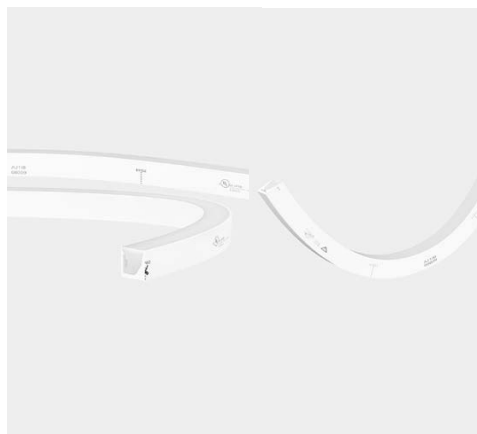


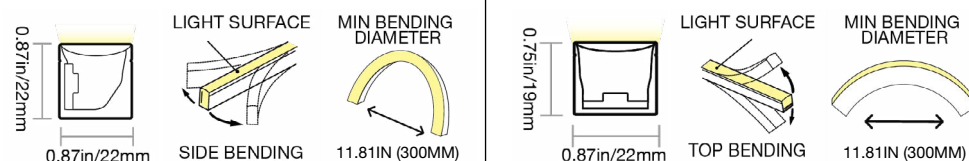


VIVID WAVE XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White



PROFILE CAPABILITIES



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	G = Wave XL	1 = Side 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 13 to select connector		See Page 19 to select mounting		By Others By GLLS

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

VIVID WAVE XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White



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 cover 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 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



VIVID WAVE XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White



B

LED COLORS



FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - SIDE BEND

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	51 LEDs/ft (168 LEDs/m)	49.2ft (15m) / Not Recommended	98.4ft (30m) / Not Recommended	3 SDCM	2239 ± 82K; 5665 ± 355K N/A	82-87	2.3SDCM	76lm/ft (250lm/m); 91lm/ft (300lm/m)	SF22H1013WEDWH24DV

FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS - WHITE JACKET + DIFFUSED LENS - TOP BEND

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	51 LEDs/ft (168 LEDs/m)	49.2ft (15m) / Not Recommended	98.4ft (30m) / Not Recommended	3 SDCM	2239 ± 82K; 5665 ± 355K N/A	82-87	2.3SDCM	95lm/ft (310lm/m); 113lm/ft (370lm/m)	SF22H0013WEDWH24DV

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.



VIVID WAVE XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White



C

POWER & VOLTAGE

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

D

CUTTING INSTRUCTIONS

COLOR	ORDER UNIT (CUTTING UNIT)
2200K-5700K	3.28in (83.3mm) (7 LEDs)



VIVID WAVE XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White



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

XX	22H	X	01	XX	SE	X	XX	XXX	X
PRODUCT TYPE	PROFILE	BENDING	LIGHT EMITTING	FUNCTIONALITY	CONNECTOR TYPE	FIXTURE END	EXIT TYPE	LENGTH	
FA = Factory Accessories	22H = WaveXL	1 = Side 2 = Top	01 = 22H	2W = Static/DTW 3W = Tunable White/SPI-Pixel 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 WAVE XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White



E

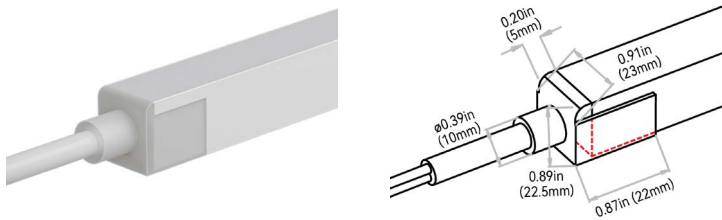
SILICONE SEAMLESS CONNECTOR



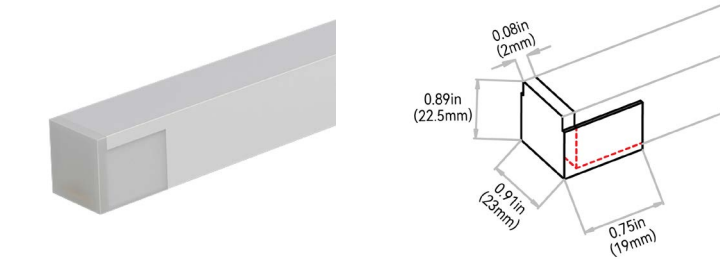
- NOTES:
1. Connector Tolerance ± 0.02 in (0.5mm)
 2. Cable diameter: Static, Tunable, RGB, RGBW & SPI Silicone = 0.26in (6.5mm) & DMX Silicone = 0.27 (6.8mm)
 3. Do not apply force to the feed cable
 4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage drop

