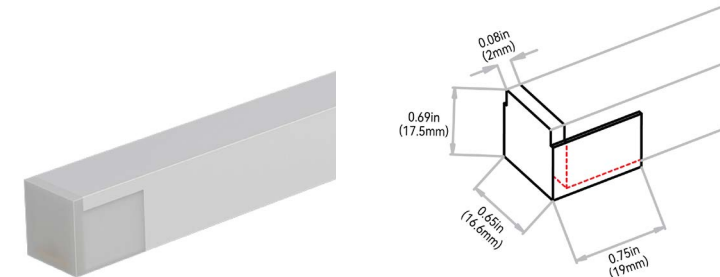
- NOTES:
1. Connector Tolerance $\pm 0.02\text{in}$ (0.5mm)
 2. Cable diameter: Static Silicone = 0.26in (6.5mm)
 3. Do not apply force to the feed cable
 4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

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

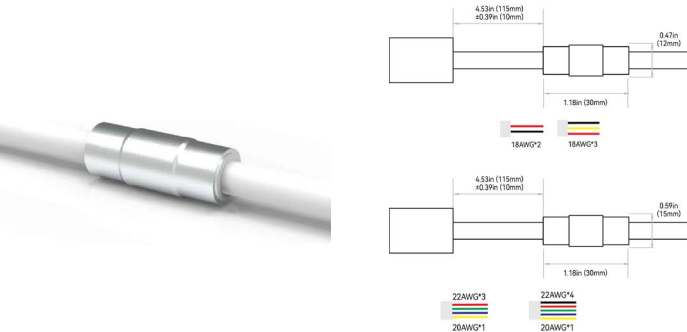


SCREW LOCK CONNECTOR ACCESSORY - IP67



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

ANTI-WICKING FERRULE:



- NOTES:
1. The anti-wicking ferrule is located at 4.53in (115mm) ($\pm 0.39\text{in}$ [$\pm 10\text{mm}$] 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.



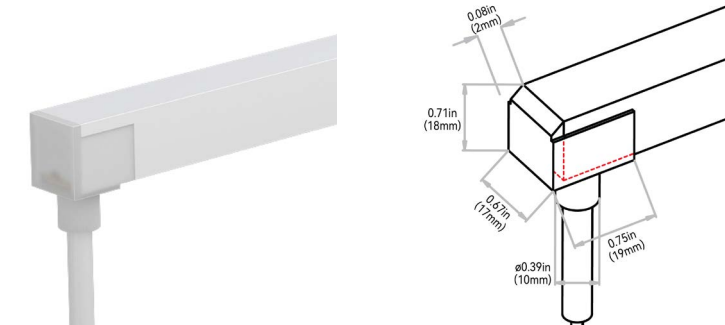
VIVID WAVE 320: SILICONE - 24V

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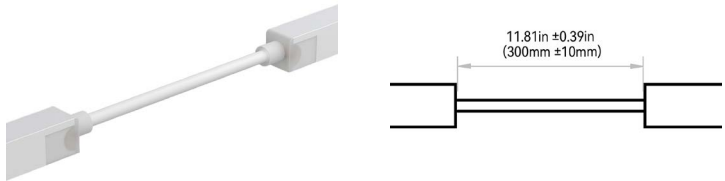


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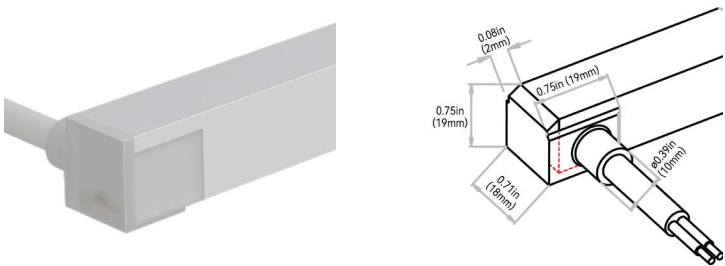
BOTTOM EXIT: 2-B-#



