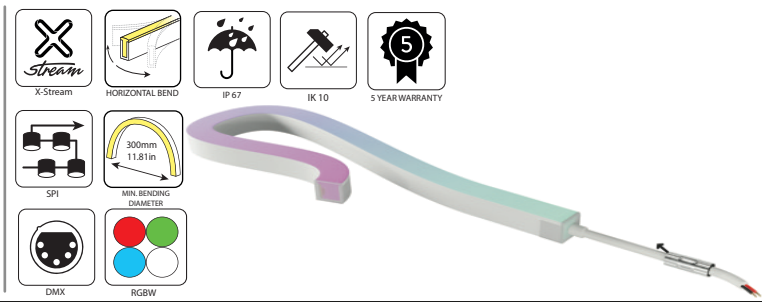


FXN 2222 | FLEXIBLE NEON

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

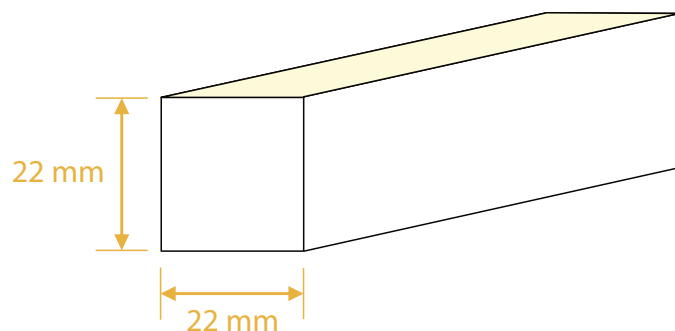
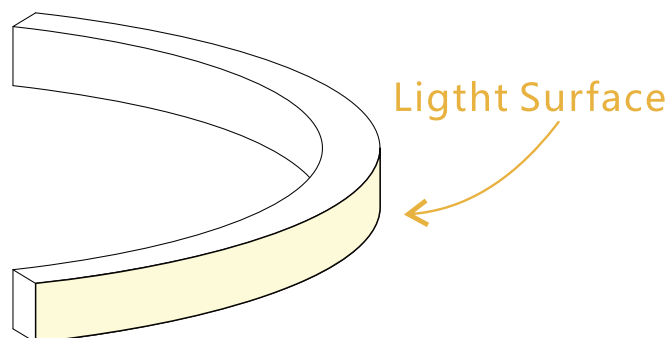
Example: FXN – 2222 – RGBW – 22K – X – HB – 15 – 24 – 280 – 100

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

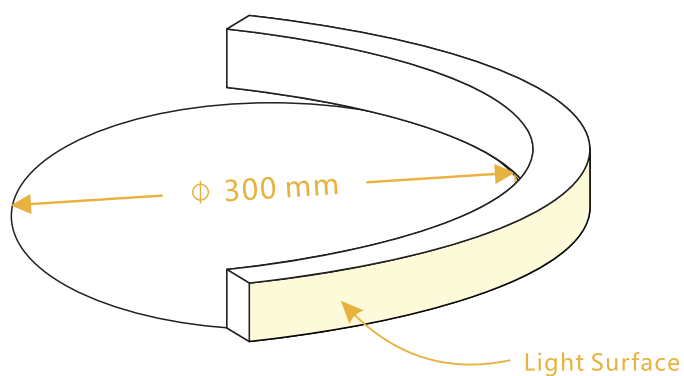
DIMENSIONS & BENDING

Dimensions of Light

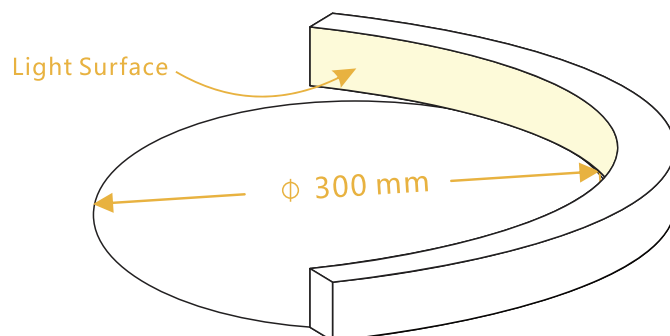


Note: Unless otherwise stated, the tolerance of the light is $\pm 0.3\text{mm}$.

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.