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

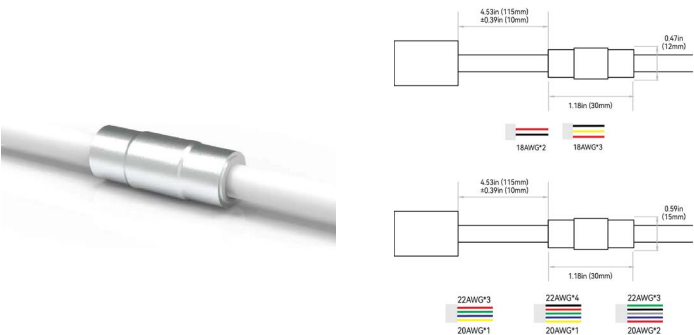


SCREW LOCK CONNECTOR ACCESSORY - IP67



NOTE: The tolerance is ± 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.



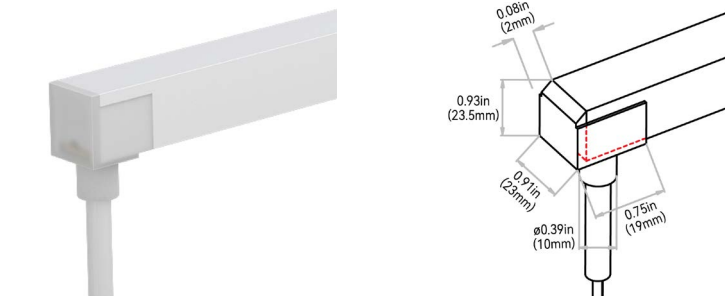
VIVID WAVE XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White

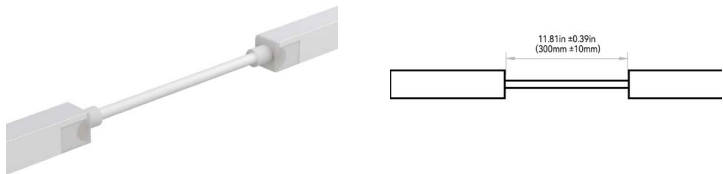


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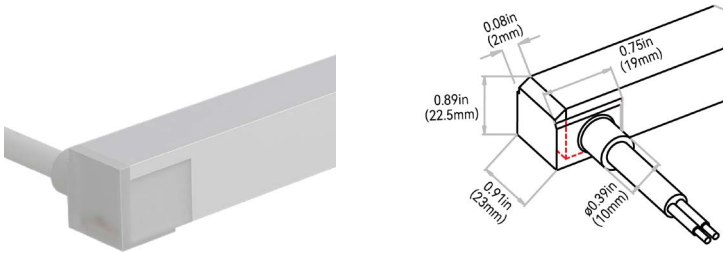
BOTTOM EXIT: 2-B-#



