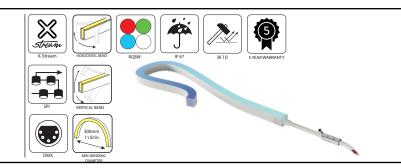


The FXN 1617 is a high-performance, flexible LED lighting solution for dynamic architectural and commercial applications. Its compact profile and RGBW output make it ideal for highlighting structure, space, and form.

Built with silicone and engineered to bend around complex surfaces, it offers customisable lengths and mounting flexibility for seamless integration into lighting designs.

With IP67 protection and IK08 impact resistance, the FXN 1617 suits indoor and outdoor environment demanding long-lasting performance.



PART NUMBER CONFIGURATOR

Prefix	Model	LED Colour	Control	Control	Bending Direction	Power	Voltage	CRI	Connectors
FXN	1617	R - Red G - Green B - Blue A - Amber RGB RGBW W - White (22K-57K) DW - Dynamic White (22K≈57K)	22K - 2200K 27K - 2700K 30K - 3000K 35K - 3500K 40K - 4000K 57K - 5700K	X – XStream SPI DMX	Bend VB - Vertical Bend	12 – 12W	24 – 24VC DC	80 90	SWC - Swivel Connector SNC - Snap Connector SOC - Socket Connector SIMC - Silicone Injection- moulded Connector DIMC - Dual Injection- moulded Connector

SPECIFICATIONS

Example: FXN - 1617 - RGBW - 27K - X - VB - 10 - 24 - SNC

Electrical	Power Consumption Operating Voltage Installation Temperature Operating Temperature Storage Temperature	10W/m (AW), 12W/m (R,G,B,A,W), 16.5W/m (RGB), 22W/m (RGBW) 24V DC -40°C TO 50°C - (-40°F TO 122°F) -40°C TO 55°C - (-40°F TO 131°F) -40°C TO 60°C - (-40°F TO 140°F)
Physical	Dimensions Bending Housing / Lens Weight/m IK Rating IP Rating Min. Cutting Unit Min. Cutting Length Min. Bending Diameter Unit/m (Pixel Qty/m) Connectors Mounting Profiles Mounting Brackets Mounting Clips Data Maximum Run Length	L: 1000mm – H: 17mm – W: 16mm Horoizontal Bending / Vertical Bending Silicone 365g IK08 IP67 7LEDs(1unit) 83.3mm(1unit) 300mm 12 pixels Swivel Connector, Snap Connector, Socket Connector, Silicone Injection-moulded Connector, Dual Injection-moulded Connector Aluminium Profile, Flange Aluminium Profile, Thickened Plastic Profile, Stainless Steel Profile, Self-clinching Aluminium Profile, Bendable self-clinching Aluminium Profile, Serrated Aluminium Profile, Flange Serrated Aluminium Profile, Bendable SerratedO Aluminium Profile, Surface-mounted Raceway Aluminium Profile, Suspended Raceway Aluminium Profile, Bendable Anole Profile Pivot Mounting Bracket, Rotary Locking Bracket, Side Mounting Bracket, Joining Bracket Ceiling Mounting Clip, Suspended Mounting Clip, Cable-exit Mounting Clip 64m @ 12pixels/m – 6 universes
Optical	Beam Angle Colour Range LED Qty/m LED Type LED Distance Total Lumens	120° R, G, B, A, White (2200K, 2700K, 3000K, 3500K, 4000K, 5700K), Dynamic White (22K-57K) 84LEDs EPISTAR SMD LED 16.67mm <600lm/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	CE ROHS UL
Limited Warranty	5 Years	Extendable Warranty Available

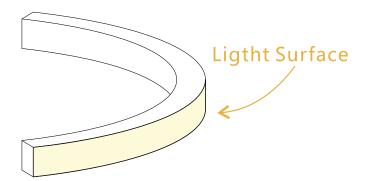


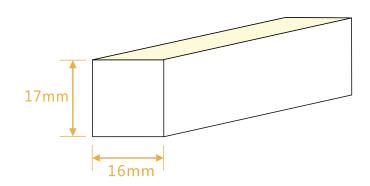
LED CTRL, 1/483 BALMAIN LILYFIELD, NSW 2040, AUSTRALIA



