## 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 UVC2903 or UCS2904 IC chips in both RGB and RGBW.

Constructed from durable 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 -40ºC to 45ºC, making it ideal for demanding environments and complex lighting installations.

XSTREAM | 5 YEAR WARRANTY | RGBW | ANODISED ALUMINIUM | IP67 | IK10
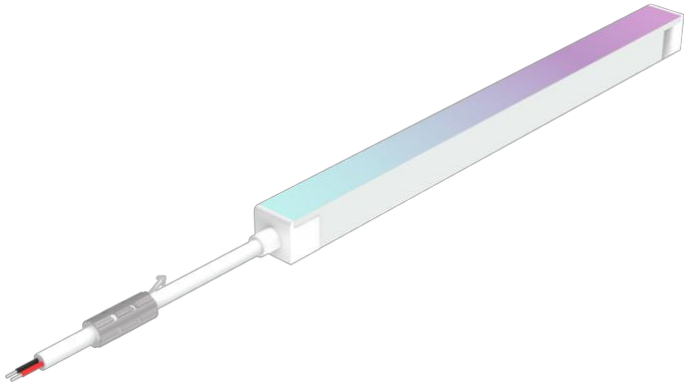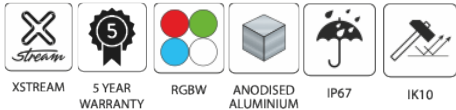
PART NUMBER CONFIGURATOR

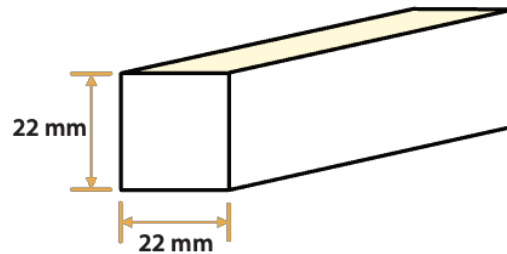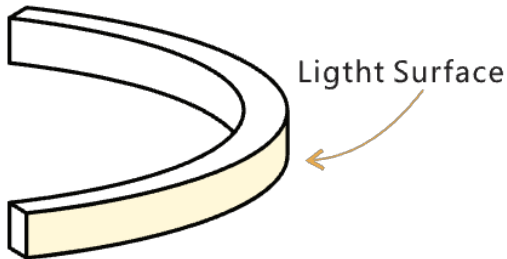| Prefix	Model	LED Colour	Control	Bending Direction	Voltage	Power	CRI
FXN	2222	RGBW(27K) RGBW(30K) RGBW(40K) RGB White (27K-57K)	X – X-Stream SPI DMX	HB – Horizontal Bend	24 – 24V DC	12 15 16.5 18 22	80 90
EXAMPLE: FXN – 2222 – RGBW(27K) – X – HB – 24 – 12 – 90							

SPECIFICATIONS

Electrical		
	Power Consumption	16.5W per metre (fixed, standard configuration)
	Operating Voltage	24V DC
	Installation Temperature	-40ºC TO 50ºC - (-40ºF TO 122ºF)
	Operating Temperature	-40ºC TO 45ºC - (-40ºF TO 113ºF)
	Storage Temperature	-40ºC TO 60ºC - (-40ºF TO 140ºF)
	Voltage Drop (%)	0.83% (3m of light) / 2.08% (5m of light) / 5.83% (8m of light)
Physical		
	Dimensions	L: 1000mm – H: 22mm – W: 22mm
	Housing / Lens	Silicone
	Weight/m	0.55kg/m
	IK Rating	IK10
	IP Rating	IP67
	Min. Cutting Unit	7LEDs(1unit)
	Min. Cutting Length	83.3mm(1unit)
	Unit/m (Pixel Qty/m)	12 pixels
	Connectors	Injection-moulded connector, and male and female connectors
	Mounting Options	Serrated Aluminium Profile, Flange Serrated Aluminium Profile, and Bendable Serrated Aluminium Profile
	Data Maximum Run Length	64m @ 12pixels/m – 6 universes
Optical		
	Beam Angle	120º
	Colour Range	RGBW, RGB, White
	LED Qty/m	84LEDs
	LED Type	EPISTAR SMD LED 5050
	LED Distance	16.67mm
	Total Lumens	>50lm/m
Control	Dimming Protocols	**X-Stream:** SPI protocol with data redundancy Others – SPI, DMX
Fixture Rating & Certifications	UL LISTED, CE RoHs COMPLIANT	UL	CE	RoHS
Limited Warranty	5 Years	Extendable warranty available

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1 / 6

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DIMENSIONS & MOUNTING

DIMENSIONS OF LIGHT

Ligtht Surface

22 mm

22 mm

Note: Unless otherwise stated, the tolerance of the light is ±0.3mm.