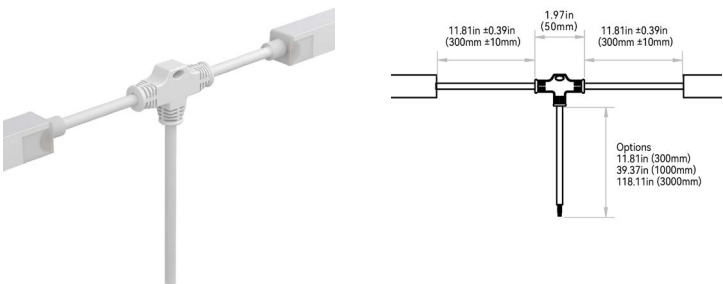
END JUMPER: 2-E-1



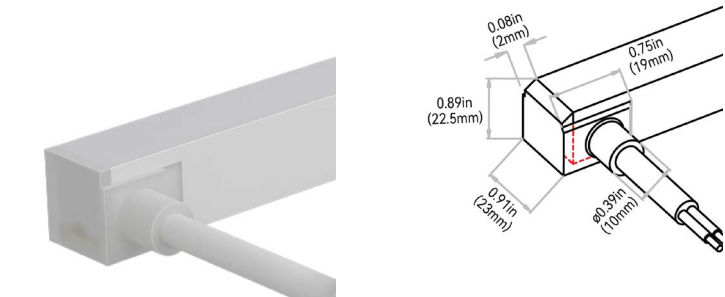
SIDE LEFT EXIT: 2-C-#



POWER T-FEED: 2-H-#



SIDE RIGHT EXIT: 2-D-#



VIVID WAVE XL: SILICONE - 24V

Indoor & Outdoor Rated Linear Flex Profile - Tunable White



F

MOUNTING PROFILES

MOUNTING PROFILE TYPE	STANDARD LENGTH	PROFILE	COLOR	BEND
A3 = Aluminum Recessed Silicone Grip	1 = 0.79in (20mm) 3 = 19.68in (500mm) 5 = 39.37in (1000mm) 6 = 78.74in (2000mm)	G = Wave XL	1 = Standard	1 = Side 2 = Top
A4 = Aluminum Silicone Grip	1 = 0.79in (20mm) 3 = 19.68in (500mm) 5 = 39.37in (1000mm) 6 = 78.74in (2000mm)			
A5 = Aluminum Flexible	3 = 19.68in (500mm) 5 = 39.37in (1000mm)			
C1 = Silicone Flexible	B = 4.33in (110mm) C = 7.87in (200mm) 3 = 19.68in (500mm) 5 = 39.37in (1000mm)		2 = Black 3 = White 0 = Custom	

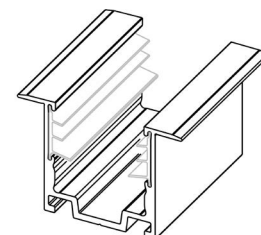
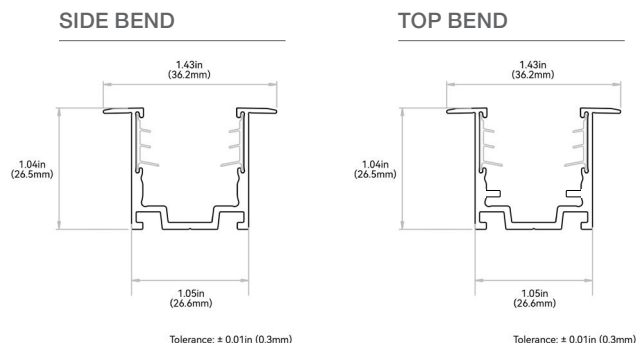
Indoor & Outdoor Rated Linear Flex Profile - Tunable White



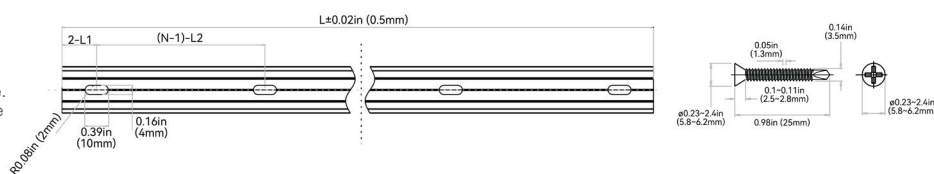
F

ALUMINUM PROFILE - RECESSED - SILICONE GRIP

High-quality 6063 aluminum with thin-wall, light-weight design to fit the fixture tightly. Includes a serrated silicone grip insert designed to hold fixture with additional force. Recommended on projects mounted upside down with lighting mounted recessed in a cavity so only the lens is shown. It is deformation and rust resistant, and cost-effective. Please refer to install manual for proper installation practices.