DIMENSIONS & BENDING

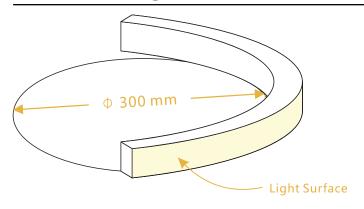
Dimensions of Light



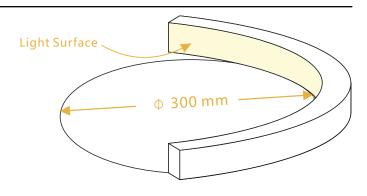


Note: Unless otherwise stated, the tolerance of the light is \pm 0.3mm.

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.



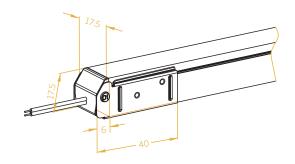
CONNECTORS

Swivel Connector IP40

Swivel Front Connector



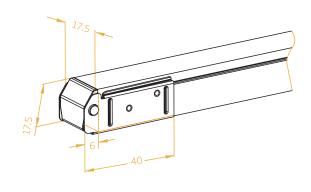
FXN - 1617 - C - SW - F



Swivel End Cap



FXN - 1617 - C - SW - EC



- Unless otherwise stated, the tolerance of the connector is ±0.5mm;
 To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.



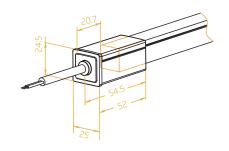
CONNECTORS

Snap Connector IP67

Snap Front Connector-End



FXN - 1617 - C - SN - FE

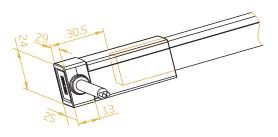


Snap Front Connector-Side





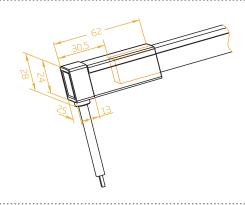
FXN - 1617 - C - SN - FS



Snap Front Connector-Bottom



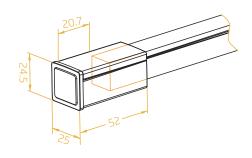
FXN - 1617 - C - SN - FB



Snap End Cap



FXN - 1617 - C - SN - EC





CONNECTORS

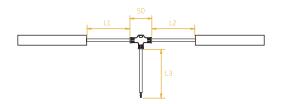
Snap Connector IP67

Snap Middle Connector & Power T-feed



FXN - 1617 - C - SN - TF

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



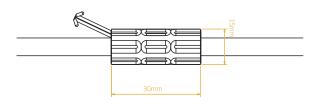
- Unless otherwise stated, the tolerance of the connector is ± 0.5 mm; To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

Anti-wicking Ferrule



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

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



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

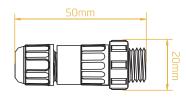
WWW.LEDCTRL.COM

Male & Female Connector



For plug and play cable junction, IP67.

FXN - 1617 - MC / FXN - 1617 - FC





Unless otherwise stated, the tolerance is ± 2 mm.



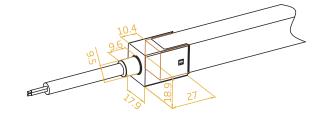
CONNECTORS

Socket Connector IP67

Socket Front Connector



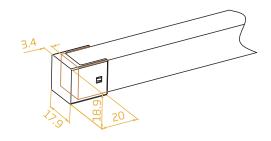
FXN - 1617 - C - SO - F



Snap Front Connector-Side



FXN - 1617 - C - SO - FS



- Unless otherwise stated, the tolerance of the connector is ± 0.5 mm,
- To avoid damage from the excesive force on cable joint, please keep at least 60mm of cable ahead in the natural state. Please refer to the Installation Guide about how to assemble the socket connector.

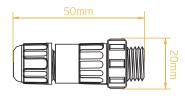
WWW.LEDCTRL.COM

Male & Female Connector



For plug and play cable junction, IP65.

FXN - 1617 - MC / FXN - 1617 - FC



Unless otherwise stated, the tolerance is ±2mm.



