

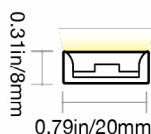


VIVID LIGHTSTRIP XL: SILICONE - 24V

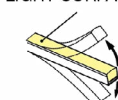
Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



PROFILE CAPABILITIES

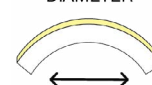


LIGHT SURFACE



TOP BENDING

MIN BENDING
DIAMETER



3.94IN (100MM)

CERTIFICATIONS & FEATURES*



TEMPERATURES

AMBIENT OPERATING TEMPERATURE:
≥2.43W/ft (8W/m): -40°F to 140°F (-40°C to 60°C)
3.66W/ft (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 6 to select input connector | V = Vivid | 1 = Silicone | J = LightStrip XL | 2 = Top | T = White + Transparent | 1 = Static | B = Blue C = Green E = Red H = 2200K J = 2700K L = 3000K M = 3500K N = 4000K Q = 5700K R = 6500K | 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 | | POWER SUPPLIES & CONTROLS: |
| D = 2.43W/ft (8W/m) Red E = 2.74W/ft (9W/m) Whites G = 3.66W/ft (12W/m) Blue Green Whites | 2C = 24V DC CC 2.43W/ft (8W/m) 3.66W/ft (12W/m) 3V = 24V DC CV 2.74W/ft (9W/m) | E = 0.66in (16.7mm) 2.74W/ft (9W/m) F = 3.28in (83.3mm) 2.43W/ft (8W/m) 3.66W/ft (12W/m) | See Page 6 to select output connector | See Page 16 to select mounting profile | | By Others By GLLS |
| | | | | See Page 22 to select accessory | | |

*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 LIGHTSTRIP XL: 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 silicone base with transparent lens cover provides a sleek look that reveals the internal LEDs, delivering crisp, vibrant light with maximum brightness and color accuracy—ideal for applications where LED visibility enhances visual impact.

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 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 Reference #: E347880-20130508

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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B

LED COLORS



FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS: 2.43W/FT (8W/M) + 3.66W/FT (12W/M)

| 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 | 25 LEDs/ft (84 LEDs/m) | 65.6ft (20m) / N/A | 131.2ft (40m) / N/A | N/A | 618-624nm | N/A | <3nm | 73lm/ft (240lm/m) | SS20IC082WERED24DV |
| GREEN | Epistar SMD LED Chip | 25 LEDs/ft (84 LEDs/m) | 49.2ft (15m) / N/A | 98.4ft (30m) / N/A | N/A | 522-530nm | N/A | <3nm | 305lm/ft (1000lm/m) | SS20IC122WEGRE24DV |
| BLUE | Epistar SMD LED Chip | 25 LEDs/ft (84 LEDs/m) | 49.2ft (15m) / N/A | 98.4ft (30m) / N/A | N/A | 468-474nm | N/A | <3nm | 61lm/ft (200lm/m) | SS20IC122WEBLU24DV |
| 2200K | Epistar SMD LED Chip + CRI80 | 25 LEDs/ft (84 LEDs/m) | 49.2ft (15m) / N/A | 98.4ft (30m) / N/A | 3 SDCM | 2238±66K | 82~87 | <2.3SDCM | 232lm/ft (760lm/m) | SS20IC122WE22K24DV |
| 2700K | Epistar SMD LED Chip + CRI80 | 25 LEDs/ft (84 LEDs/m) | 49.2ft (15m) / N/A | 98.4ft (30m) / N/A | 3 SDCM | 2605±85K | 82~87 | <2.3SDCM | 274lm/ft (900lm/m) | SS20IC122WE27K24DV |
| 3000K | Epistar SMD LED Chip + CRI80 | 25 LEDs/ft (84 LEDs/m) | 49.2ft (15m) / N/A | 98.4ft (30m) / N/A | 3 SDCM | 3045±105K | 82~87 | <2.3SDCM | 305lm/ft (1000lm/m) | SS20IC122WE30K24DV |
| 3500K | Epistar SMD LED Chip + CRI80 | 25 LEDs/ft (84 LEDs/m) | 49.2ft (15m) / N/A | 98.4ft (30m) / N/A | 3 SDCM | 3465±245K | 82~87 | <2.3SDCM | 305lm/ft (1000lm/m) | SS20IC122WE35K24DV |
| 4000K | Epistar SMD LED Chip + CRI80 | 25 LEDs/ft (84 LEDs/m) | 49.2ft (15m) / N/A | 98.4ft (30m) / N/A | 3 SDCM | 3985±150K | 82~87 | <2.3SDCM | 305lm/ft (1000lm/m) | SS20IC122WE40K24DV |
| 5700K | Epistar SMD LED Chip + CRI80 | 25 LEDs/ft (84 LEDs/m) | 49.2ft (15m) / N/A | 98.4ft (30m) / N/A | 3 SDCM | 5665±305K | 82~87 | <2.3SDCM | 305lm/ft (1000lm/m) | SS20IC122WE57K24DV |
| 6500K | Epistar SMD LED Chip + CRI80 | 25 LEDs/ft (84 LEDs/m) | 49.2ft (15m) / N/A | 98.4ft (30m) / N/A | 3 SDCM | 6532±340K | 82~87 | <2.3SDCM | 305lm/ft (1000lm/m) | SS20IC122WE65K24DV |

