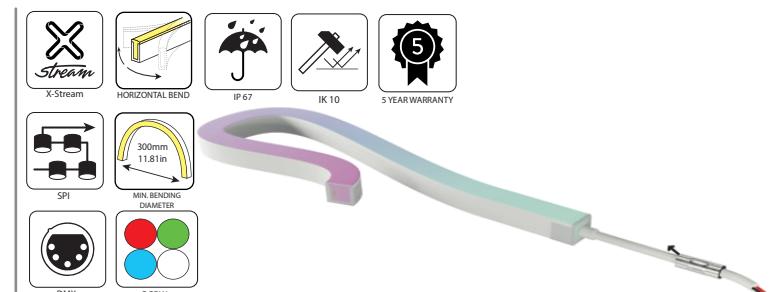


## FXN 2222 | FLEXIBLE NEON

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 – 24V DC	72 – 72LEDs/m 84 – 84LEDs/m 280 – 280LEDs/m	83.3 – 83.3mm 100 – 100mm 166.7 – 166.7mm

## SPECIFICATIONS

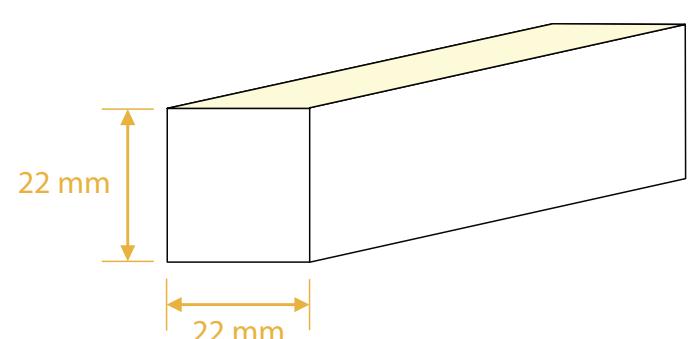
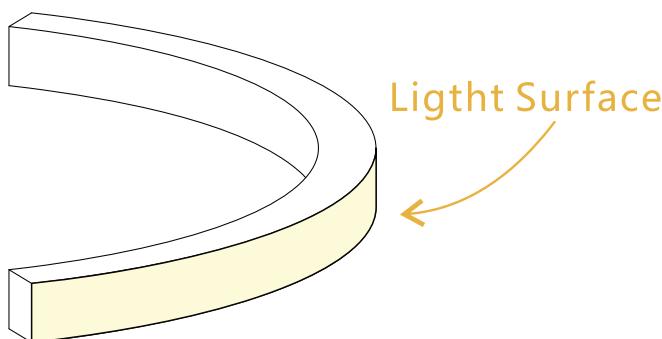
Example: FXN – 2222 – RGBW – 22K – X – HB – 15 – 24 – 280 – 100

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

## FXN 2222|FLEXIBLE NEON

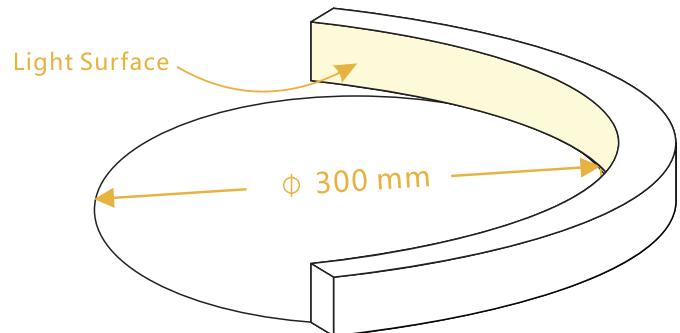
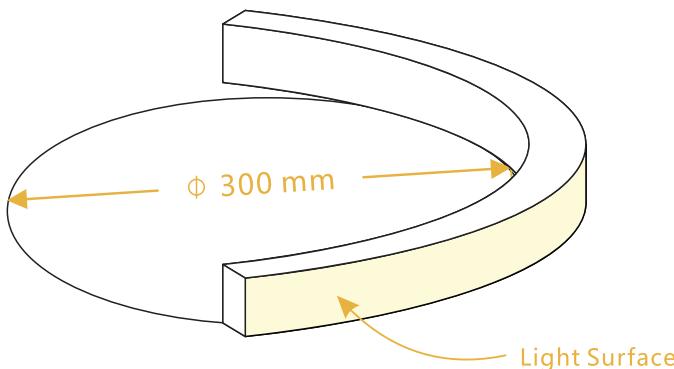
## DIMENSIONS &amp; BENDING