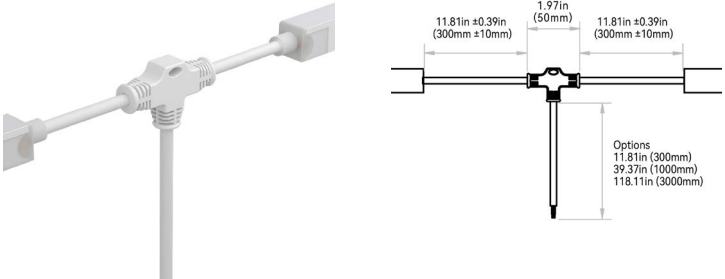
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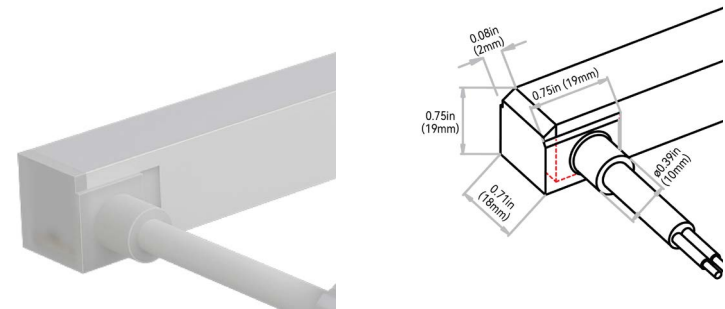
SIDE LEFT EXIT: 2-C-#



POWER T-FEED: 2-H-#



SIDE RIGHT EXIT: 2-D-#



VIVID WAVE 320: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



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)		



VIVID WAVE 320: SILICONE - 24V

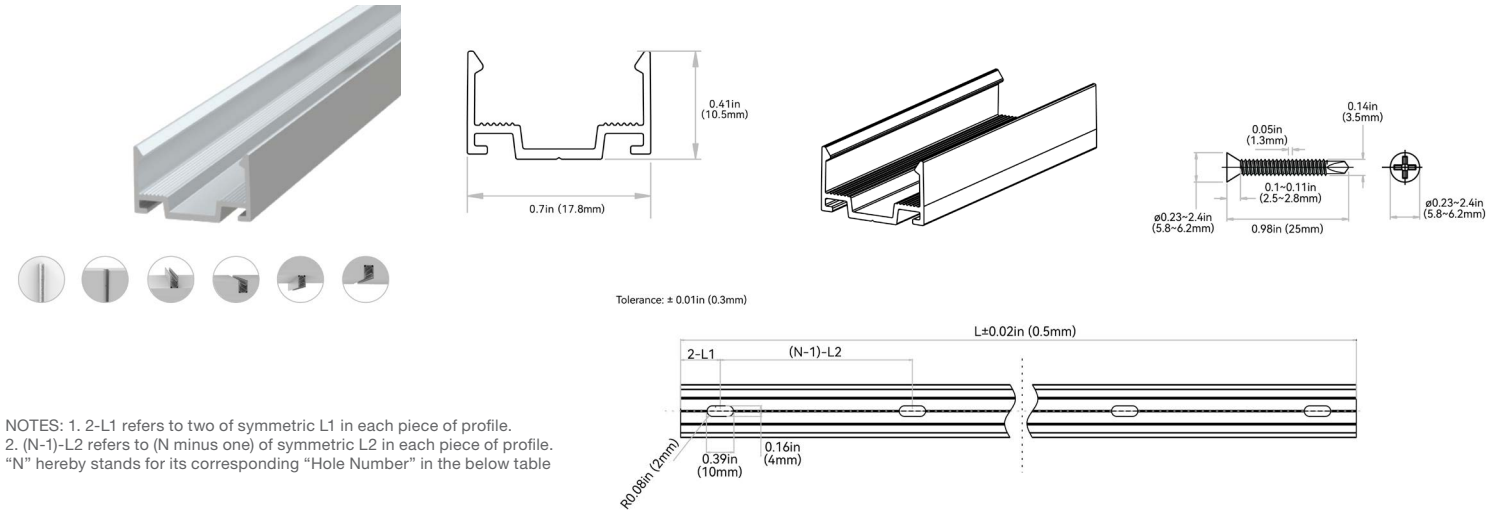
Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