*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. ***Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs.



VIVID LIGHTSTRIP XL: SILICONE - 24V

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B

LED COLORS



FIXTURE SPECIFICATIONS & OPTICAL PARAMETERS: 2.74W/FT (9W/M)

| 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 | Epistar SMD LED Chip + CRI80 | 18 LEDs/ft (60 LEDs/m) | 65.6ft (20m) / N/A | 131.2ft (40m) / N/A | 3 SDCM | 2238±66K | 82~87 | <2.3SDCM | 183lm/ft (600lm/m) | SS20IC122WE22K24DL |
| 2700K | Epistar SMD LED Chip + CRI80 | 18 LEDs/ft (60 LEDs/m) | 65.6ft (20m) / N/A | 131.2ft (40m) / N/A | 3 SDCM | 2605±85K | 82~87 | <2.3SDCM | 198lm/ft (650lm/m) | SS20IC122WE27K24DL |
| 3000K | Epistar SMD LED Chip + CRI80 | 18 LEDs/ft (60 LEDs/m) | 65.6ft (20m) / N/A | 131.2ft (40m) / N/A | 3 SDCM | 3045±105K | 82~87 | <2.3SDCM | 198lm/ft (650lm/m) | SS20IC122WE30K24DL |
| 3500K | Epistar SMD LED Chip + CRI80 | 18 LEDs/ft (60 LEDs/m) | 65.6ft (20m) / N/A | 131.2ft (40m) / N/A | 3 SDCM | 3465±245K | 82~87 | <2.3SDCM | 198lm/ft (650lm/m) | SS20IC122WE35K24DL |
| 4000K | Epistar SMD LED Chip + CRI80 | 18 LEDs/ft (60 LEDs/m) | 65.6ft (20m) / N/A | 131.2ft (40m) / N/A | 3 SDCM | 3985±150K | 82~87 | <2.3SDCM | 213.4lm/ft (700lm/m) | SS20IC122WE40K24DL |
| 5700K | Epistar SMD LED Chip + CRI80 | 18 LEDs/ft (60 LEDs/m) | 65.6ft (20m) / N/A | 131.2ft (40m) / N/A | 3 SDCM | 5665±305K | 82~87 | <2.3SDCM | 213.4lm/ft (700lm/m) | SS20IC122WE57K24DL |
| 6500K | Epistar SMD LED Chip + CRI80 | 18 LEDs/ft (60 LEDs/m) | 65.6ft (20m) / N/A | 131.2ft (40m) / N/A | 3 SDCM | 6532±340K | 82~87 | <2.3SDCM | 213.4lm/ft (700lm/m) | SS20IC122WE65K24DL |

*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. ***Silicone products maintain ≤3 SDCM within a single production run and <5 SDCM between production runs.