MINIMUM BEND DIAMETER

TYPES OF CONNECTORS

Φ 300 mm

Light Surface

Light Surface

Φ 300 mm
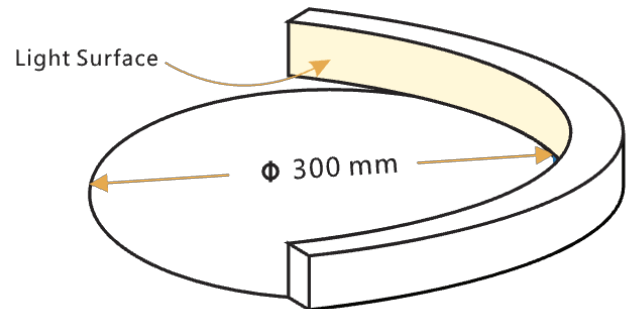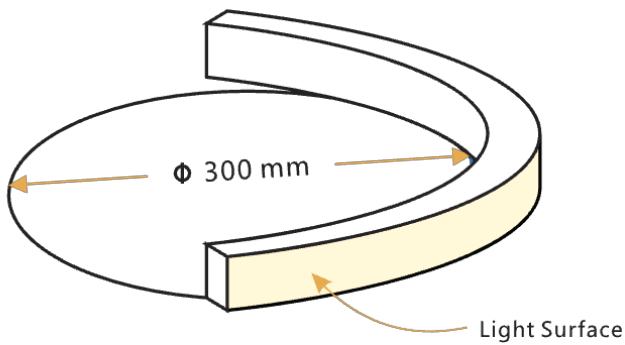
The light can only be bent along the light surface. Do not bend smaller than allowed minimum bend diameter.
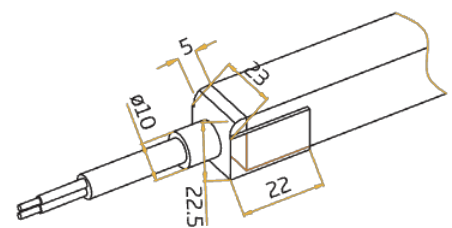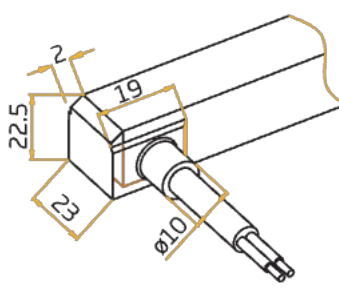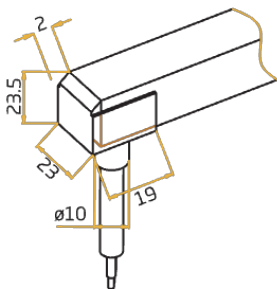
INJECTION-MOULDED CONNECTOR

1. Unless otherwise stated, the tolerance of the connector is ±0.5mm;
2. Continuous length up to 8m by powering one end.

A pre-installed IP67 side feed cable connects the light to the power supply.
Cable lengths are available in 0.3m, 1m, 3m, 5m, and 10m.
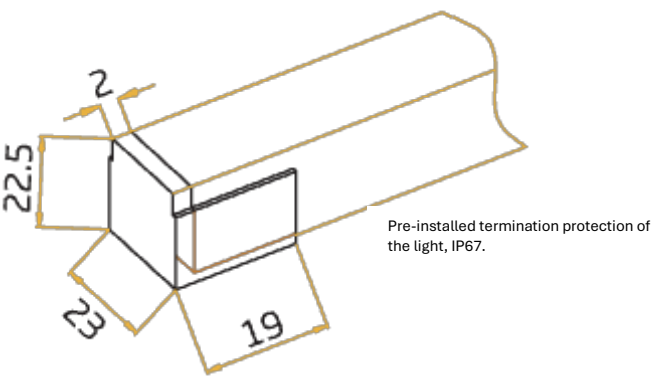
BOTTOM

SIDE

TOP END

2
23.5
23
ø10
19

2
19
22.5
23
ø10

5
23
ø10
22
22.5

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2 / 6
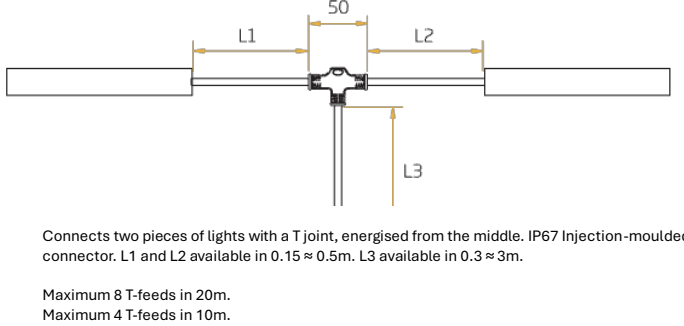
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TYPES OF CONNECTORS