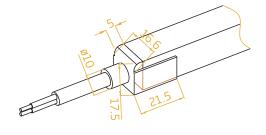
CONNECTORS

Silicone Injection-moulded Connector IP68

Silicone Injection-moulded Front Connector-End



FXN - 1617 - C - SIM - FE

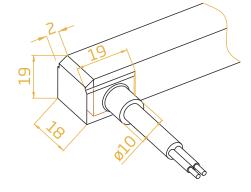


Silicone Injection-moulded Front Connector-Side



FXN - 1617 - C - SIM - FS

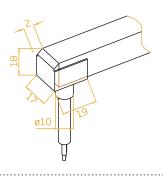




Silicone Injection-moulded Front Connector -Bottom



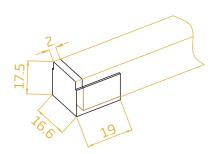
FXN - 1617 - C - SIM - FB



Silicone Injection-moulded End Cap



FXN - 1617 - C - SIM - EC







CONNECTORS

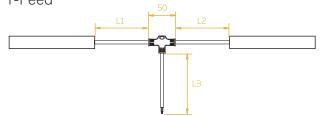
Silicone Injection-moulded Connector IP68

Silicone Injection-moulded Middle Connector & Power T-Feed



FXN - 1617 - C - SIM - TF

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



Note:

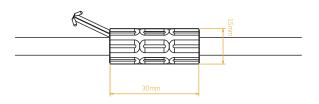
- Unless otherwise stated, the tolerance of the connector is ±0.5mm;
- 2. To avoid damage from excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

Anti-wicking Ferrule



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

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



Note

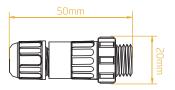
- Unless otherwise stated, the tolerance is ±0.5mm.
- 2. The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.

Male & Female Connector



For plug and play cable junction, IP67.

FXN - 1617 - MC / FXN - 1617 - FC



Note:

Unless otherwise stated, the tolerance is ±2mm.



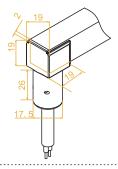
CONNECTORS

Silicone Injection-moulded Connector IP68

Silicone Injection-moulded Front Connector-Bottom



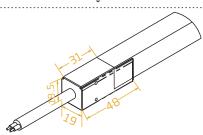
FXN - 1617 - C - SIM - B



Silicone Injection-moulded Front Connector-End



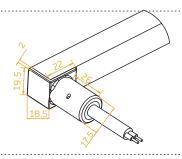
FXN - 1617 - C - SIM - E



Silicone Injection-moulded Front Connector-Side



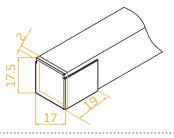
FXN - 1617 - C - SIM - S



Silicone Injection-moulded End Cap



FXN - 1617 - C - SIM - EC



- Unless otherwise stated, the tolerance of the connector is ±0.5mm.

 To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

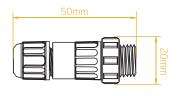
Male & Female Connector



For plug and play cable junction, IP67.

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FXN - 1617 - MC / FXN - 1617 - FC



Unless otherwise stated, the tolerance is ±2mm.



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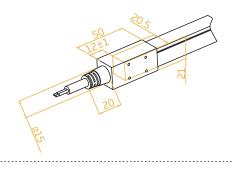
CONNECTORS

Dual Injection-moulded Connector IP68

Dual Injection-moulded Front Connector-End



FXN - 1617 - C - DIM- FE

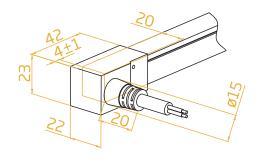


Dual Injection-moulded Front Connector-Side



FXN - 1617 - C - DIM - FS

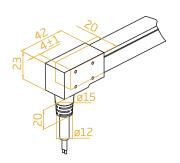




Dual Injection-moulded Front Connector-Bottom



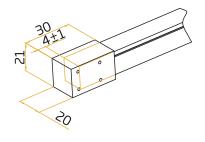
FXN - 1617 - C - DIM - FB



Dual Injection-moulded End Cap



FXN - 1617 - C - DIM - EC





CONNECTORS

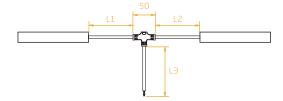
Dual Injection-moulded Connector IP68

Dual Injection-moulded Middle Connector & Power T-feed



FXN - 1617 - C - DIM - TF

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



Note:

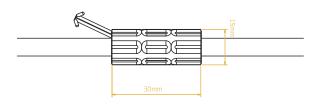
- Unless otherwise stated, the tolerance of the connector is ±0.5mm;
- 2. To avoid damage from excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

Anti-wicking Ferrule



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

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



Note:

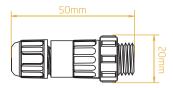
- I. Unless otherwise stated, the tolerance is ±0.5mm.
- The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.