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C

POWER & VOLTAGE

D = 2.43W/FT (8W/M) + G = 3.66W/ft (12W/m)

| COLOR | VOLTAGE + CIRCUIT TYPE* | POWER CONSUMPTION |
|-------|-------------------------|-------------------|
| RED | 24V DC CC | 2.43W/ft (8W/m) |
| GREEN | | |
| BLUE | | |
| 2200K | | |
| 2700K | | |
| 3000K | | 3.66W/ft (12W/m) |
| 3500K | | |
| 4000K | | |
| 5700K | | |
| 6500K | | |

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

E = 2.74W/FT (9W/M)

| COLOR | VOLTAGE + CIRCUIT TYPE | POWER CONSUMPTION |
|-------|------------------------|-------------------|
| 2200K | 24V DC CV | |
| 2700K | | |
| 3000K | | |
| 3500K | | 2.74W/ft (9W/m) |
| 4000K | | |
| 5700K | | |
| 6500K | | |

D

CUTTING INSTRUCTIONS

D = 2.43W/FT (8W/M) + G = 3.66W/ft (12W/m)

| COLOR | ORDER UNIT (CUTTING UNIT) |
|-------|---------------------------|
| RED | 3.28in (83.3mm) (7 LEDs) |
| GREEN | |
| BLUE | |
| 2200K | |
| 2700K | |
| 3000K | |
| 3500K | |
| 4000K | |
| 5700K | |
| 6500K | |

E = 2.74W/FT (9W/M)

| COLOR | ORDER UNIT (CUTTING UNIT) |
|-------|---------------------------|
| 2200K | 0.66in (16.7mm) (1 LED) |
| 2700K | |
| 3000K | |
| 3500K | |
| 4000K | |
| 5700K | |
| 6500K | |



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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 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

| SS | 20I | 1 | 00 | XX | SE | X | XX | XXX | X |
|--------------------------|---------------------|---------|----------------|--|----------------|---|--|--|--|
| PRODUCT TYPE | PROFILE | BENDING | LIGHT EMITTING | FUNCTIONALITY | CONNECTOR TYPE | FIXTURE END | EXIT TYPE | LENGTH | |
| SS = Factory Accessories | 20I = LightStrip XL | 1 = Top | 00 = 20I | 2W = Static 3W = Tunable White 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 |



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E

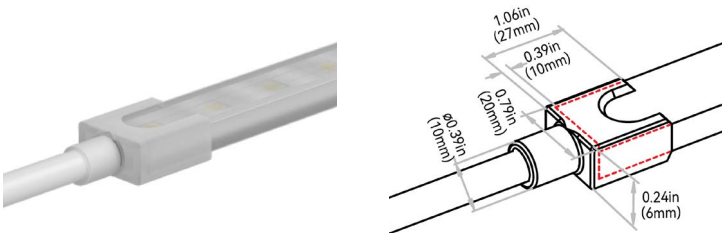
SILICONE SEAMLESS CONNECTOR



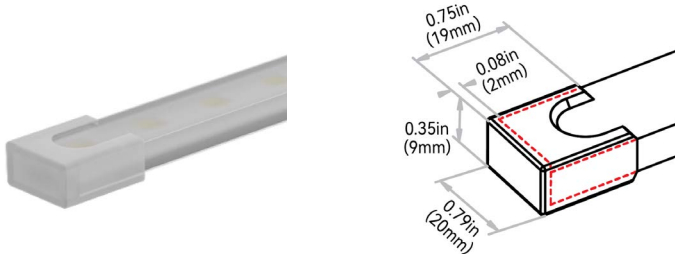
- NOTES:
- 1. Connector Tolerance ± 0.02 in (0.5mm)
 - 2. Cable diameter: Static, Tunable White, RGB & RGBW Silicone = 0.26in (6.5mm) & Direct DMX Silicone = 0.27in (6.8mm)
 - 3. Do not apply force to the feed cable
 - 4. Ensure Max. Cable Lengths are followed according to wire gage to avoid voltage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