INJECTION-MOULDED CONNECTOR

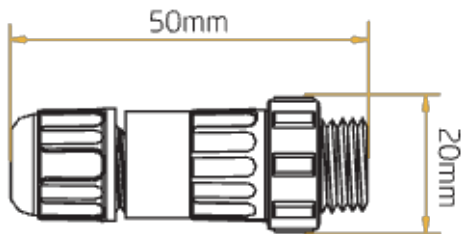| END CAP	T-FEED
Pre-installed termination protection of the light, IP67.	Connects two pieces of lights with a T joint, energised from the middle. IP67 Injection-moulded connector. L1 and L2 available in 0.15 ≈ 0.5m. L3 available in 0.3 ≈ 3m. Maximum 8 T-feeds in 20m. Maximum 4 T-feeds in 10m.

ANTI-WICKING FERRULE

Note: Unless otherwise stated, the tolerance is ±0.5mm.
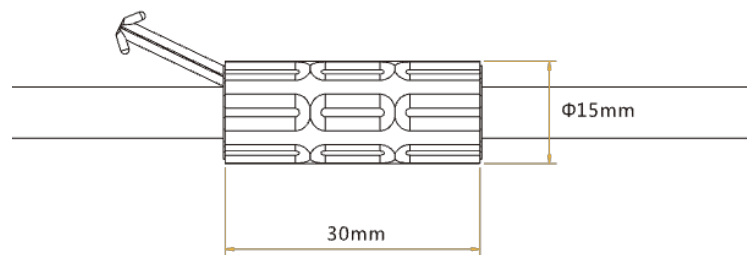
The anti-wicking ferrule is located at 115mm (±5mm tolerance) from the connector on the table

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

MALE & FEMALE CONNECTOR

For plug-and-play cable junction, DIY or Pre-installed connector, IP68

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3 / 6

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MOUNTING PROFILES

SERRATED ALUMINIUM PROFILE
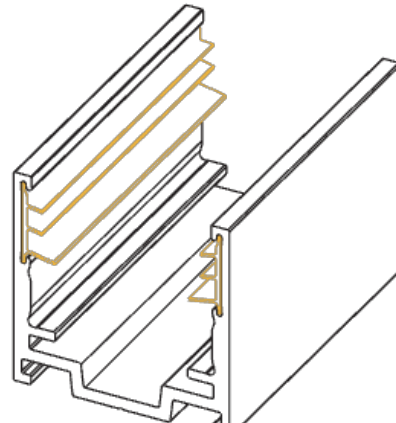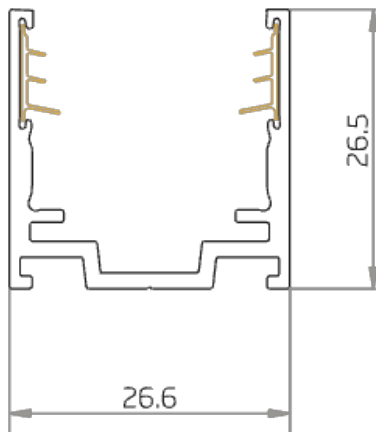
26.5

26.6

Note: Unless otherwise stated, the tolerance of the profile is ±0.3mm

L±0.5

2-L1   (N-1)-L2

R2   10   4

Ø5.8~6.2

1.3   3.5
2.5~2.8
25
Ø5.8~6.2

Installation Way

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
F2222-SA/PL-20MM-AL	20	10	/	4*10mm /0.16*0.39in	1
F2222-SA/PL-500MM-AL	500	50	200	4*10mm /0.16*0.39in	3
F2222-SA/PL-1000MM-AL	1000	100	200	4*10mm /0.16*0.39in	5
F2222-SA/PL-2000MM-AL	2000	100	200	4*10mm /0.16*0.39in	10

