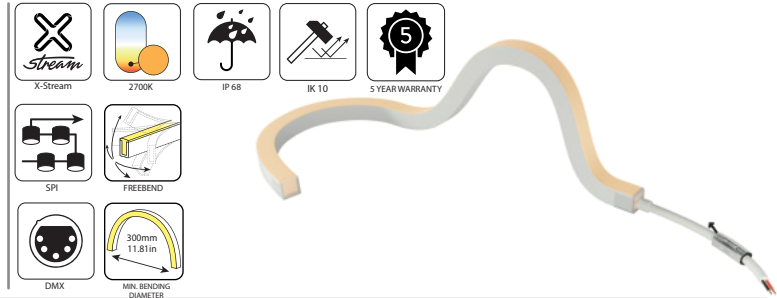


FXN 1617 FREEBEND | FLEXIBLE NEON

The FXN 1617 Freebend is a versatile, high-performance flexible LED solution designed for architectural and commercial environments that demand maximum adaptability. Its compact profile and RGBW output make it ideal for accentuating form, flow, and spatial features with precision.

It allows both horizontal and vertical bending within a single luminaire – enabling seamless integration around complex surfaces and curved geometries.

Constructed with silicone and IP66 rated for weather resistance, the FXN 1617 Freebend is optimised for both indoor and outdoor installations requiring flexible design freedom and long-lasting performance.



PART NUMBER CONFIGURATOR

Prefix	Model	LED Colour	White CCT	Control	Bending Direction	Power	Voltage	LEDs Qty/m	Min. Cutting Length (mm)
FXN	1617	R – Red G – Green B – Blue W – White (22K – 57K) DW – Dynamic White (27K≈57K)	22K – 2200K 24K – 2400K 27K – 2700K 30K – 3000K 35K – 3500K 40K – 4000K 50K – 5000K 57K – 5700K	D – DMX S – SPI X – X-Stream	F – Freebend	8 – 8W 12 – 12W	24 – 24V DC	154 – 154LEDs/m 308 – 308LEDs/m	45.4 – 45.4mm

Example: FXN – 1617 – W – 30K – D – F – 8 – 24 – 154 – 45.4

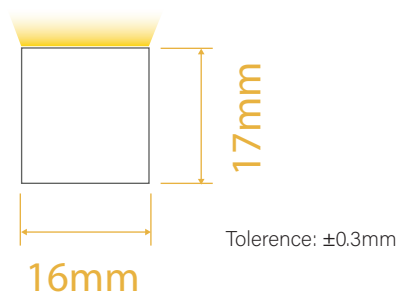
SPECIFICATIONS

Electrical	Power Consumption Operating Voltage Installation Temperature Operating Temperature Storage Temperature	8W/m (R, G, B, W), 12W/m (DW) 24V DC -40°C TO 50°C - (-40°F TO 122°F) -40°C TO 60°C - (-40°F TO 140°F) -40°C TO 60°C - (-40°F TO 140°F)
Physical	Dimensions Bending Housing / Lens Finish Weight/m CRI IP Rating LED Quantity/m Min. Cutting Length Min. Bending Diameter Connectors Mounting Profiles Data Maximum Run Length	L: 1000mm – W: 16mm – H: 17mm Freebend Silicone White Body, Milky Light Surface, Dark Base Marking 330g ≥90 IP68 154LEDs/m (R, G, B, W), 308LEDs/m (DW) 45.4mm(1unit) 300mm Silicone Injection-moulded Connector Aluminium Profile, Flange Aluminium Profile, Serrated Aluminium Profile, Flange Serrated Aluminium Profile, Bendable Serrated Aluminium Profile (HB) 64m @ 12pixels/m – 6 universes
Optical	Beam Angle Colour Range Total Lumens	120° R, G, B, White (2200K, 2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 5700K), Dynamic White (27K≈57K) >620lm (ErP 8W) @3000K (R, G, B, W), >310lm @5700K (DW)
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	10 Years	Extendable Warranty Available