## 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.

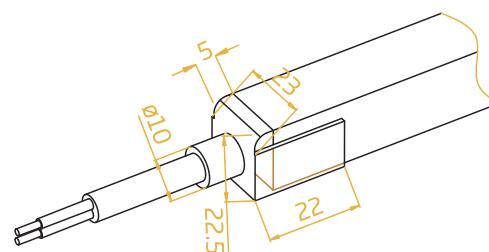
FXN 2222|FLEXIBLE NEON  
CONNECTORS

Silicone Injection-moulded Connector IP68

Silicone Injection-moulded Front Connector-End



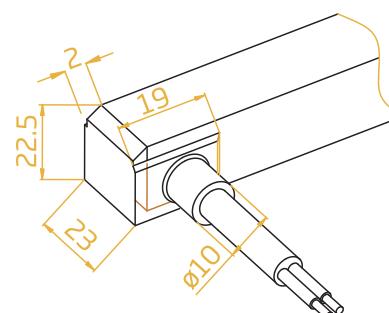
FXN - 2222 - C - SIM - FE



Silicone Injection-moulded Front Connector-Side



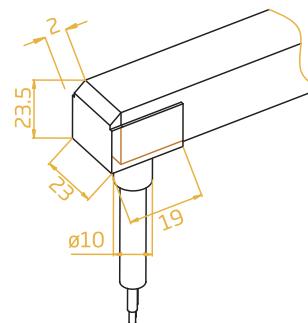
FXN - 2222 - C - SIM - FS



Silicone Injection-moulded Front Connector -Bottom



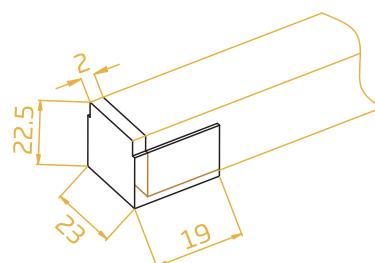
FXN - 2222 - C - SIM - FB



Silicone Injection-moulded End Cap



FXN - 2222 - C - SIM - EC



FXN 2222|FLEXIBLE NEON  
CONNECTORS

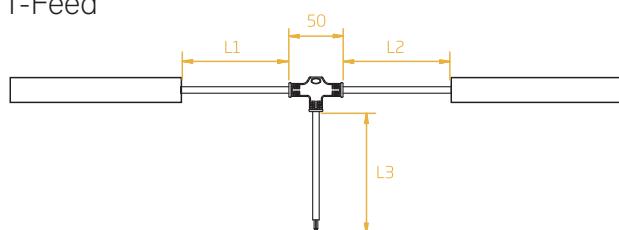
Silicone Injection-moulded Connector IP68

## Silicone Injection-moulded Middle Connector &amp; Power T-Feed



FXN - 2222 - C - SIM - TF

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



## Note:

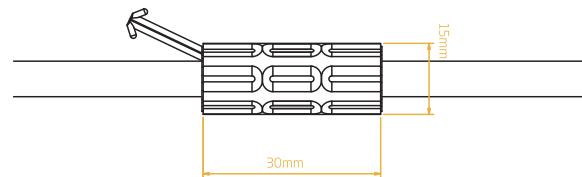
1. Unless otherwise stated, the tolerance of the connector is  $\pm 0.5\text{mm}$ ;
2. To avoid damage from excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

## 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:

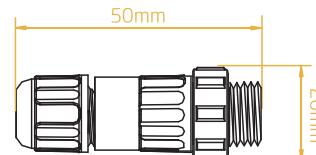
1. Unless otherwise stated, the tolerance is  $\pm 0.5\text{mm}$ .
2. The removal of anti-wicking ferrule will void the warranty if any water ingressation caused by it.