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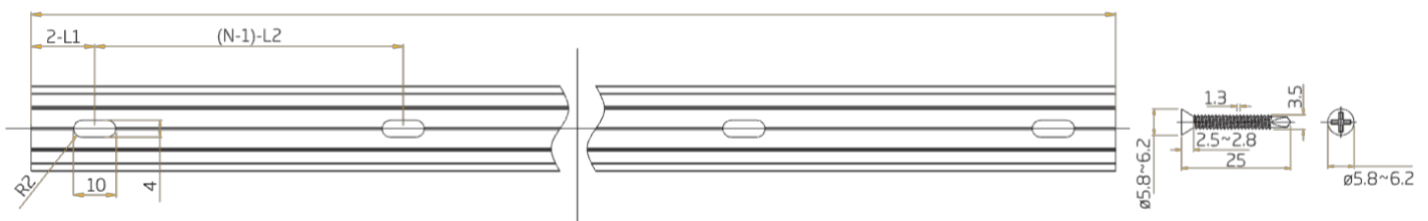ⓒ 2025 LEDCTRL. ALL RIGHTS RESERVED.

4 / 6

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MOUNTING PROFILES

FLANGE SERRATED ALUMINIUM PROFILE

Note: Unless otherwise stated, the tolerance of the profile is ±0.3mm

Installation Way

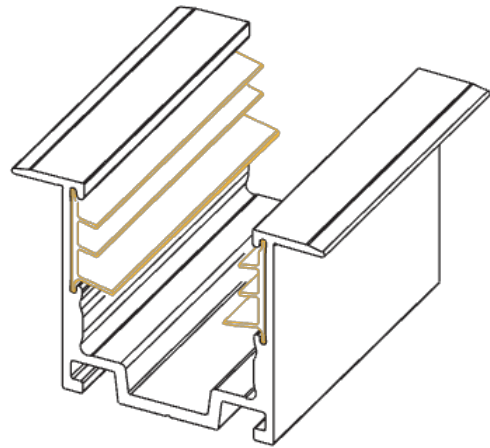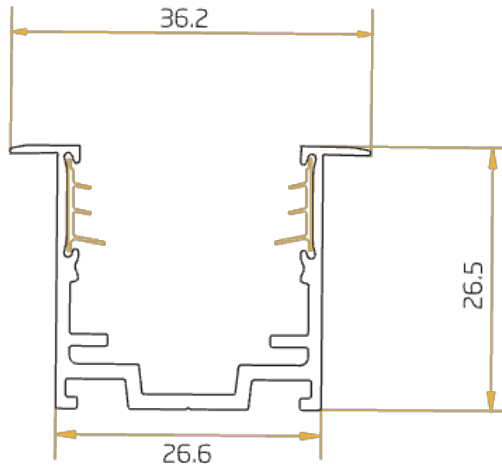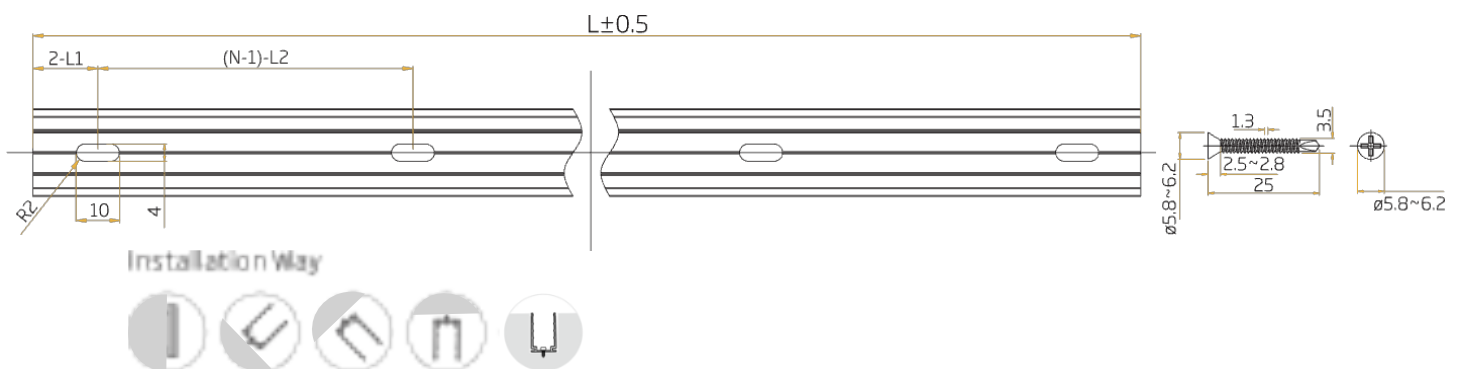| Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
F2222-FSA/PL-20MM-AL	20	10	/	4*10mm/0.16*0.39in	1
F2222-FSA/PL-500MM-AL	500	50	200	4*10mm/0.16*0.39in	3
F2222-FSA/PL-1000MM-AL	1000	100	200	4*10mm/0.16*0.39in	5
F2222-FSA/PL-2000MM-AL	2000	100	200	4*10mm/0.16*0.39in	10