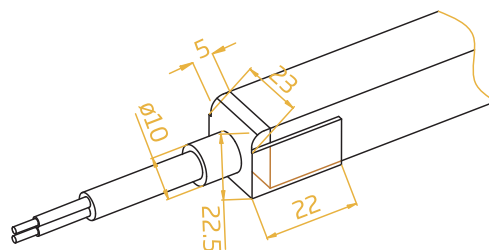
FXN 2222 | FLEXIBLE NEON CONNECTORS

Silicone Injection-moulded Connector IP68

Silicone Injection-moulded Front Connector-End



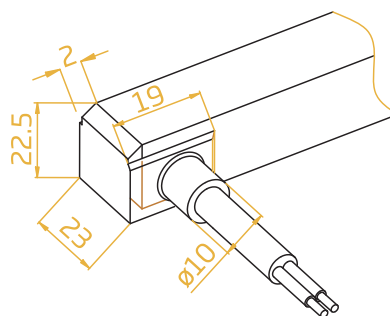
FXN - 2222 - C - SIM - FE



Silicone Injection-moulded Front Connector-Side



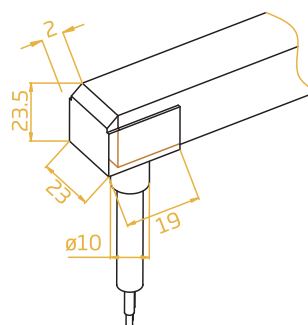
FXN - 2222 - C - SIM - FS



Silicone Injection-moulded Front Connector -Bottom



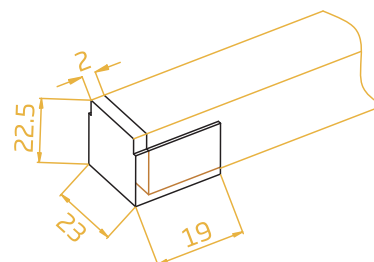
FXN - 2222 - C - SIM - FB



Silicone Injection-moulded End Cap



FXN - 2222 - C - SIM - EC



FXN 2222 | FLEXIBLE NEON CONNECTORS

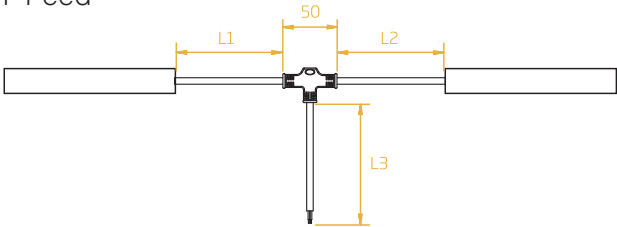
Silicone Injection-moulded Connector IP68

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.

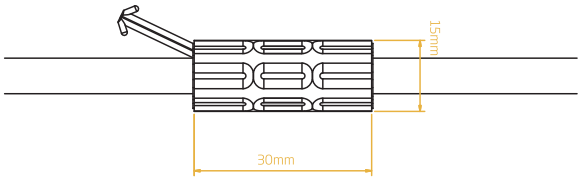


- Note:
1. Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$;
 2. To avoid damage from excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

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.



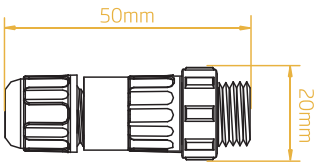
- Note:
1. Unless otherwise stated, the tolerance is $\pm 0.5\text{mm}$.
 2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.