Male & Female Connector



For plug and play cable junction, IP67.

FXN - 1617 - MC / FXN - 1617 - FC





Unless otherwise stated, the tolerance is ± 2 mm.

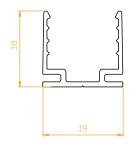


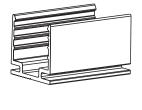
MOUNTING PROFILES

Aluminium Profile

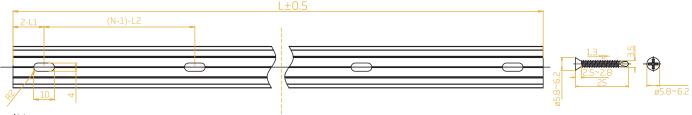


Dimensions: mm





Tolerance: ±0.3mm



- 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" herbey stands for its corresponding "Hole Number" in the below table.

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



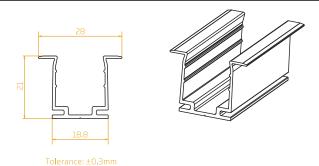


MOUNTING PROFILES

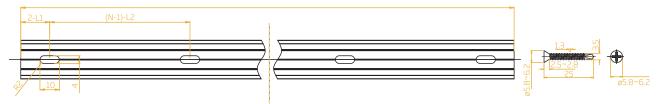
Flange Aluminium Profile



Dimensions: mm



L:



Note:

- 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" herbey stands for its corresponding "Hole Number" in the below table

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



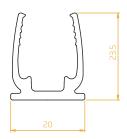


MOUNTING PROFILES

Thickened Plastic Profile

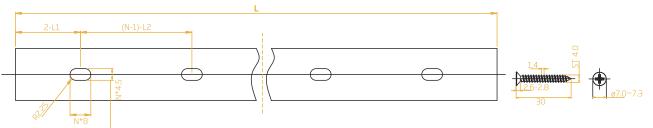


Dimensions: mm





Tolerance: ±0.5mm



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" herbey stands for its corresponding "Hole Number" in the below table

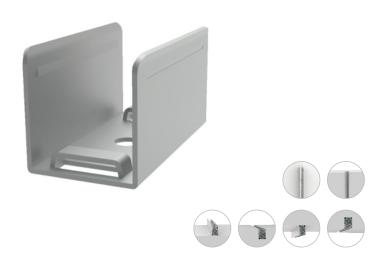
Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN - 1617 - TP/PL - 35MM - TT	35mm/1.38in	17.5mm/0.69in	/	4.5*8mm/0.18*0.31in	1
FXN - 1617 - TP/PL - 500MM - TT	500mm/19.68in	50mm/1.97in	200mm/7.87in	4.5*8mm/0.18*0.31in	3
FXN - 1617 - TP/PL - 1000MM- TT	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4.5*8mm/0.18*0.31in	5
FXN - 1617 - TP/PL - 2000MM- TT	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4.5*8mm/0.18*0.31in	10





MOUNTING PROFILES

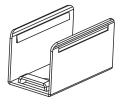
Stainless Steel Profile



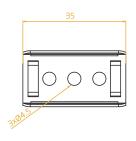
Dimensions: mm

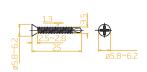


28



Tolerance: ±0,3mm





Item Code	Standard Length	Screw Hole	Hole Number	
FXN - 1617 - SS/PL - 35MM - SSL	35mm/1.38in	4.5mm/0.18in	3	

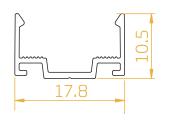


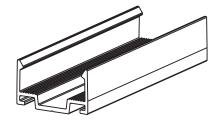
MOUNTING PROFILES

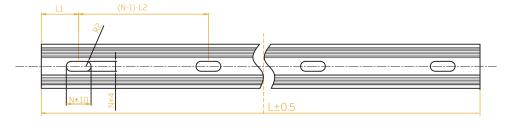
Self-clinching Aluminium Profile

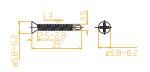


Dimensions: mm









- 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.

