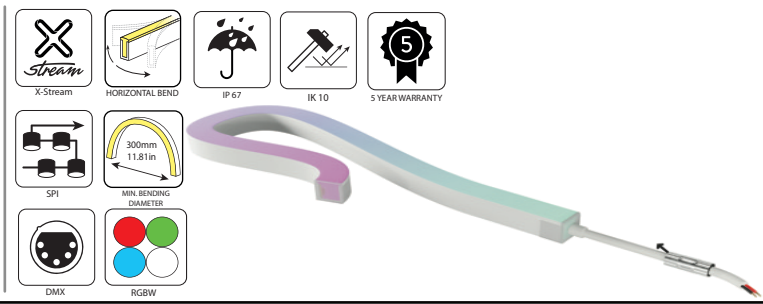


FXN 2222 | FLEXIBLE NEON

The FXN 2222 is a high-performance SPI pixel lighting solution, delivering individually addressable segments for dynamic colour effects and animations. Designed for architectural and commercial applications, it offers precise control with built-in UCS2903 or UCS2904 chips in both RGB and RGBW.

Constructed from silicone, the FXN 2222 is engineered for reliability with IP67 water resistance and IK10 impact protection.

Its UV-Resistant design operates in extreme temperatures from -40°C to 45°C, making it ideal for demanding environments and complex lighting installations.



PART NUMBER CONFIGURATOR

| Prefix | Model | LED Colour | White CCT | Control | Bending Direction | Power | Voltage | LEDs Qty/m | Min. Cutting Length (mm) |
|--------|-------|--|--|------------------------------------|-------------------------|--|--------------|---|---|
| FXN | 2222 | RGB RGBW W – White (22K-57K) DW – Dynamic White (22K≈57K) | 22K – 2200K 27K – 2700K 30K – 3000K 35K – 3500K 40K – 4000K 57K – 5700K | D – DMX S – SPI X – X-Stream | HB – Horizontal Bending | 12 – 12W 15 – 15W 16.5 – 16.5W 22 – 22W | 24 – 24VC DC | 72 – 72LEDs/m 84 – 84LEDs/m 280 – 280LEDs/m | 83.3 – 83.3mm 100 – 100mm 166.7 – 166.7mm |

SPECIFICATIONS

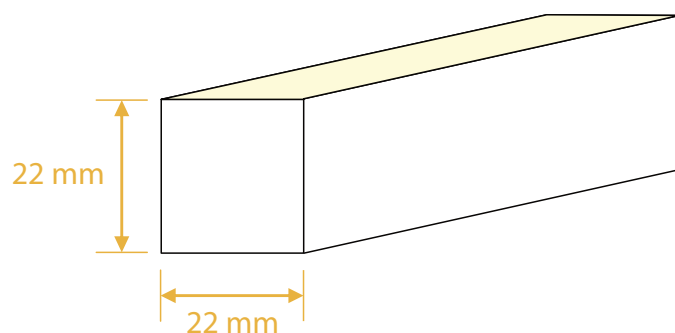
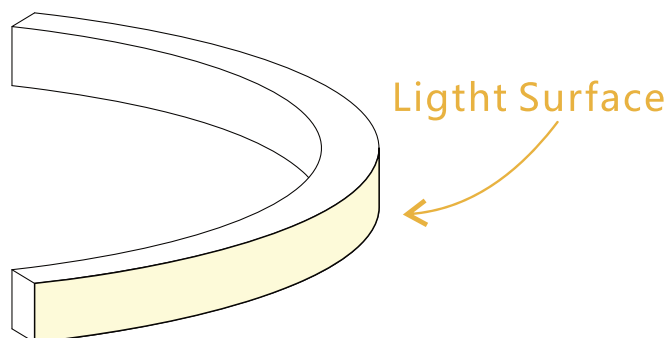
Example: FXN – 2222 – RGBW – 22K – X – HB – 15 – 24 – 280 – 100