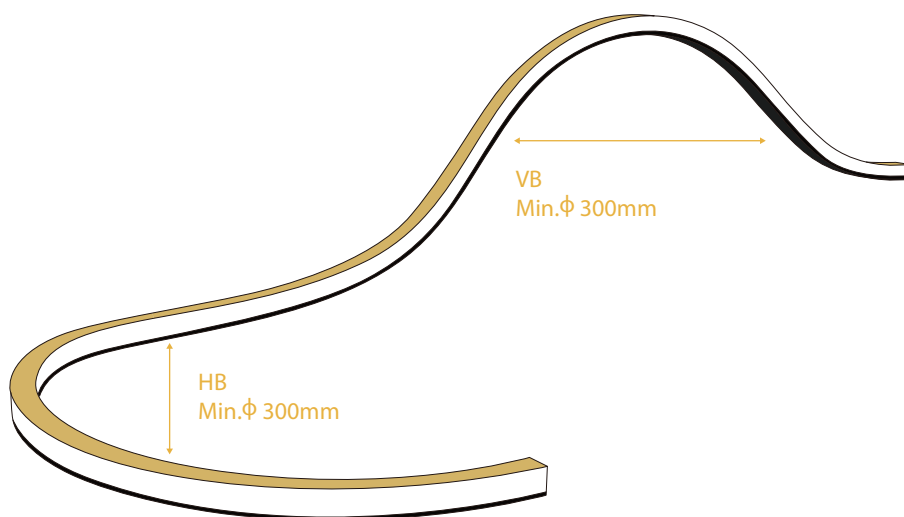
FXN 1617 FREEBEND | FLEXIBLE NEON

DIMENSIONS & BENDING

Dimensions of Light



Minimum Bending Diameter



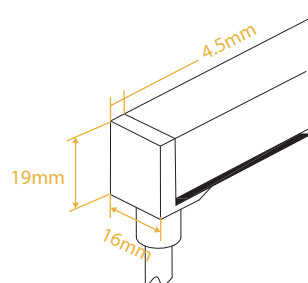
FXN 1617 FREEBEND | FLEXIBLE NEON CONNECTORS

Silicone Injection-moulded Connector IP68

Silicone Injection-moulded Front Connector-Bottom



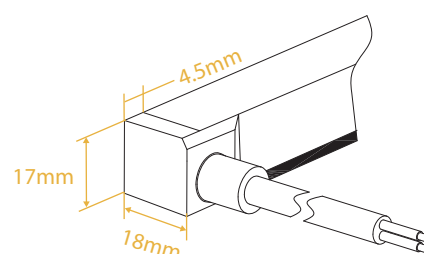
FXN - 1617 - F - C - SIM - FB



Silicone Injection-moulded Front Connector-Side



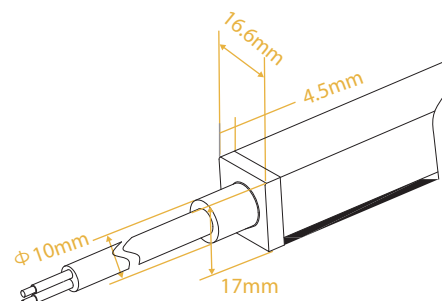
FXN - 1617 - F - C - SIM - FS



Silicone Injection-moulded Front Connector-End



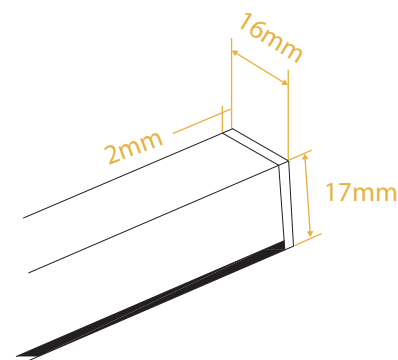
FXN - 1617 - F - C - SIM - FE



Silicone Injection-moulded End Cap



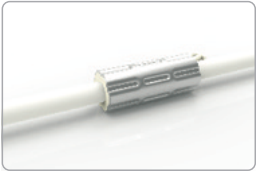
FXN - 1617 - F - C - SIM - EC



FXN 1617 FREEBEND|FLEXIBLE NEON

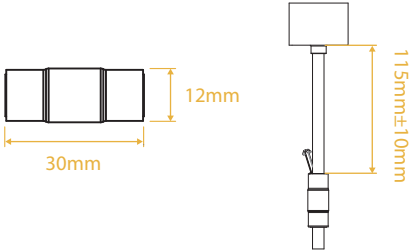
CONNECTORS

Anti-wicking Ferrule



The anti-wicking ferrule is located at 115mm (±10mm tolerance) from the connector on the cable.