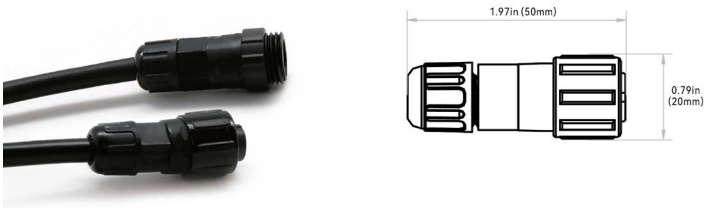
END EXIT: 2-A-#



END CAP: 2-I-8

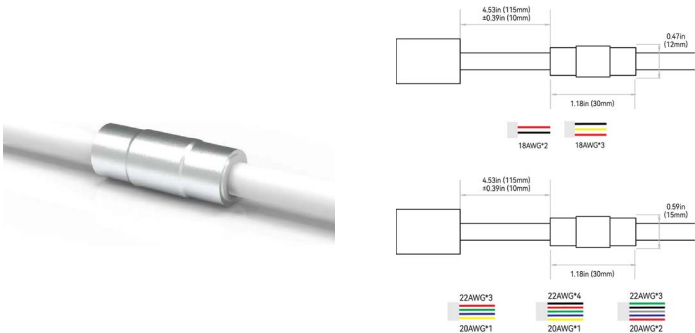


SCREW LOCK CONNECTOR ACCESSORY - IP67



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.



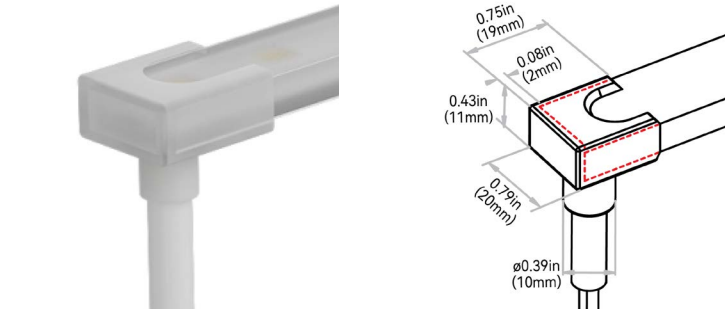
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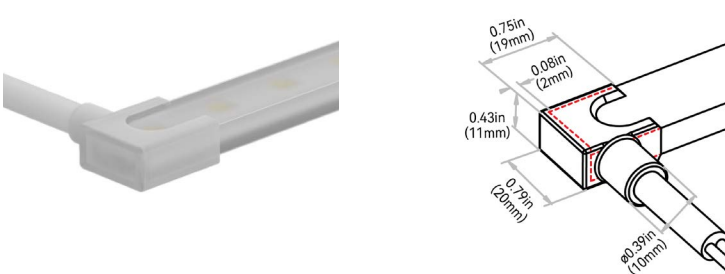