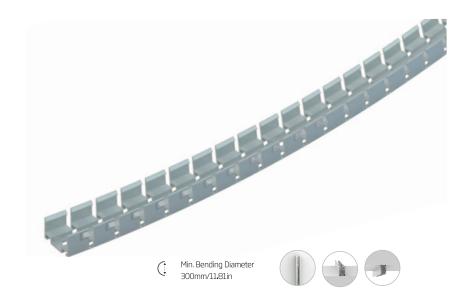
Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN - 1617 - SCA/PL - 20MM - AL	20mm/0.79in	/	/	4*10mm/0.16*0.39in	1
FXN - 1617 - SCA/PL - 500MM - AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FXN - 1617 - SCA/PL - 1000MM- AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in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



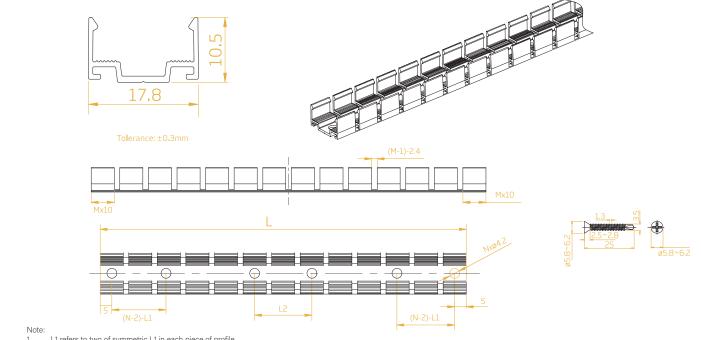


MOUNTING PROFILES

Bendable Self-clinching Aluminium Profile



Dimensions: mm



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 - BSCA/PL - 500MM - AL	500mm/19.68in	110.3mm/4.34in	48.9mm/1.92in	4.2mm/0.17in	6
FXN - 1617 - BSCA/PL - 1000MM - AL	1000mm/39.37in	116.5mm/4.59in	98.8mm/3.89in	4.2mm/0.17in	10