F

ALUMINUM PROFILE - SELF-LOCKING

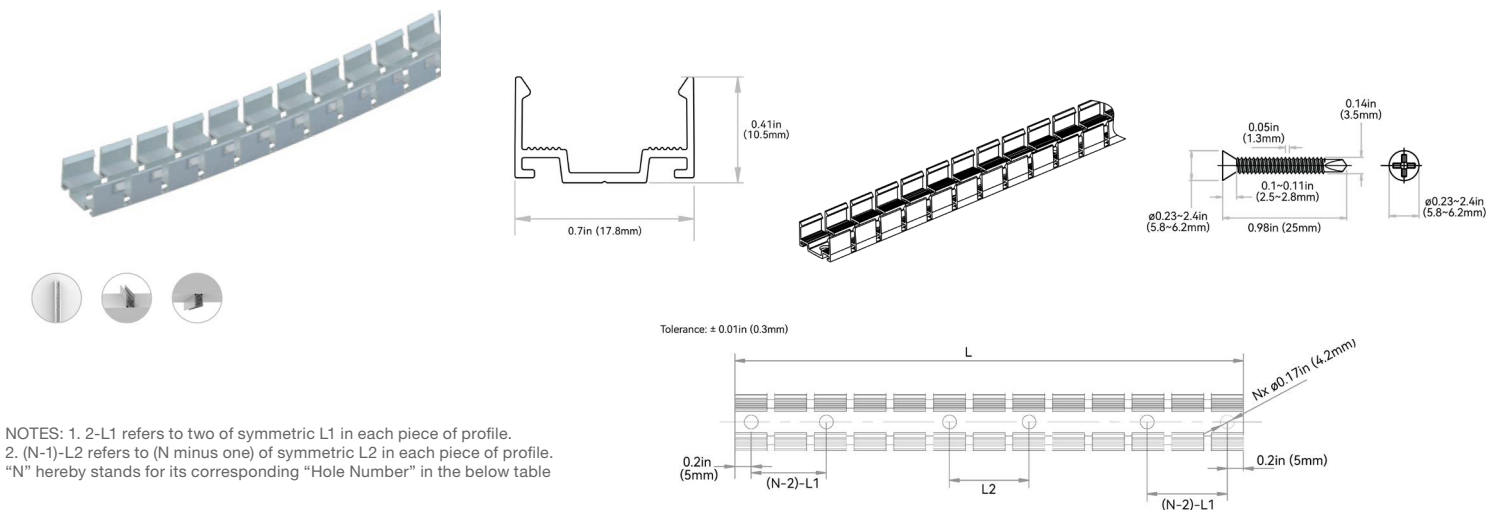
High-quality 6063 differing from the aluminum basic profile, it has a shallower shape and symmetric protruding tracks inside to discreetly fit the notched Wave 320. With it, the beauty of Wave 320 lights can be displayed from all sides to the fullest extent, while the reliable clamping force can be expected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



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.



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



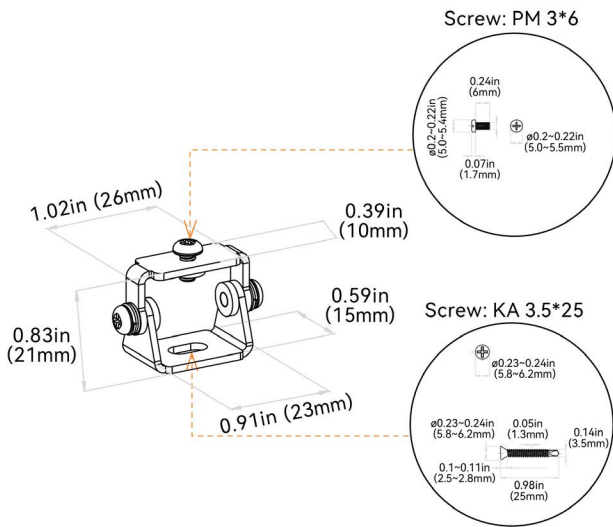
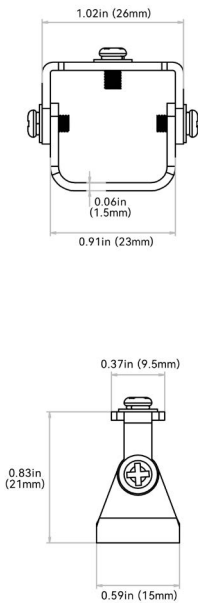
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MOUNTING ACCESSORIES