## Male &amp; Female Connector



For plug and play cable junction, IP67.

FXN - 2222 - MC / FXN - 2222 - FC



## Note:

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

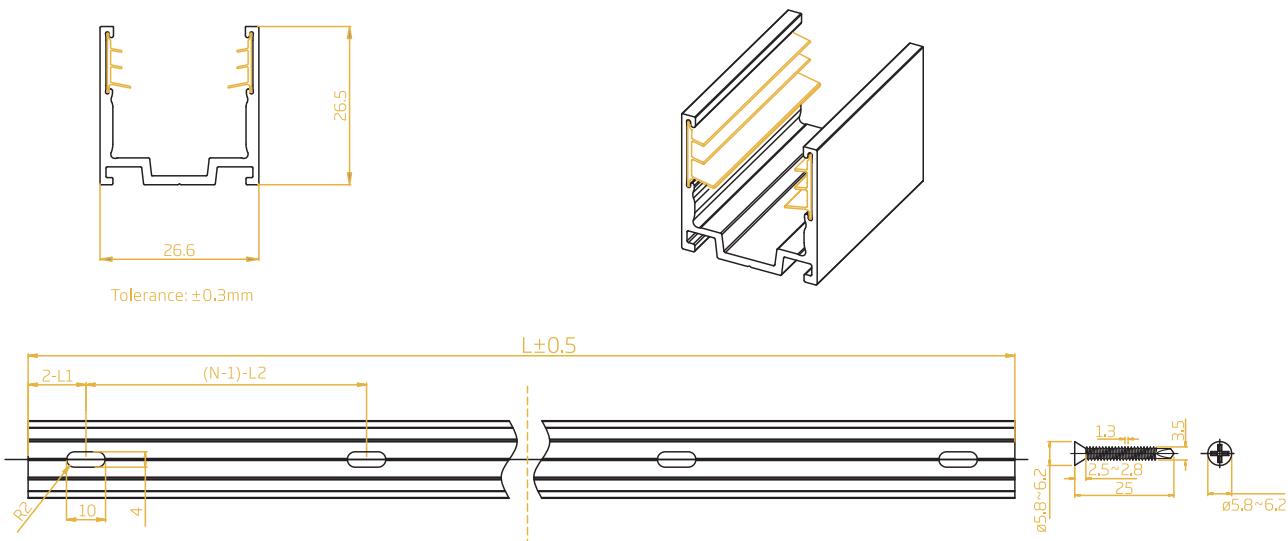
## FXN 2222|FLEXIBLE NEON

## 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.
3. "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

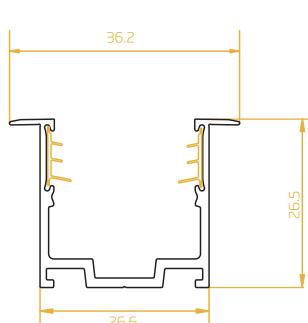
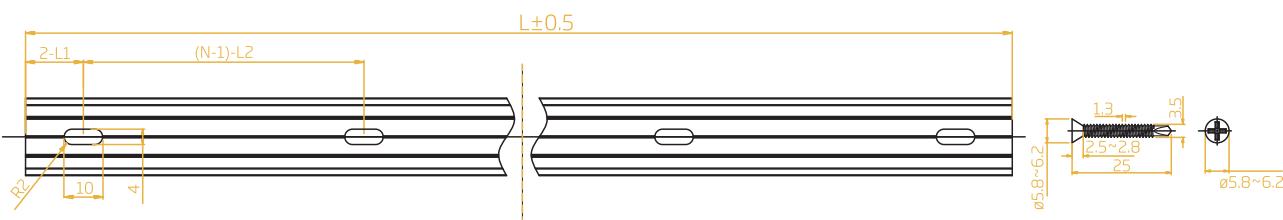
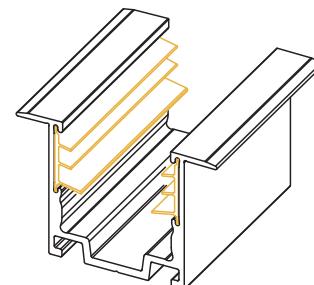
## FXN 2222|FLEXIBLE NEON