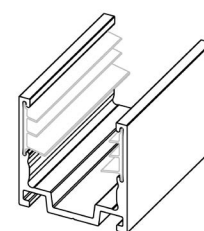
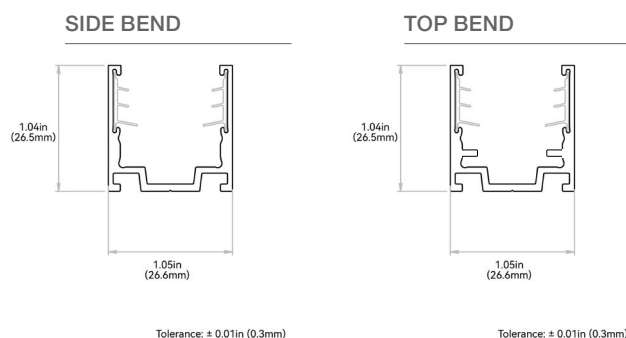
NOTES: 1. 2-L1 refers to two of symmetric L1 in each piece of profile.
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
"N" hereby stands for its corresponding "Hole Number" in the below table



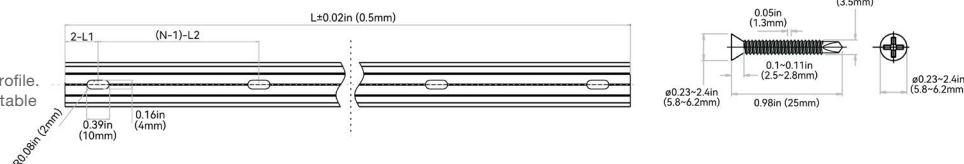
ORDER CODE	LEGACY ORDER CODE SIDE	LEGACY ORDER CODE TOP	STANDARD LENGTH	L1	L2	SLOTTED HOLE	HOLE #
A3-1-G-1-#	CH22RRA12CSE	CL22RRA02CSE	0.79in (20mm)	0.39in (10mm)	N/A	0.16"0.39in (4"10mm)	1
A3-3-G-1-#	CH22RRA10M5SE	CH22RRA0M5SE	1.98in (500mm)	1.97in (50mm)	7.87in (200mm)	0.16"0.39in (4"10mm)	3
A3-5-G-1-#	CH22RRA11MSE	CH22RRA01MSE	39.37in (1000mm)	3.93in (100mm)	7.87in (200mm)	0.16"0.39in (4"10mm)	5
A3-6-G-1-#	CH22RRA12MSE	CH22RRA02MSE	78.74in (2000mm)	3.93in (100mm)	7.87in (200mm)	0.16"0.39in (4"10mm)	10

ALUMINUM PROFILE - SILICONE GRIP

High-quality 6063 aluminum with thin-wall, light-weight design. Includes a serrated 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 ORDER CODE SIDE	LEGACY ORDER CODE TOP	STANDARD LENGTH	L1	L2	SLOTTED HOLE	HOLE #
A4-1-G-1-#	CL221AL02CSE	CL220AL02CSE	0.79in (20mm)	0.39in (10mm)	N/A	0.16"0.39in (4*10mm)	1
A4-3-G-1-#	CH221AL0M5SE	CH220AL0M5SE	1.968in (500mm)	1.97in (50mm)	7.87in (200mm)	0.16"0.39in (4*10mm)	3
A4-5-G-1-#	CH221AL01MSE	CH220AL01MSE	39.37in (1000mm)	3.93in (100mm)	7.87in (200mm)	0.16"0.39in (4*10mm)	5
A4-6-G-1-#	CH221AL02MSE	CH220AL02MSE	78.74in (2000mm)	3.93in (100mm)	7.87in (200mm)	0.16"0.39in (4*10mm)	10