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

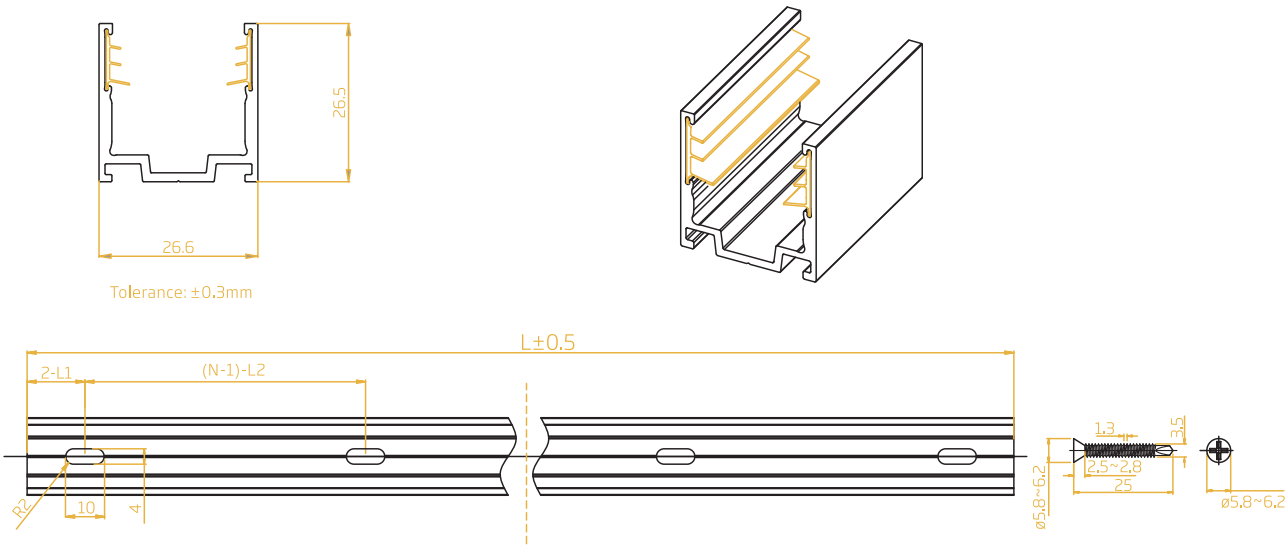
FLEXIBLE NEON

MOUNTING PROFILES

Serrated Aluminium Profile



Dimensions: mm



Note:

- 2-L1 refers to two of symmetric L1 in each piece of profile.
- (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