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



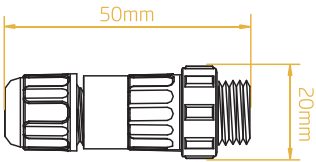
- Note:
1. Unless otherwise stated, the tolerance is ±0.5mm.
 2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.

Male & Female Connector



For plug and play cable junction, IP67.

FXN – 1617 – F – MC / FXN – 1617 – F – FC



- Note:
- Unless otherwise stated, the tolerance is ±2mm.

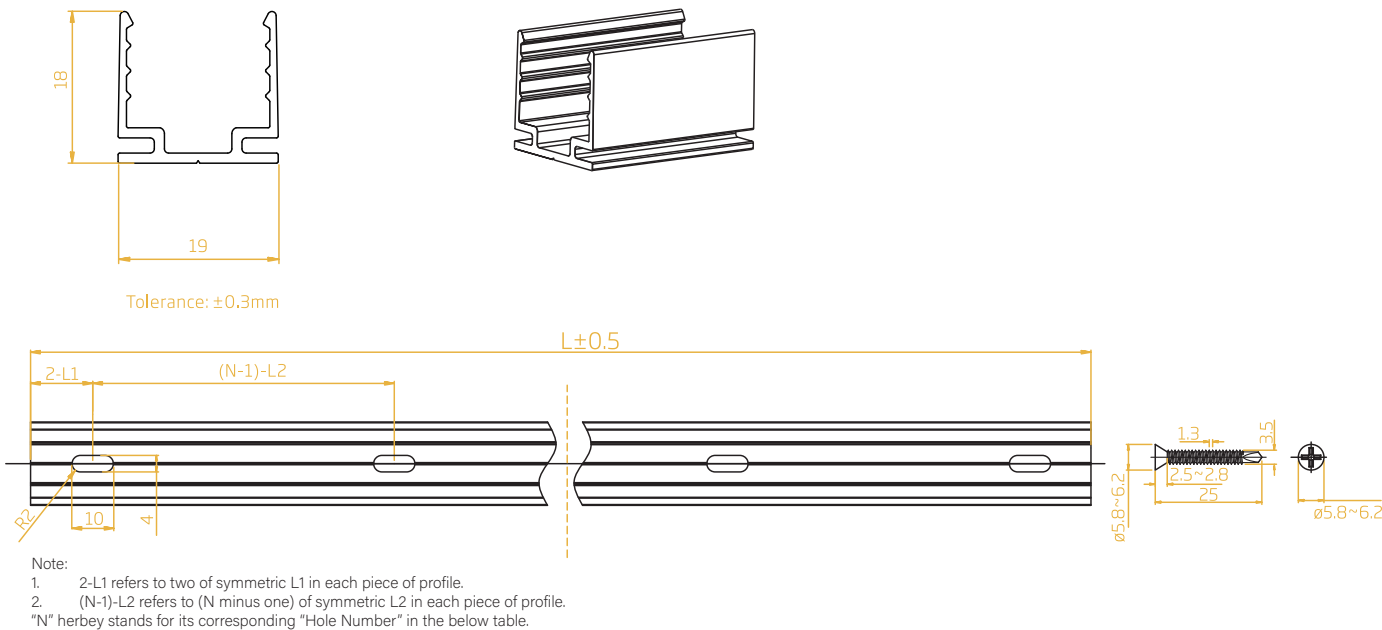
FXN 1617 FREEBEND | FLEXIBLE NEON

MOUNTING PROFILES

Aluminium Profile



Dimensions: mm



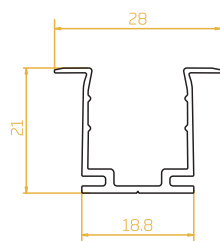
Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN - 1617 - F - A/PL - 35MM - AL	35mm/1.38in	17.5mm/0.69in	/	4*10mm/0.16*0.39in	1
FXN - 1617 - F - A/PL - 500MM - AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FXN - 1617 - F - A/PL - 1000MM - AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FXN - 1617 - F - A/PL - 2000MM - AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

FXN 1617 FREEBEND | FLEXIBLE NEON MOUNTING PROFILES

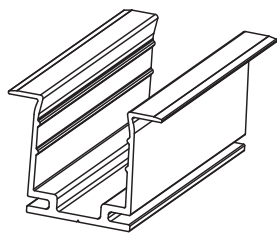
Flange Aluminium Profile



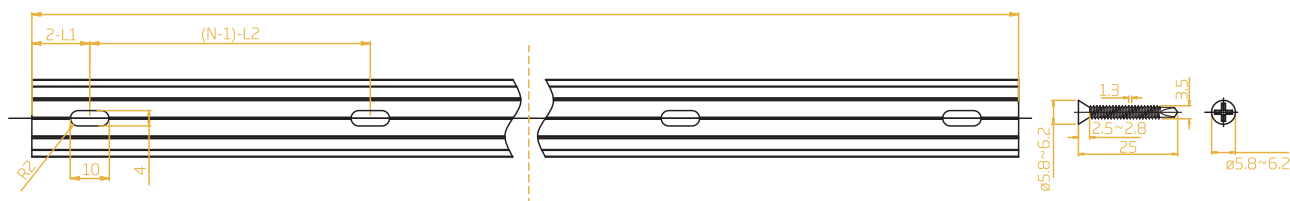
Dimensions: mm



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



$L \pm 0.5$



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 - 1617 - F - FA/PL - 35MM - AL	35mm/1.38in	17.5mm/0.69in	/	4*10mm/0.16*0.39in	1
FXN - 1617 - F - FA/PL - 500MM - AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FXN - 1617 - F - FA/PL - 1000MM - AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FXN - 1617 - F - FA/PL - 2000MM - AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