E

BOTTOM EXIT: 2-B-#



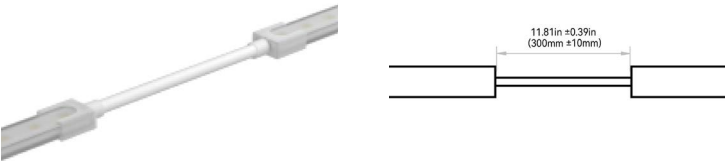
SIDE LEFT EXIT: 2-C-#



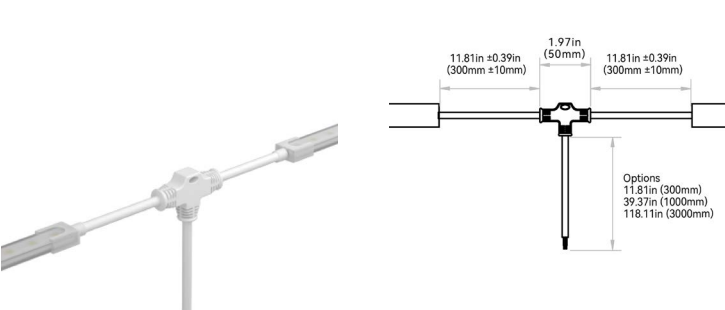
SIDE RIGHT EXIT: 2-D-#



END JUMPER: 2-E-1



POWER T-FEED: 2-H-#



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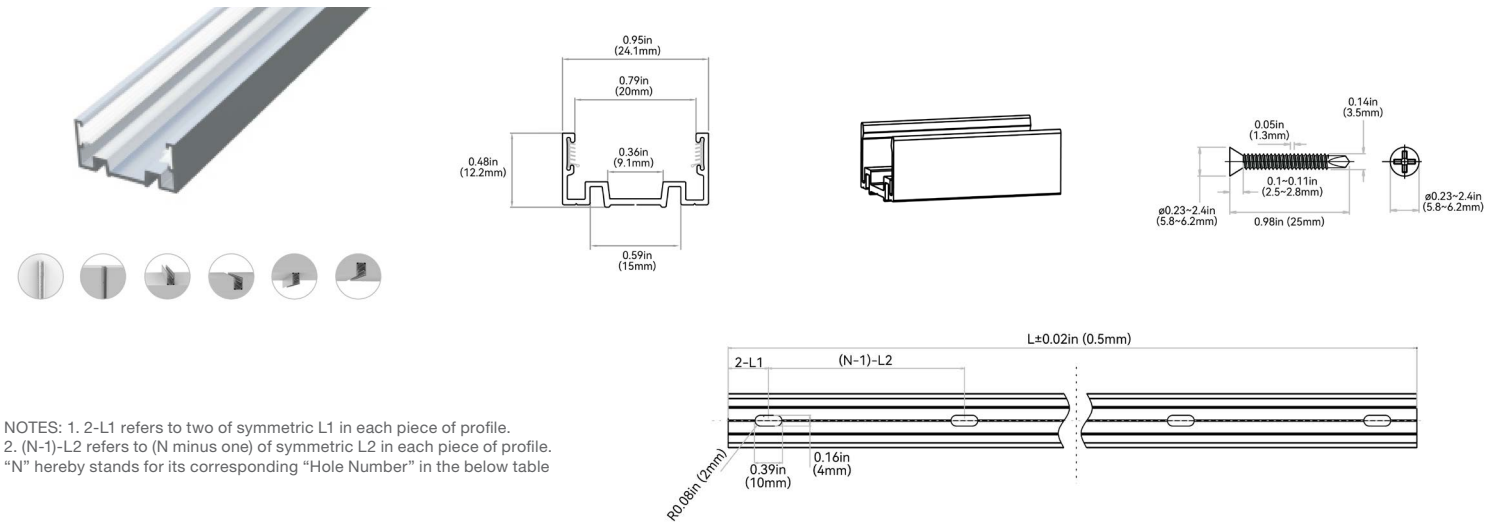
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MOUNTING PROFILES

| MOUNTING PROFILE TYPE | STANDARD LENGTH | PROFILE | COLOR |
|-----------------------------|---|-------------------|--------------|
| A4 = Aluminum Silicone Grip | 3 = 19.68in (500mm) 5 = 39.37in (1000mm) 6 = 78.74in (2000mm) | J = LightStrip XL | 1 = Standard |