| | | |
|---------------------------------|---|--|
| Electrical | Power Consumption Operating Voltage Installation Temperature Operating Temperature Storage Temperature Current (mA/m) | SPI – 16.5W/m (RGB), 22W/m (RGBW), DMX – 12W/m (DW, RGB), 15W/m (W, RGBW), 15W/m (X-Stream) 24V DC -40°C TO 50°C - (-40°F TO 122°F) -40°C TO 45°C - (-40°F TO 113°F) -40°C TO 60°C - (-40°F TO 140°F) SPI – 687.5 (RGB), 916.7 (RGBW), DMX – 500 (DW, RGB), 625.0 (W, RGBW), 625.0 (X-Stream) |
| Physical | Dimensions Bending Housing / Lens Weight/m IK Rating IP Rating LEDs Qty/unit LEDs Qty/m Min. Cutting Length Min. Bending Diameter Unit/m (Pixel Qty/m) Connectors Mounting Profiles Mounting Brackets Data Maximum Run Length | L: 1000mm – H: 22mm – W: 22mm Horizontal Bending Silicone 550g IK10 IP67 SPI – 7LEDs/unit (RGBW, RGB), DMX – 12LEDs/unit (RGBW, RGB, DW, W), 28 (4*7)LEDs/unit (X-Stream) SPI – 84LEDs/m (RGBW, RGB), DMX – 72LEDs/m (RGBW, RGB), 84LEDs/m (DW, W), 280LEDs/m (X-Stream) SPI – 83.3mm (RGBW, RGB), DMX – 166.7mm (RGBW, RGB, DW, W), 100mm (X-Stream) 300mm SPI – 12pxl/m (RGBW, RGB), DMX – 6pxl/m (RGBW, RGB, DW, W), 10pxl/m (X-Stream) Silicone Injection-moulded Connector Serrated Aluminium Profile, Flange Serrated Aluminium Profile, Bendable Serrated Aluminium Profile Joining Bracket 64m @ 12pixels/m, 76.8m @ 10pixels/m, 128m @ 6pixels/m (6 universes & 4 channels) |
| Optical | Beam Angle Colour Range LED Type LED Distance Total Lumens | 120° RGBW, RGB, White (2200K, 2700K, 3000K, 3500K, 4000K, 5700K), Dynamic White (22K-57K) EPISTAR SMD LED 16.67mm <800lm/m |
| Diming & Control | Control Protocols Dimming Resolution | X-Stream: SPI protocol with data redundancy Others – SPI, DMX |
| Fixture Rating & Certifications | UL LISTED, CE RoHs COMPLIANT |  |
| Limited Warranty | 5 Years | Extendable Warranty Available |

FXN 2222 | FLEXIBLE NEON

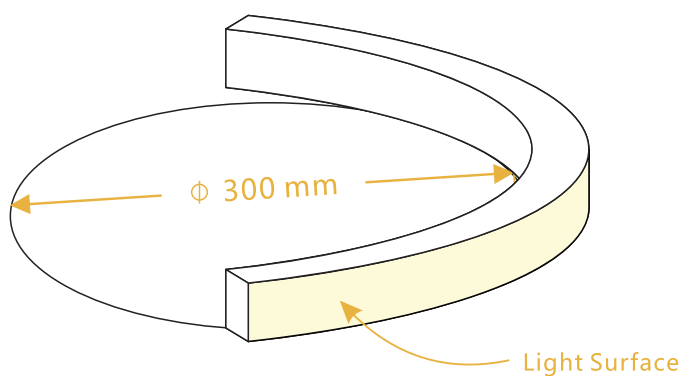
DIMENSIONS & BENDING

Dimensions of Light

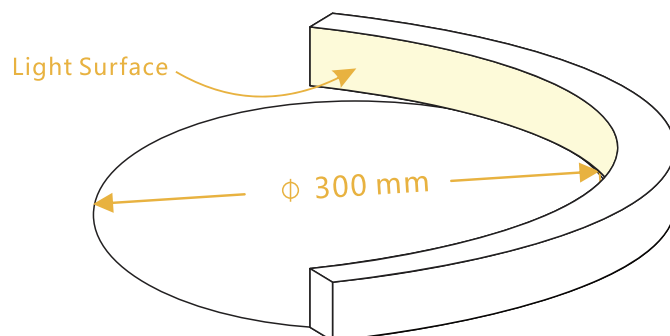


Note: Unless otherwise stated, the tolerance of the light is $\pm 0.3\text{mm}$.