FXN 1617 FREEBEND

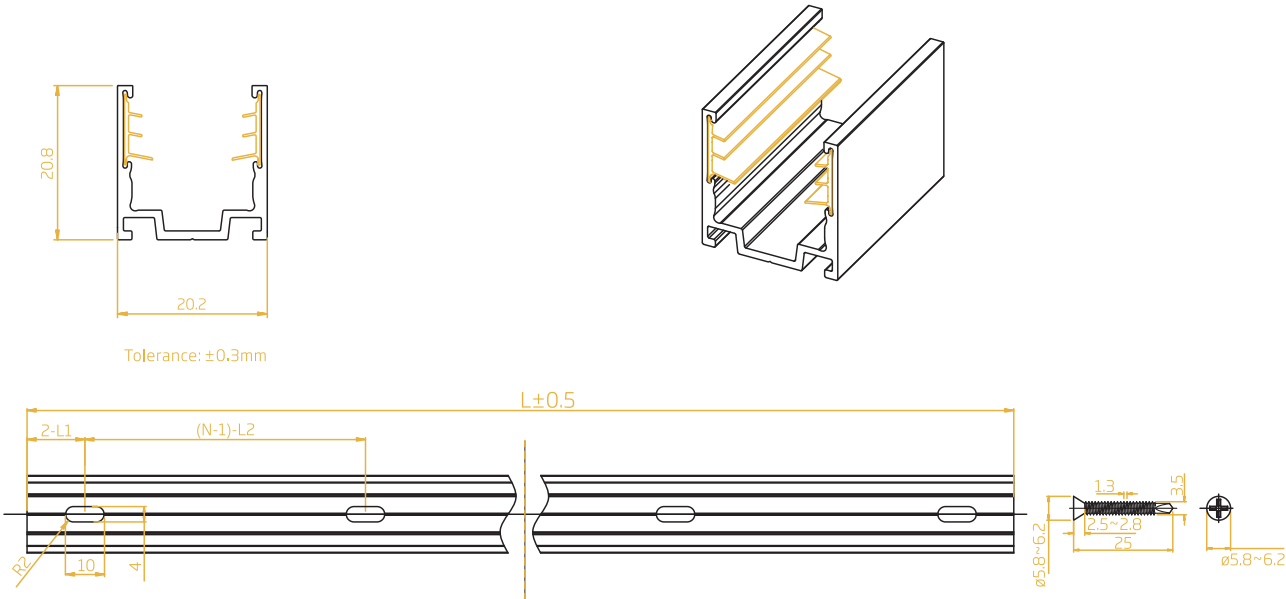
FLEXIBLE NEON

MOUNTING PROFILES

Serrated Aluminium Profile



Dimensions: mm



Note:

1. 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 - 1617 - F - SA/PL - 20MM - AL	20mm/0.79in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
FXN - 1617 - F - SA/PL - 500MM - AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FXN - 1617 - F - SA/PL - 1000MM - AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FXN - 1617 - F - SA/PL - 2000MM - AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