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5 / 6

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MOUNTING PROFILES

BENDABLE SERRATED ALUMINIUM PROFILE

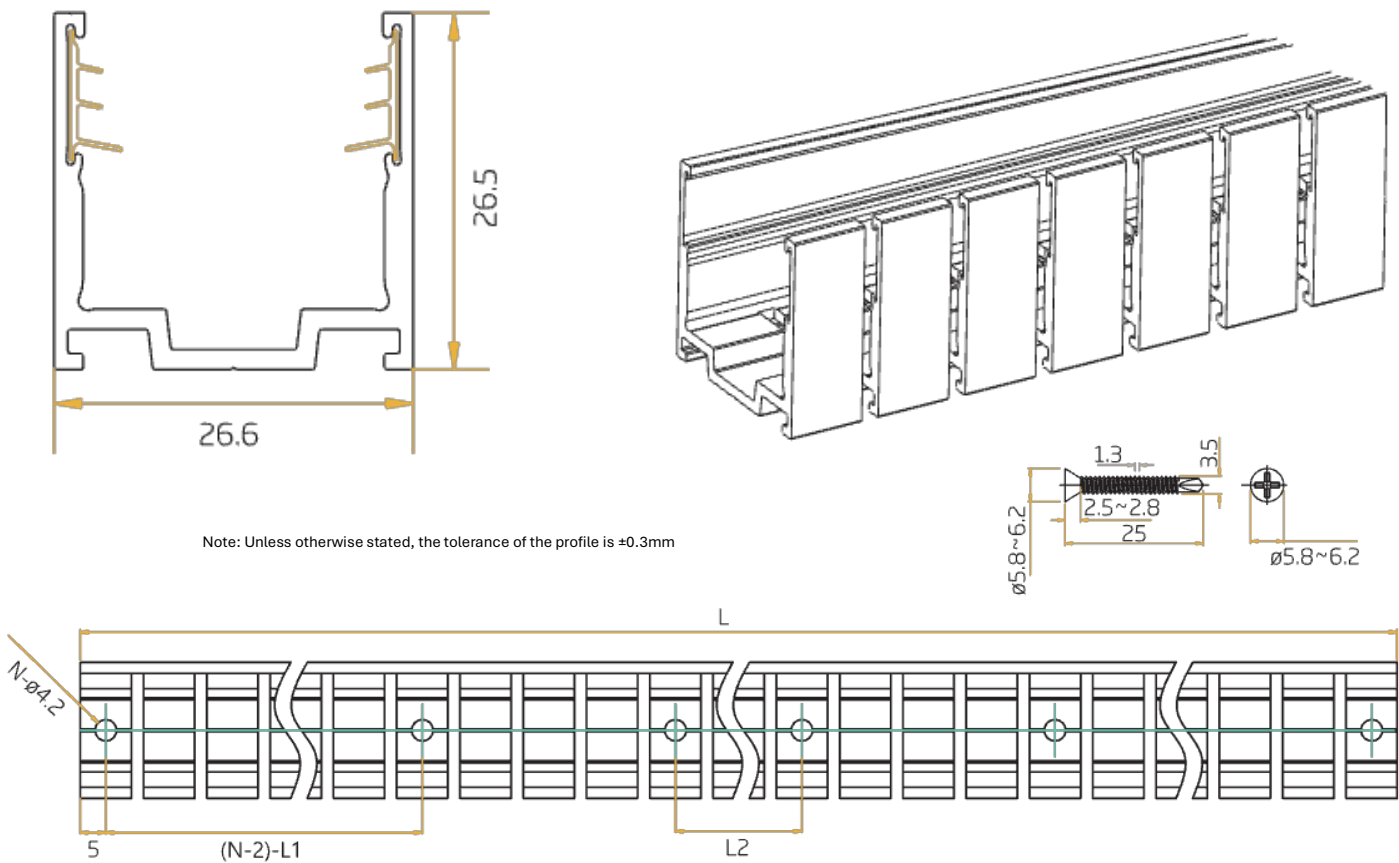Note: Unless otherwise stated, the tolerance of the profile is ±0.3mm

Item Code	Standard Length	L1	L2	Screw	Hole Number
F22-BSA/PL-500MM-AL	500	1000	98.8	ø4.2mm/0.17in	6
F22-BSA/PL-1000MM-AL	1000	500	48.9	ø4.2mm/0.17in	10

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6 / 6