Minimum Bending Diameter



The light can only be bent laterally
(opposite bend along to light surface).



Do not bend smaller than allowed minimum bend diameter.

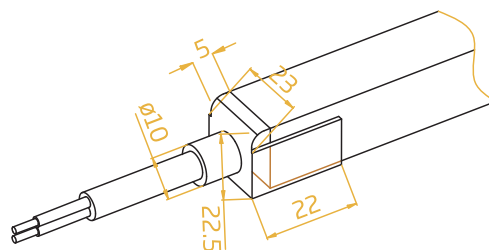
FXN 2222 | FLEXIBLE NEON CONNECTORS

Silicone Injection-moulded Connector IP68

Silicone Injection-moulded Front Connector-End



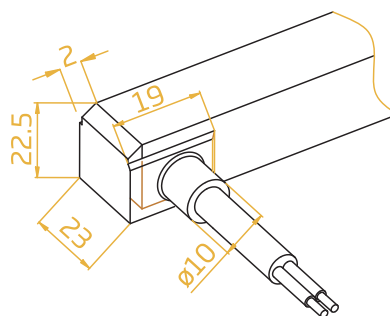
FXN - 2222 - C - SIM - FE



Silicone Injection-moulded Front Connector-Side



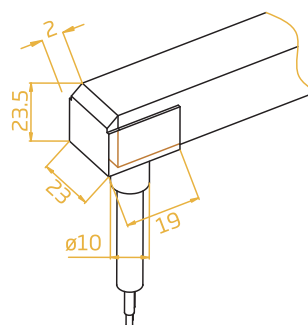
FXN - 2222 - C - SIM - FS



Silicone Injection-moulded Front Connector -Bottom



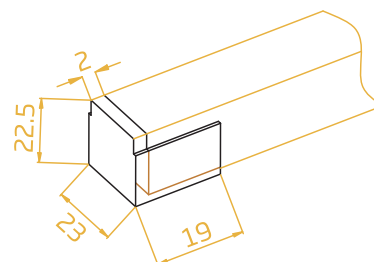
FXN - 2222 - C - SIM - FB



Silicone Injection-moulded End Cap



FXN - 2222 - C - SIM - EC



FXN 2222 | FLEXIBLE NEON CONNECTORS

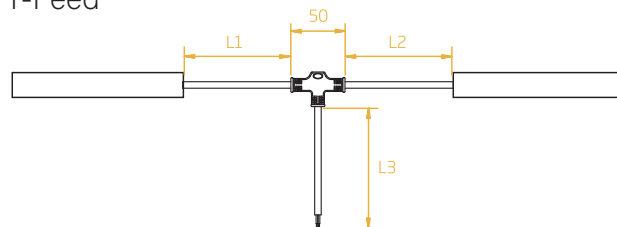
Silicone Injection-moulded Connector IP68

Silicone Injection-moulded Middle Connector & Power T-Feed



FXN – 2222 – C – SIM – TF

L1 and L2 available in 300mm.
L3 available in 300mm/1000mm/3000mm.



Note:

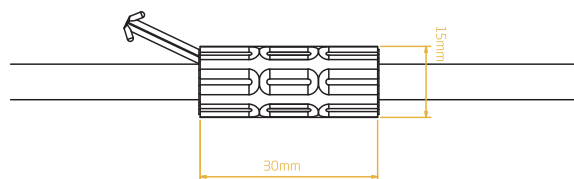
1. Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$;
2. To avoid damage from excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

Anti-wicking Ferrule



The anti-wicking ferrule is located at 115mm ($\pm 10\text{mm}$ tolerance) from the connector on the cable.