VIVID WAVE XL: SILICONE - 24V

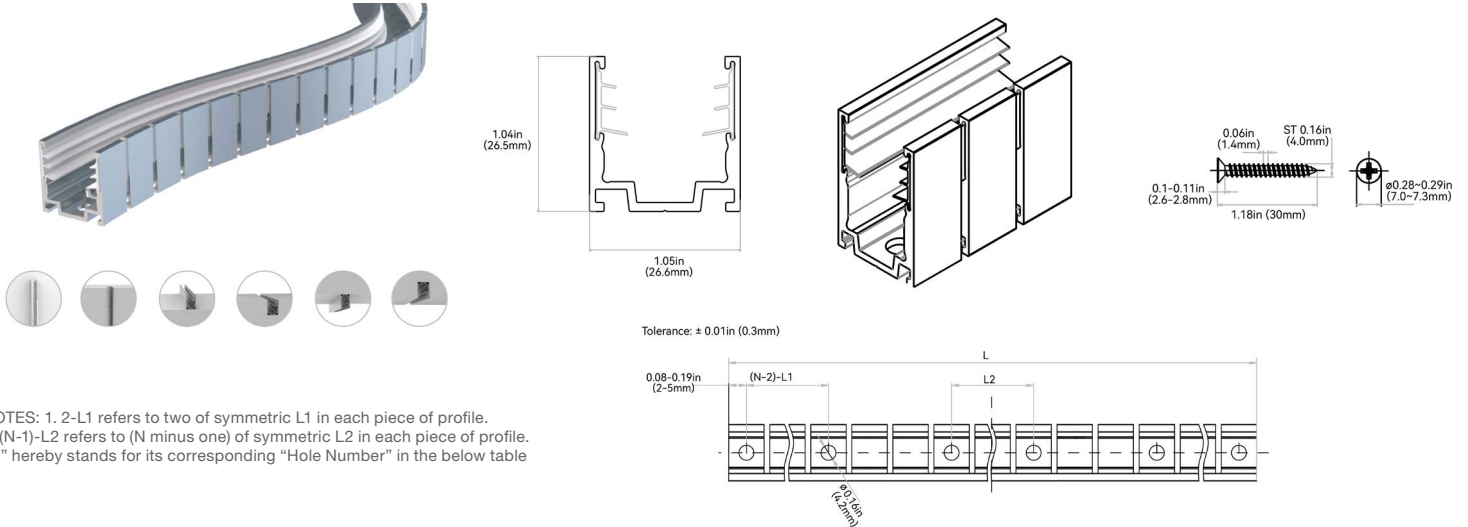
Indoor & Outdoor Rated Linear Flex Profile - Tunable White



F

ALUMINUM PROFILE - FLEXIBLE

It is an expanded design of the flexible aluminum profile, and caters for the continuously streamlined aesthetics of curve shape. The secondary precision cutting process, not only maintains the advantage of clamping force, but also enables the two-way side bending directions with super shape memory. Available for side bending only. Please refer to install manual for proper installation practices

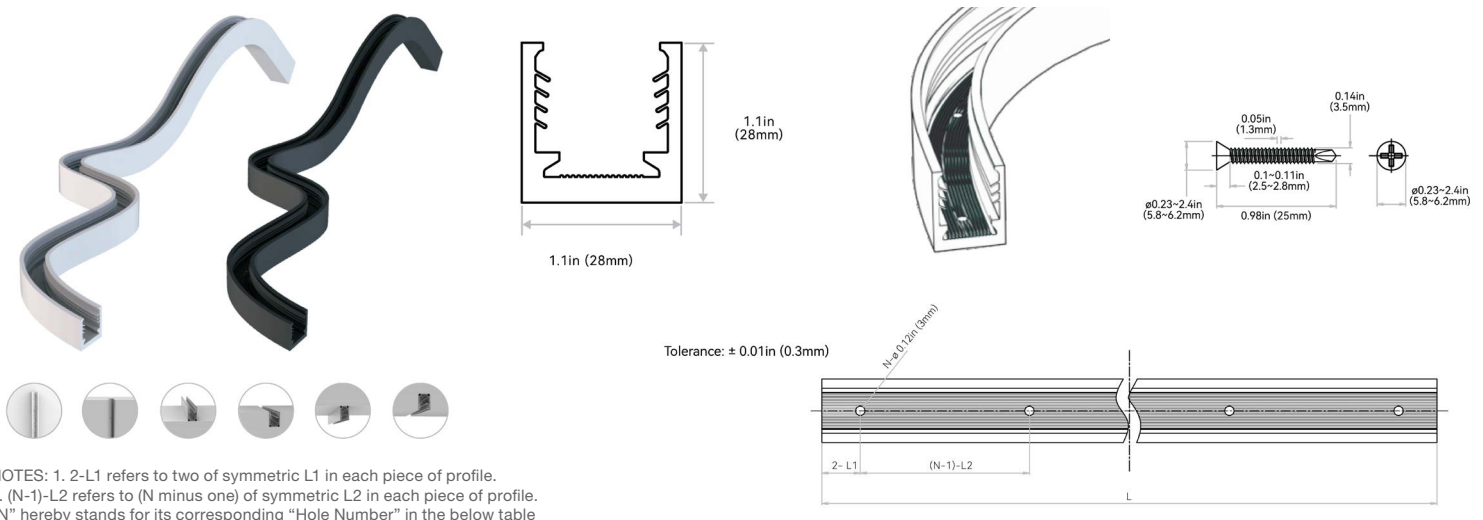


NOTES: 1. 2-L1 refers to two of symmetric L1 in each piece of profile.
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
"N" hereby stands for its corresponding "Hole Number" in the below table