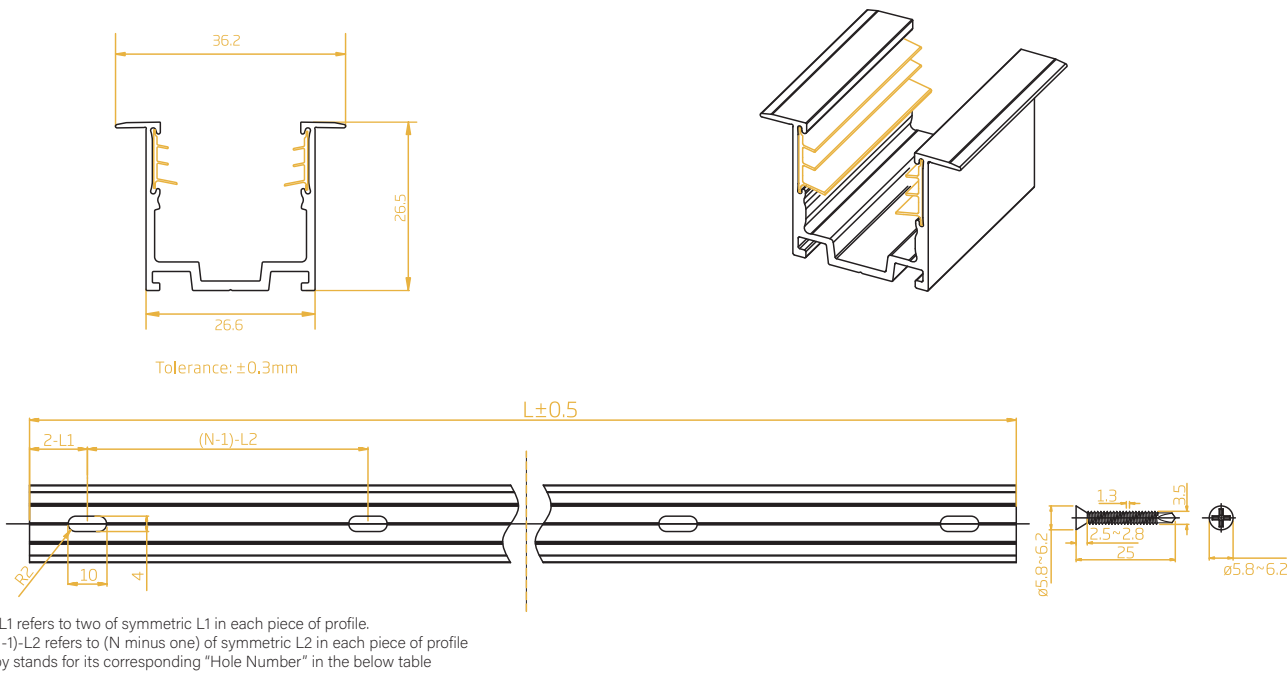
FLEXIBLE NEON

MOUNTING PROFILES

Flange Serrated Aluminium Profile



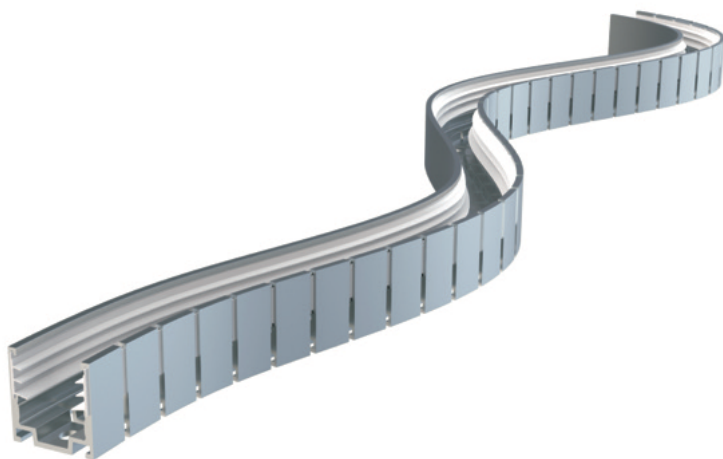
Dimensions: mm



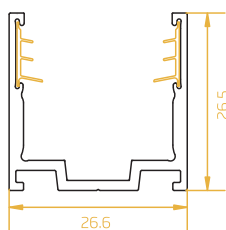
Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN - 2222 - FSA/PL - 20MM - AL	20mm/0.79in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
FXN - 2222 - FSA/PL - 500MM - AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FXN - 2222 - FSA/PL - 1000MM - AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in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

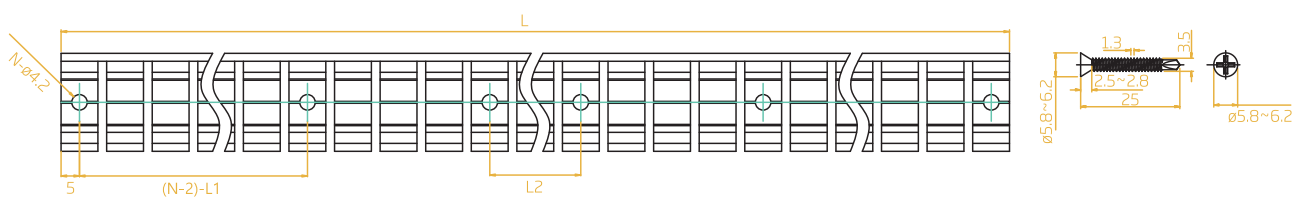
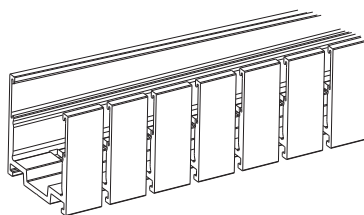
Bendable Serrated Aluminium Profile



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

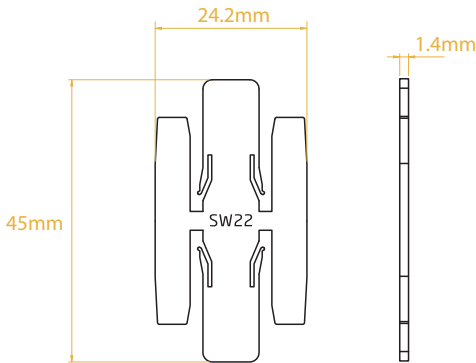
Item Code	Standard Length	L1	L2	Screw	Hole Number
FXN - 2222 - BSA/PL - 500MM - AL	500mm/19.68in	1000mm/39.37in	98.8mm/3.89in	4.2mm/0.17in	6
FXN - 2222 - BSA/PL - 1000MM - AL	1000mm/39.37in	500mm/19.68in	48.9mm/1.93in	4.2mm/0.17in	10

FXN 2222

FLEXIBLE NEON

BRACKETS

Joining Bracket



Note: Applicable to serrated aluminium profile.

Item Code: FXN – 2222 – B – J