For protection against water ingress from inside of cable wire and hence damage the light.



Note:

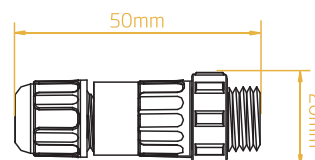
1. Unless otherwise stated, the tolerance is $\pm 0.5\text{mm}$.
2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.

Male & Female Connector



For plug and play cable junction, IP67.

FXN – 2222 – MC / FXN – 2222 – FC



Note:

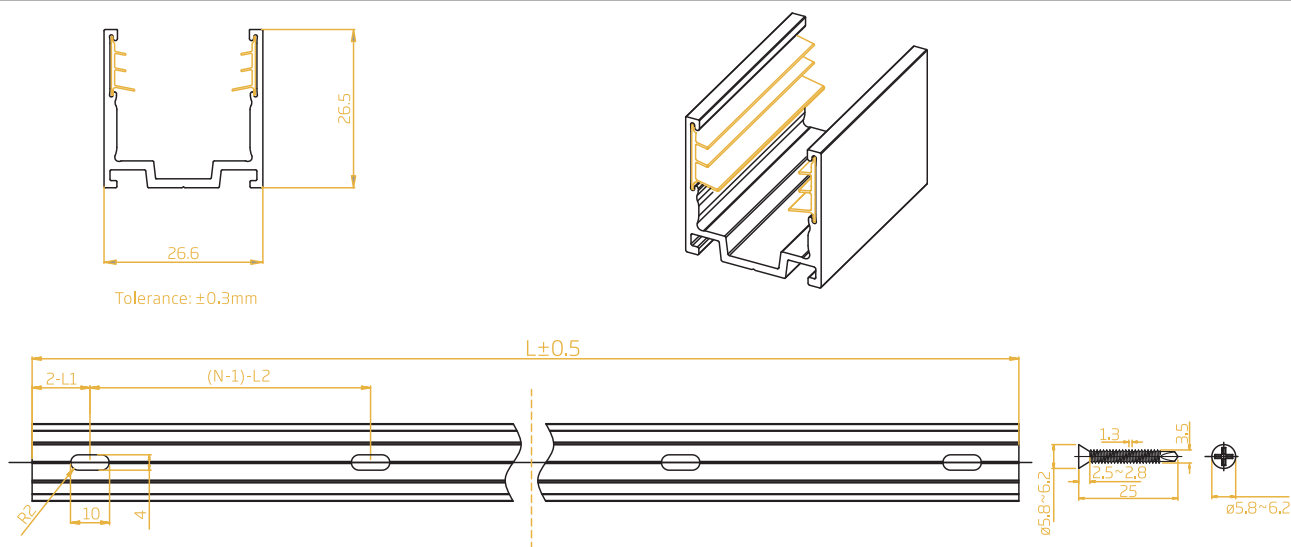
Unless otherwise stated, the tolerance is $\pm 2\text{mm}$.

FXN 2222 | FLEXIBLE NEON MOUNTING PROFILES

Serrated Aluminium Profile



Dimensions: mm



Note:

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.