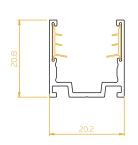


MOUNTING PROFILES

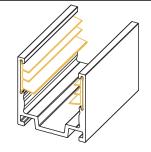
Serrated Aluminium Profile

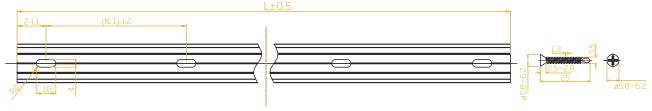


Dimensions: mm



Tolerance: ±0.3mm





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





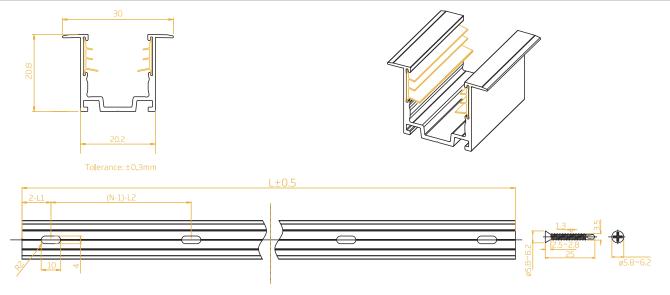
MOUNTING PROFILES

Flange Serrated Aluminium Profile





Dimensions: mm



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

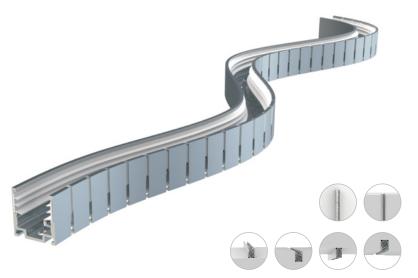




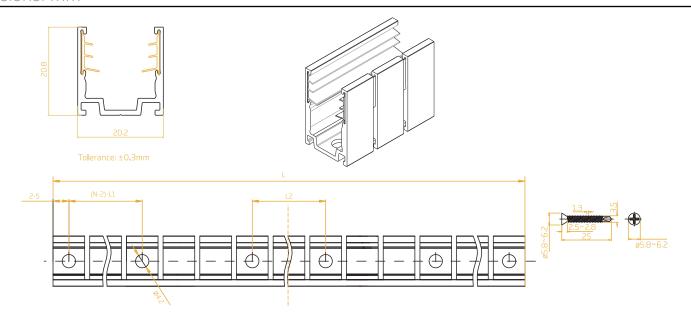
LEXIBLE NEON FXN 1617 FL

MOUNTING PROFILES

Bendable Serrated Aluminium Profile



Dimensions: mm



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.

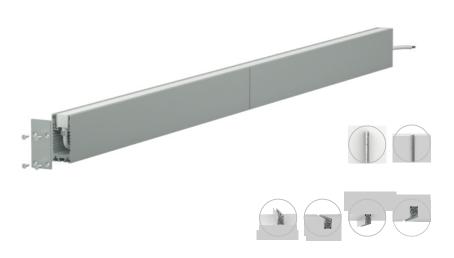
Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN - 1617 - BSA/PL - 500MM - AL	500mm/19.68in	110.3mm/4.34in	48.9mm/1.92in	4.2mm/0.17in	6
FXN - 1617 - BSA/PL - 1000MM - AL	1000mm/39.37in	111.4mm/4.39in	98.8mm/3.89in	4.2mm/0.17in	10



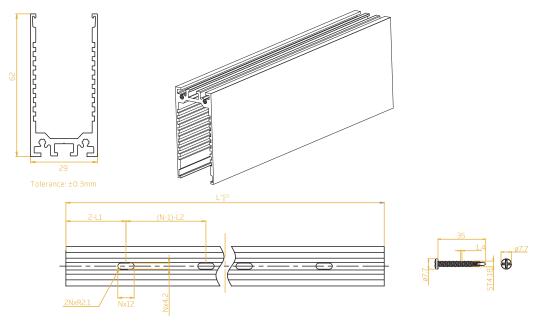


MOUNTING PROFILES

Surface-mounted Raceway Aluminium Profile



Dimensions: mm



Note:

- 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" herbey stands for its corresponding "Hole Number" in the below table

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN - 1617 - SMR/PL - 500MM - AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4.5*12mm/0.18*0.471in	3
FXN - 1617 - SMR/PL - 1000MM - AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4.5*12mm/0.18*0.471in	5
FXN - 1617 - SMR/PL - 2000MM- AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4.5*12mm/0.18*0.471in	10