ALUMINUM PROFILE - SILICONE GRIP

High-quality 6063 aluminum with thin-wall, light-weight design. Includes a serated 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 CODE | STANDARD LENGTH | L1 | L2 | SLOTTED HOLE | HOLE # |
|------------|--------------|------------------|----------------|----------------|----------------------|--------|
| A4-3-J-1 | CH20RAL0M5SE | 19.68in (500mm) | 1.97in (50mm) | 7.87in (200mm) | 0.16*0.39in (4*10mm) | 3 |
| A4-5-J-1 | CH20RAL01MSE | 39.37in (1000mm) | 3.93in (100mm) | 7.87in (200mm) | 0.16*0.39in (4*10mm) | 5 |
| A4-6-J-1 | CH20RAL02MSE | 78.74in (2000mm) | 3.93in (100mm) | 7.87in (200mm) | 0.16*0.39in (4*10mm) | 10 |



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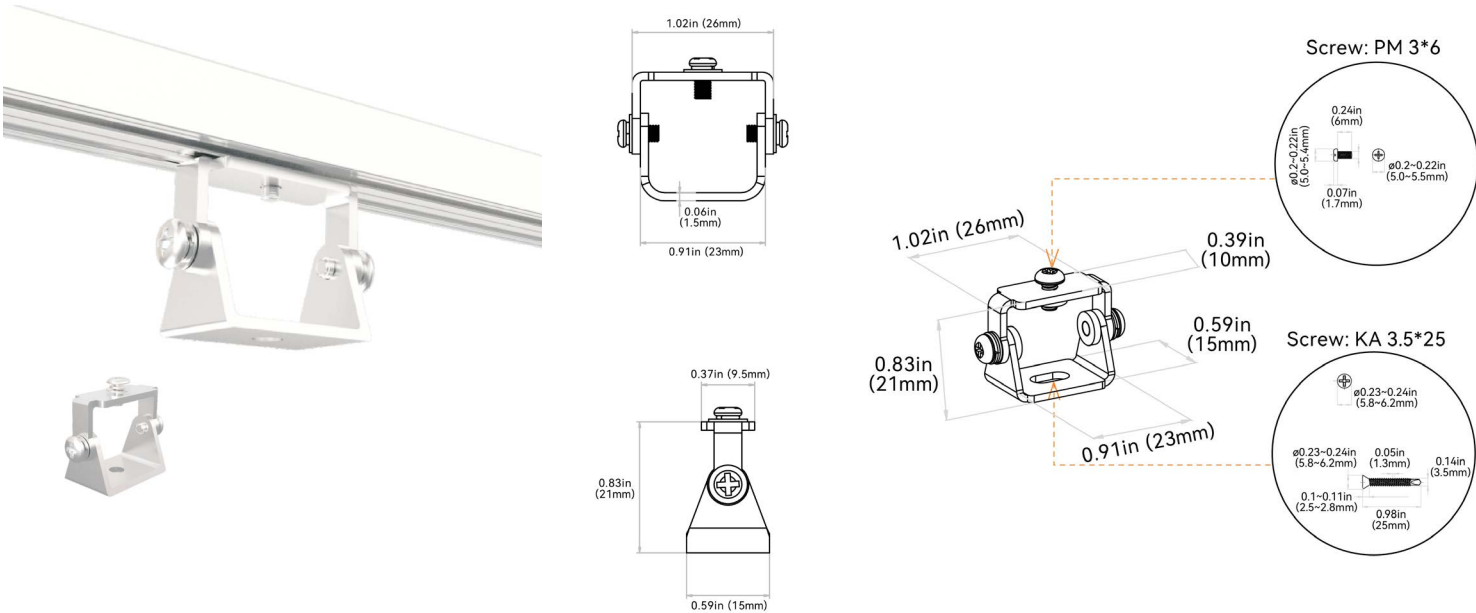
G

MOUNTING ACCESSORIES

| MOUNTING ACCESSORY TYPE | PROFILE |
|-------------------------|-------------------|
| MA1 = Pivot Bracket | J = LightStrip XL |
| MA2 = Rotary Bracket | |
| MA3 = Side Bracket | |

PIVOT BRACKET

Applicable to all mounting profiles.