FXN 1617 FREEBEND

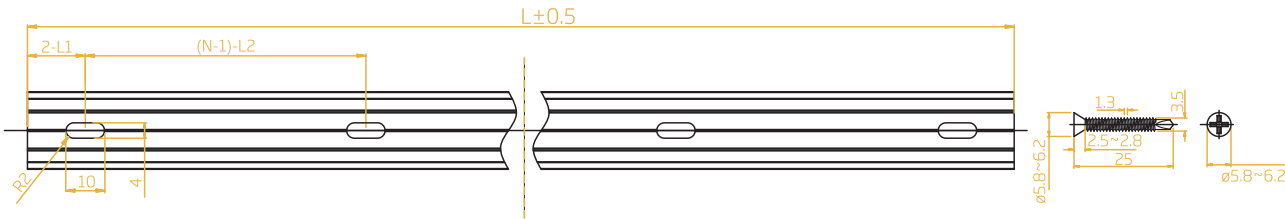
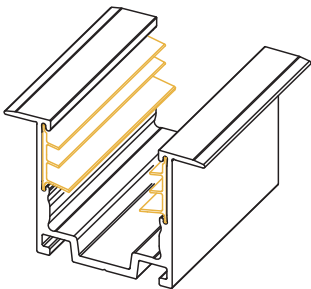
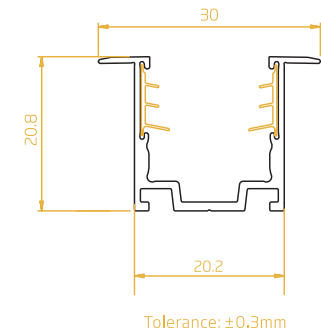
FLEXIBLE NEON

MOUNTING PROFILES

Flange Serrated Aluminium Profile



Dimensions: mm



Note:

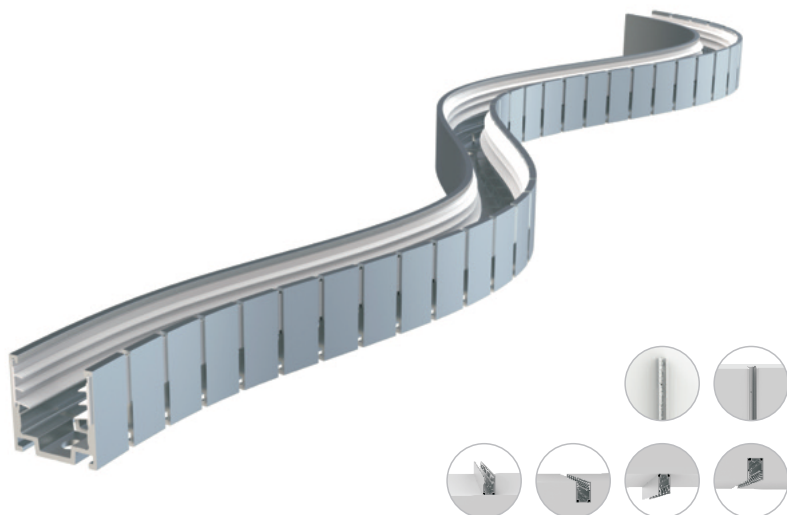
- L1 refers to two of symmetric L1 in each piece of profile.
- (N-1) - L2 refers to (N minus one) of symmetric L2 in each piece of profile.