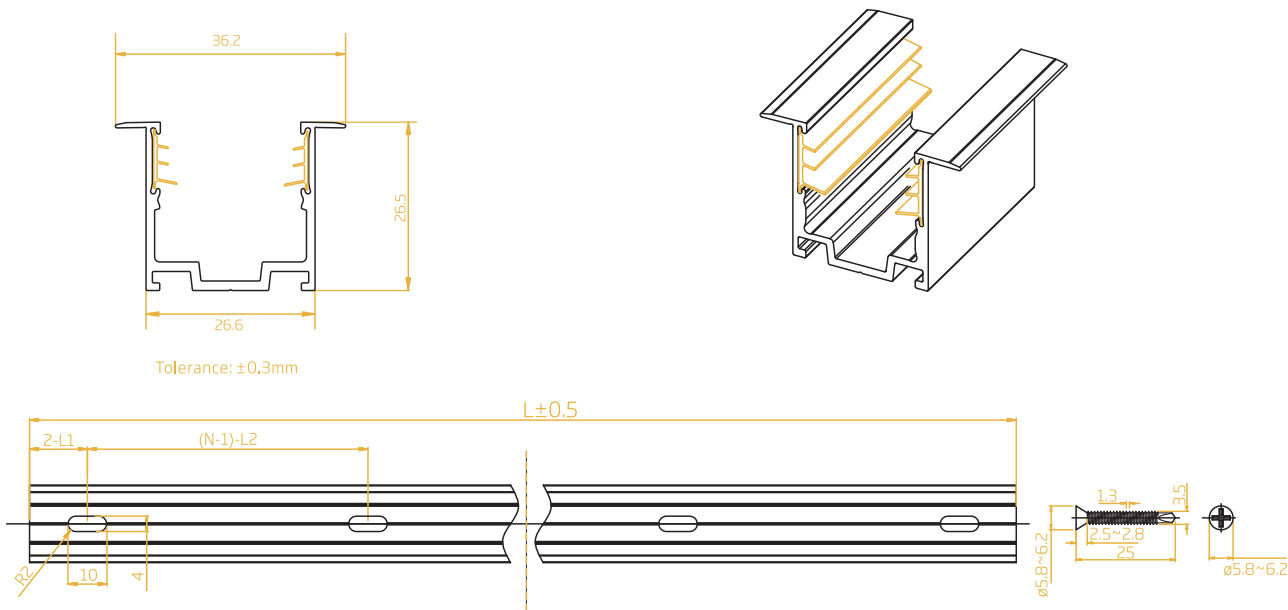
| Item Code | Standard Length | L1 | L2 | Slotted Hole | Hole Number |
|----------------------------------|-----------------|--------------|--------------|--------------------|-------------|
| FXN - 2222 - SA/PL - 20MM - AL | 20mm/0.79in | 10mm/0.39in | / | 4*10mm/0.16*0.39in | 1 |
| FXN - 2222 - SA/PL - 500MM - AL | 500mm/19.68in | 50mm/1.97in | 200mm/7.87in | 4*10mm/0.16*0.39in | 3 |
| FXN - 2222 - SA/PL - 1000MM - AL | 1000mm/39.37in | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 5 |
| FXN - 2222 - SA/PL - 2000MM - AL | 2000mm/78.74in | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 10 |

FXN 2222 | FLEXIBLE NEON
MOUNTING PROFILES

Flange Serrated Aluminium Profile



Dimensions: mm

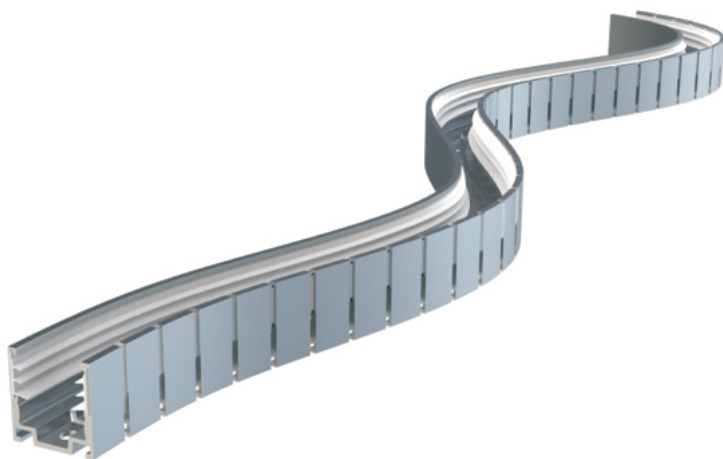


Note:
1. 2-L1 refers to two of symmetric L1 in each piece of profile.
2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile
"N" hereby stands for its corresponding "Hole Number" in the below table