VIVID LIGHTSTRIP XL: SILICONE - 24V

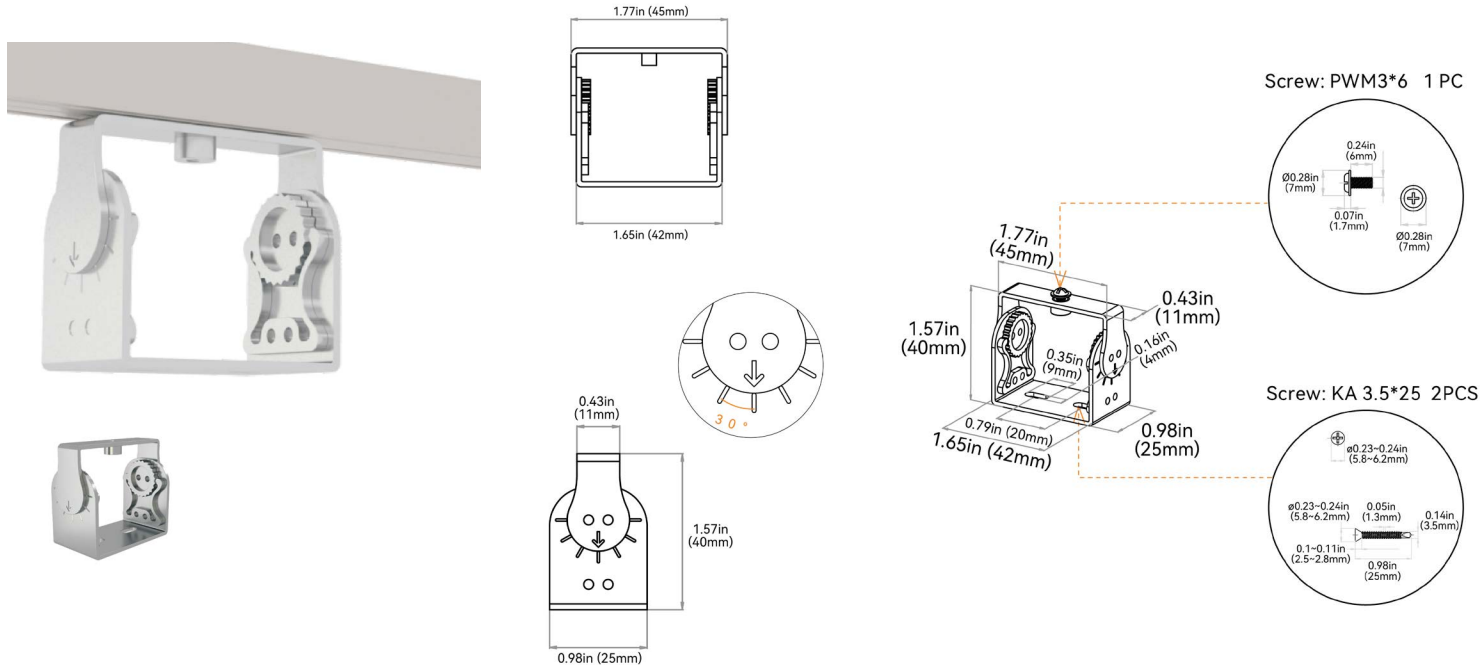
Indoor & Outdoor Rated Linear Flex Profile - Static Whites & Colors



G

ROTARY BRACKET

Applicable to all mounting profiles.



SIDE MOUNTING BRACKET

Applicable to all mounting profiles.