ORDER CODE	LEGACY ORDER CODE	STANDARD LENGTH	L1	L2	SLOTTED HOLE	HOLE #
A5-3-G-1	CH22FAL0M5SE	19.68in (500mm)	39.37in (1000mm)	3.89in (98.8mm)	ø 0.17in (4.2mm)	6
A3-5-G-1	CH22FAL1MSE	39.37in (1000mm)	19.68in (500mm)	1.93in (48.9mm)	ø 0.17in (4.2mm)	10

SILICONE PROFILE - FLEXIBLE

An all-in-one mounting profile designed to unleash your creativity. This profile not only provides flexibility in installation methods, but also overcomes bending limitations by offering both top and side bending in a single profile. Fully encapsulated in UL-certified silicone, it excels in UV, weather, and corrosion resistance, making it suitable for underwater, high and low temperature environments. Elegant and square in appearance, it is available in black or white standard colors, or bespoke colors to blend in with the background. Supported by innovative serrated silicone fins, its clamping strength is strong enough to secure any installation method. Side and top bending. NOTE: Side bending will sit higher than the mounting profile, will not be a flush edge. 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: WHITE	LEGACY ORDER CODE: BLACK	STANDARD LENGTH	L1	L2	SLOTTED HOLE	HOLE #
C1-B-G-X-#	CH22FAN1C1SEW	CH22FAN1C1SEB	4.33in (110mm)	0.46in (11.6mm)	3.48in (88.4mm)	Ø 0.12in (3mm)	2
C1-C-G-X-#	CH22FAN0M2SEW	CH22FAN0M2SEB	7.87in (200mm)	0.46in (11.6mm)	3.48in (88.4mm)	Ø 0.12in (3mm)	3
C1-3-G-X-#	CH22FAN0M5SEW	CH22FAN0M5SEB	19.68in (500mm)	1.14in (29mm)	3.48in (88.4mm)	Ø 0.12in (3mm)	6
C1-5-G-X-#	CH22FAN01MSEW	CH22FAN01MSEB	39.37in (1000mm)	0.54in (13.8mm)	3.48in (88.4mm)	Ø 0.12in (3mm)	12



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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

G

MOUNTING ACCESSORIES

MOUNTING ACCESSORY TYPE	PROFILE
MA1 = Pivot Bracket	G = Wave XL
MA2 = Rotary Bracket	
MA3 = Side Bracket	
MA4 = Ceiling Clip	
MA6 = Suspended Wire Kit	
MA8 = Alignment Bracket - Aluminum Silicone Grip	

ALIGNMENT BRACKET - ALUMINUM SILICONE GRIP

Applicable to aluminum silicone grip

PIVOT BRACKET

Applicable to all mounting profiles.