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

PIVOT BRACKET

Applicable to all mounting profiles.



VIVID WAVE 320: SILICONE - 24V

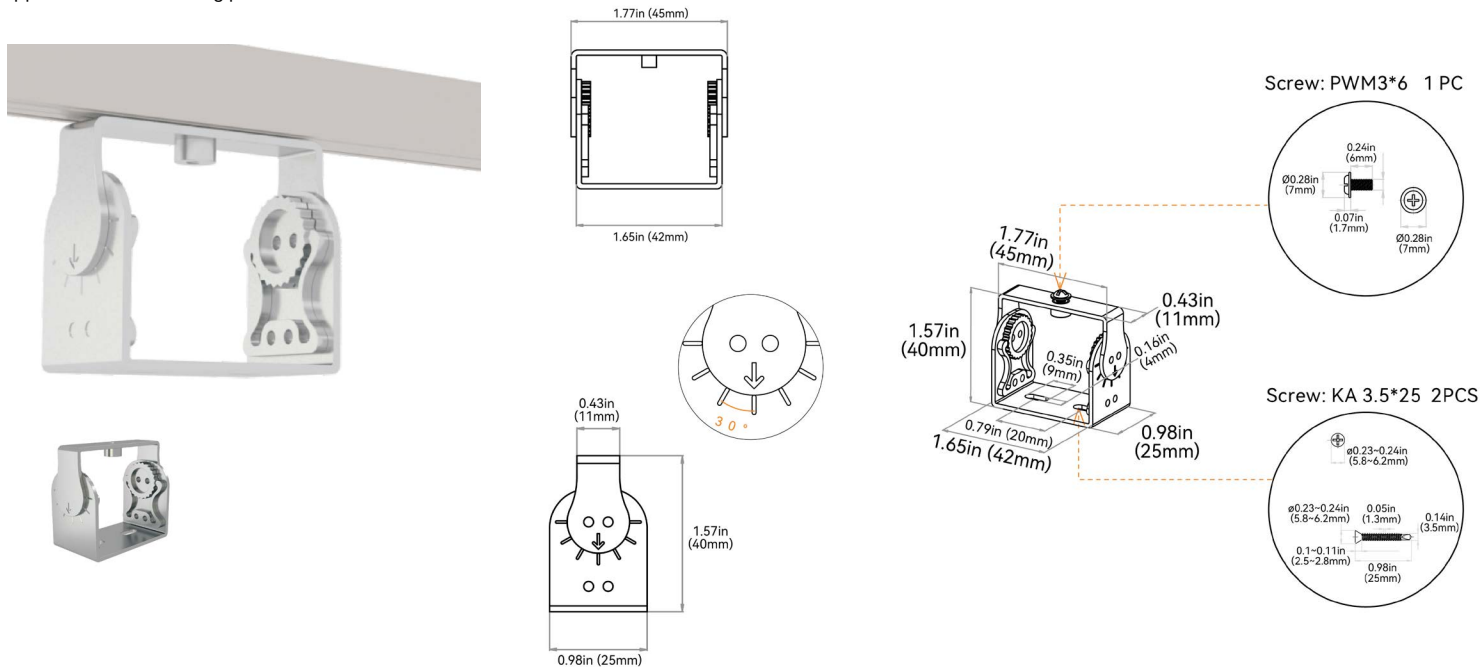
Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



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ROTARY BRACKET

Applicable to all mounting profiles.



SIDE MOUNTING BRACKET

Applicable to all mounting profiles.