"N" hereby stands for its corresponding "Hole Number" in the below table.

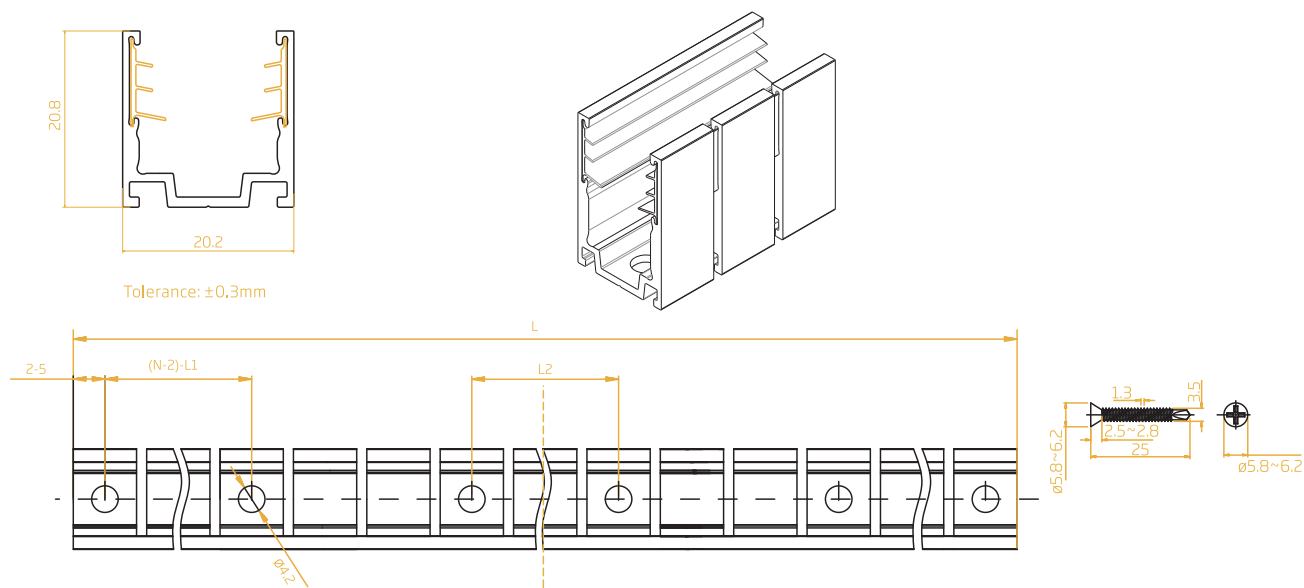
Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN - 1617 - F - FSA/PL - 20MM - AL	20mm/0.79in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
FXN - 1617 - F - FSA/PL - 500MM - AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FXN - 1617 - F - FSA/PL - 1000MM - AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FXN - 1617 - F - FSA/PL - 2000MM - AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

FXN 1617 FREEBEND | FLEXIBLE NEON MOUNTING PROFILES

Bendable Serrated Aluminium Profile



Dimensions: mm



Note:

1. 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 - 1617 - F - BSA/PL - 500MM - AL	500mm/19.68in	110.3mm/4.34in	48.9mm/1.92in	4.2mm/0.17in	6
FXN - 1617 - F - BSA/PL - 1000MM - AL	1000mm/39.37in	111.4mm/4.39in	98.8mm/3.89in	4.2mm/0.17in	10