Screw: PM 3*6

Screw: KA 3.5*25

VIVID WAVE XL: SILICONE - 24V

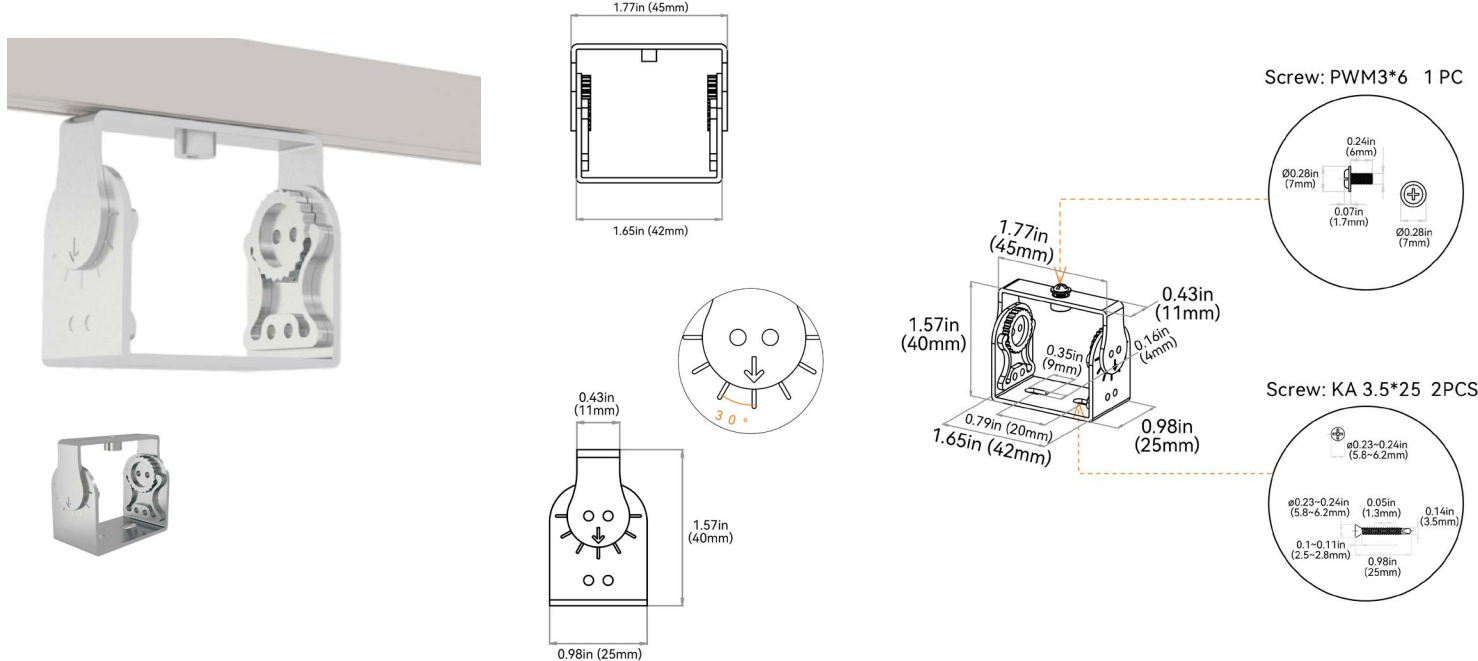
Indoor & Outdoor Rated Linear Flex Profile - Tunable White