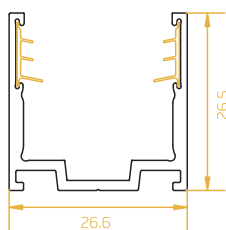
| Item Code | Standard Length | L1 | L2 | Slotted Hole | Hole Number |
|-----------------------------------|-----------------|--------------|--------------|--------------------|-------------|
| FXN - 2222 - FSA/PL - 20MM - AL | 20mm/0.79in | 10mm/0.39in | / | 4*10mm/0.16*0.39in | 1 |
| FXN - 2222 - FSA/PL - 500MM - AL | 500mm/19.68in | 50mm/1.97in | 200mm/7.87in | 4*10mm/0.16*0.39in | 3 |
| FXN - 2222 - FSA/PL - 1000MM - AL | 1000mm/39.37in | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 5 |
| FXN - 2222 - FSA/PL - 2000MM - AL | 2000mm/78.74in | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 10 |

FXN 2222 | FLEXIBLE NEON MOUNTING PROFILES

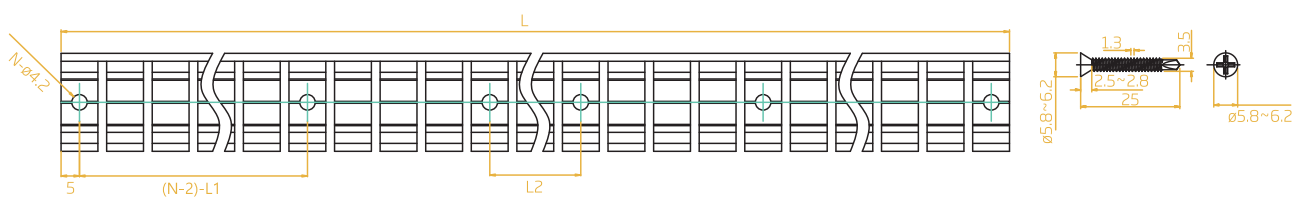
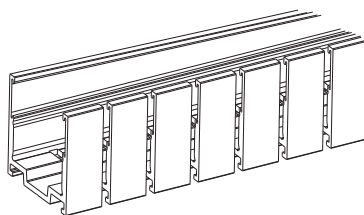
Bendable Serrated Aluminium Profile



Dimensions: mm



Tolerance: $\pm 0,3\text{mm}$



Note:

- 2-5 refers to two of symmetric 5mm in each piece of profile.
 - (N-2)-L1 refers to (N minus two) of symmetric L1 in each piece of profile.
- "N" hereby stands for its corresponding "Hole Number" in the below table

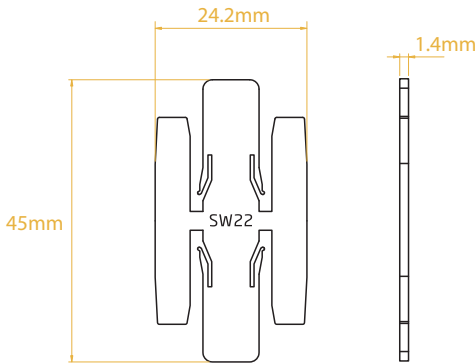
| Item Code | Standard Length | L1 | L2 | Screw | Hole Number |
|-----------------------------------|-----------------|----------------|---------------|--------------|-------------|
| FXN - 2222 - BSA/PL - 500MM - AL | 500mm/19.68in | 1000mm/39.37in | 98.8mm/3.89in | 4.2mm/0.17in | 6 |
| FXN - 2222 - BSA/PL - 1000MM - AL | 1000mm/39.37in | 500mm/19.68in | 48.9mm/1.93in | 4.2mm/0.17in | 10 |

FXN 2222

FLEXIBLE NEON

BRACKETS

Joining Bracket



Note: Applicable to serrated aluminium profile.

Item Code: FXN – 2222 – B – J