## MOUNTING PROFILES

## Flange Serrated Aluminium Profile



Dimensions: mm

Tolerance:  $\pm 0.3\text{mm}$ 

## Note:

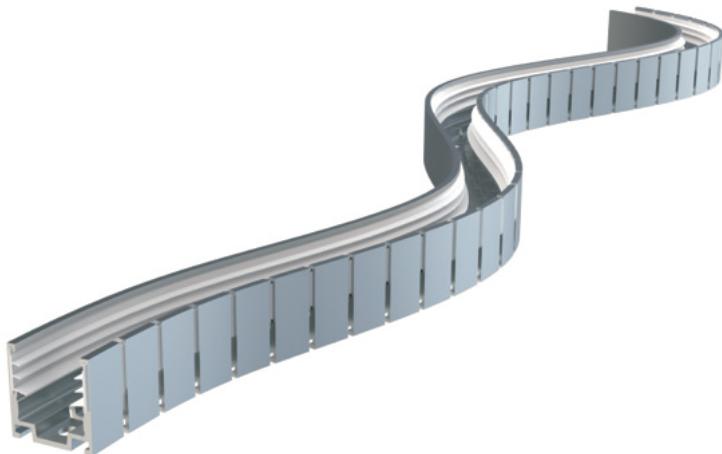
1. 2-L1 refers to two of symmetric L1 in each piece of profile.
  2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile
- "N" hereby stands for its corresponding "Hole Number" in the below table

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

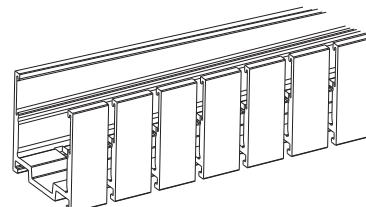
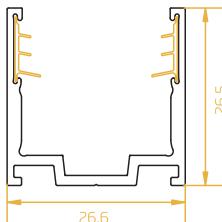
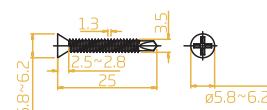
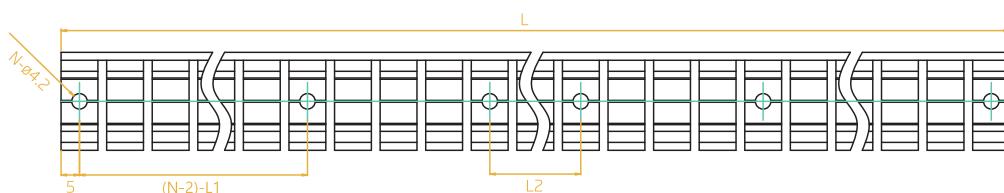
## FXN 2222|FLEXIBLE NEON

## MOUNTING PROFILES

Bendable Serrated Aluminium Profile



Dimensions: mm

Tolerance:  $\pm 0.3\text{mm}$ 

## Note:

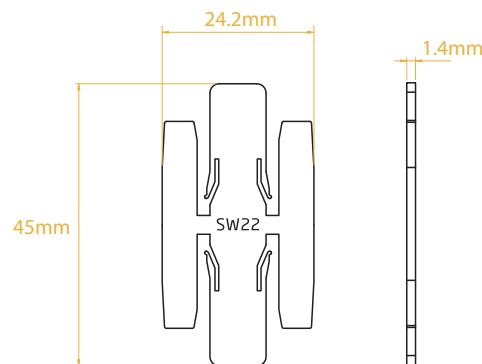
- 1-2-5 refers to two of symmetric 5mm in each piece of profile.
  - 2- (N-2)-L1 refers to (N minus two) of symmetric L1 in each piece of profile.
- "N" hereby stands for its corresponding "Hole Number" in the below table

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



Item Code: FXN - 2222 - B - J

Note: Applicable to serrated aluminium profile.