G

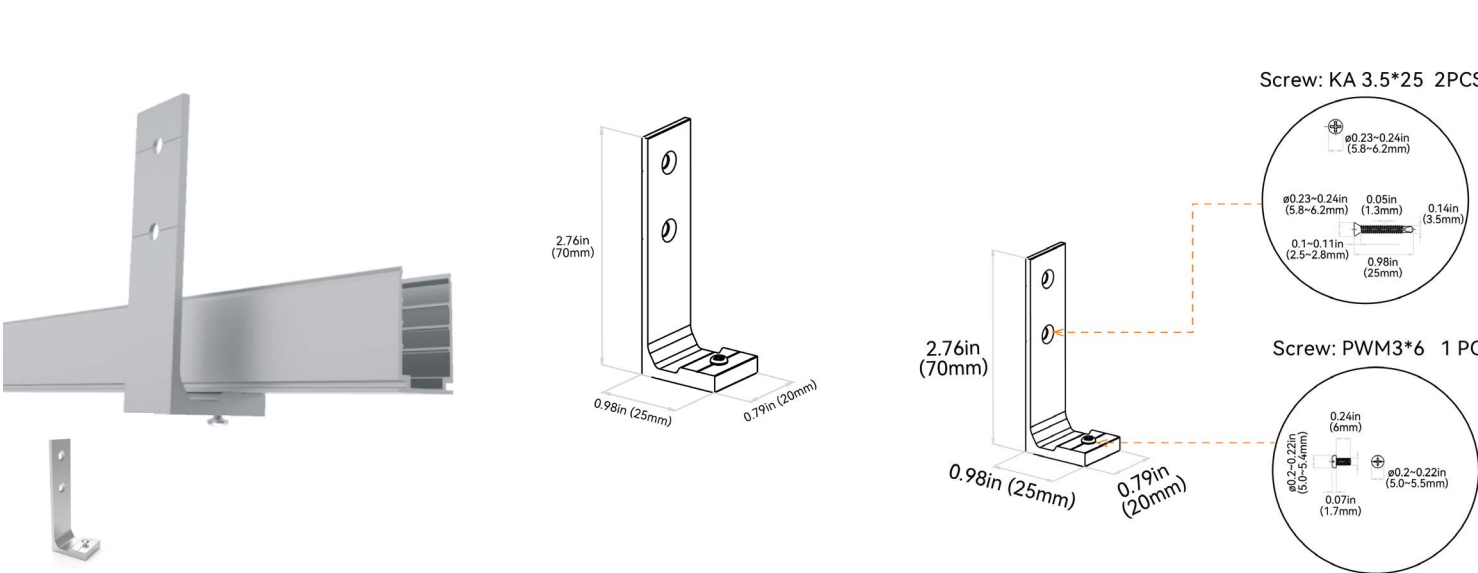
ROTARY BRACKET

Applicable to all mounting profiles.



SIDE MOUNTING BRACKET

Applicable to all mounting profiles.



VIVID WAVE XL: SILICONE - 24V

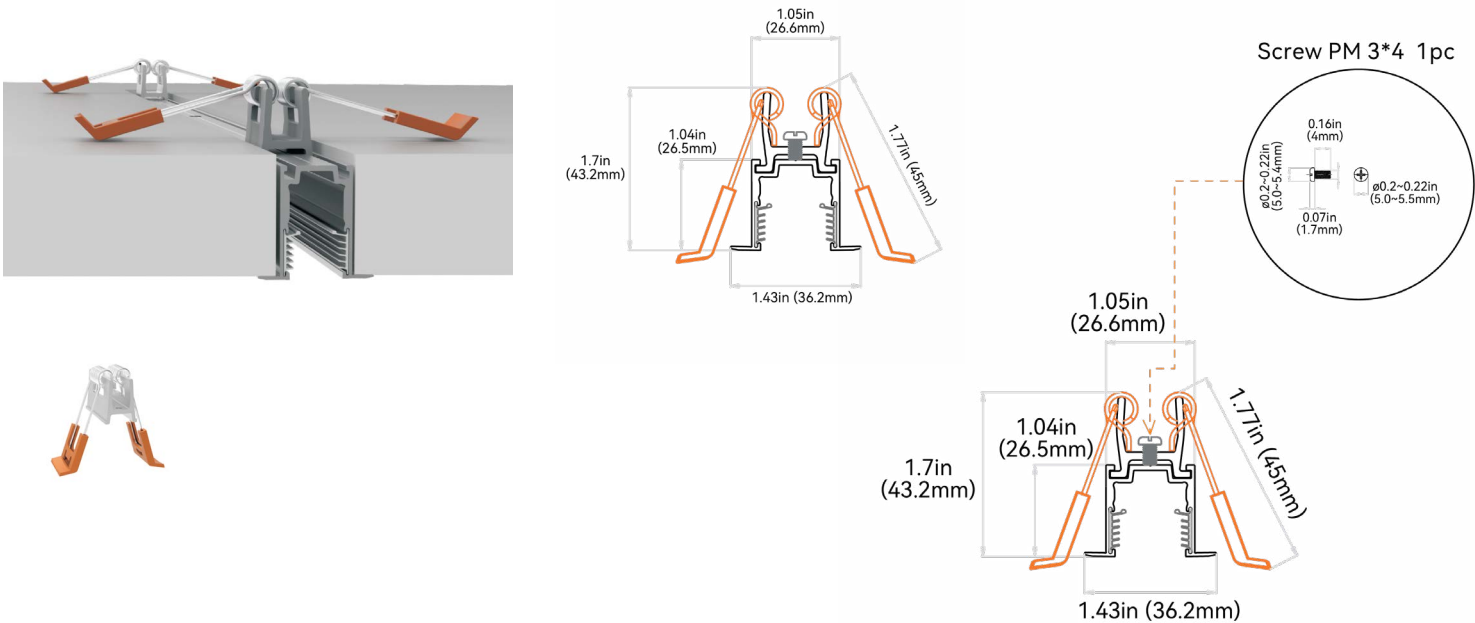
Indoor & Outdoor Rated Linear Flex Profile - Tunable White



G

CEILING CLIP BRACKET

Applicable to aluminum profile - recessed - silicone grip



SUSPENDED WIRE

Applicable to Aluminum Profile - Silicone Grip. 2 kits of stainless steel wires for 39.37in (1000mm) of profile & 3 kits of stainless steel wires for 78.74in (2000mm) of profile.