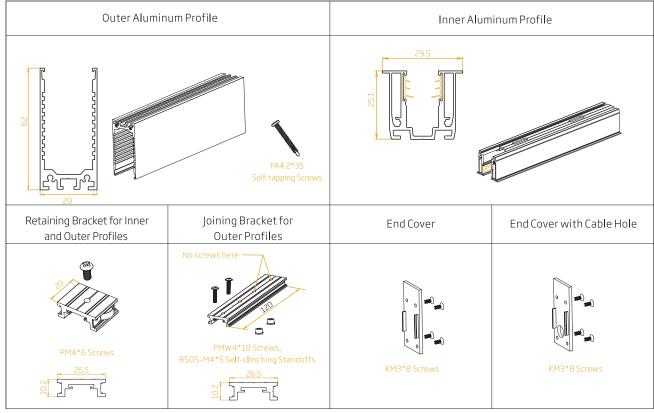




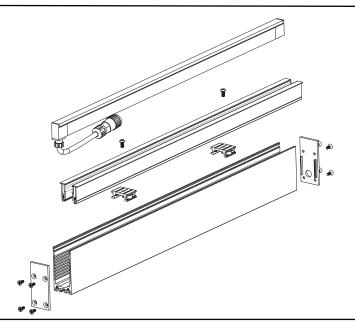
MOUNTING PROFILES

Surface-mounted Raceway Aluminium Profile

Main Components



Exploded View

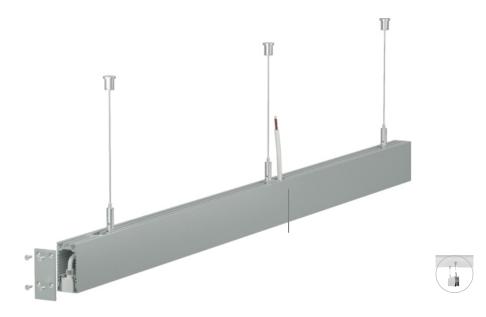




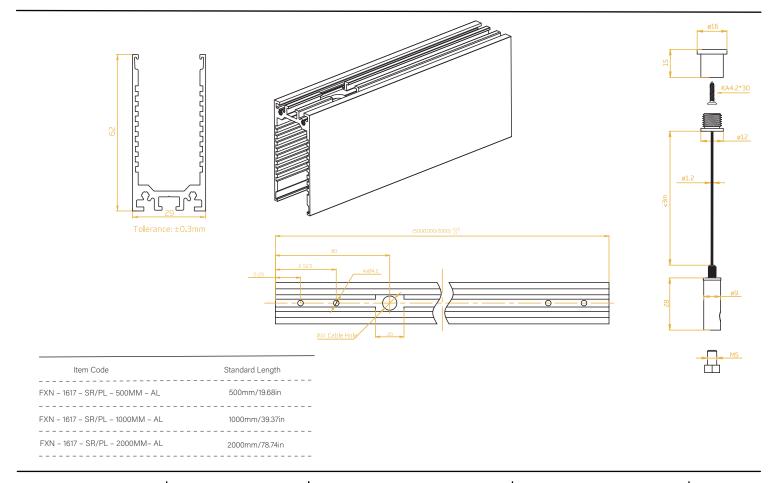


MOUNTING PROFILES

Suspended Raceway Aluminium Profile



Dimensions: mm





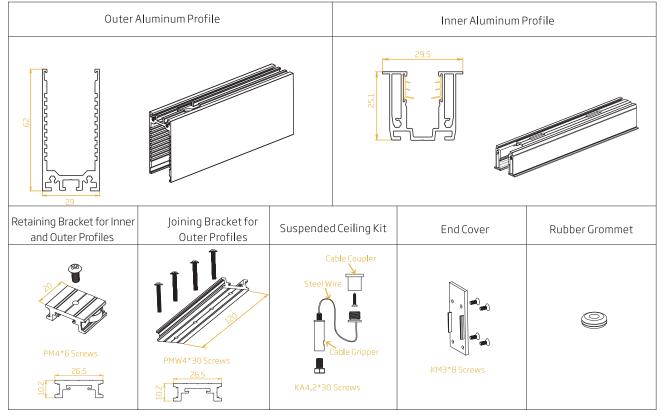
LED CTRL, 1/483 BALMAIN LILYFIELD, NSW 2040, AUSTRALIA



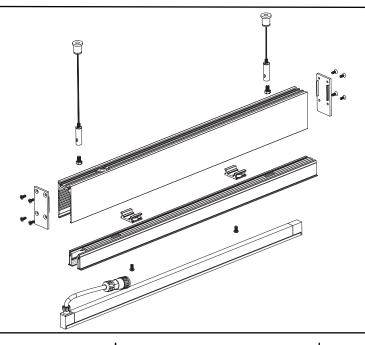
MOUNTING PROFILES

Surface-mounted Raceway Aluminium Profile

Main Components



Exploded View







Bendable Anole Profile





Clamping Force











Kids Friendly

Solvents Resistant

Saltwater Resistant

UV Resistant

Flame Resistant

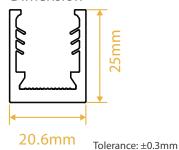
FXN - 1617 - BA/PL - 55MM - A FXN - 1617 - BA/PL - 110MM - A FXN - 1617 - BA/PL - 200MM - A FXN - 1617 - BA/PL - 500MM - A FXN - 1617 - BA/PL - 1000MM - A

APPEARANCE COLOR





Dimension



Standard Length

55mm, 110mm, 200mm, 500mm, 1000mm

Installation Methods















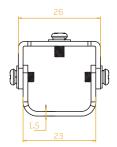


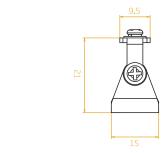
BRACKETS

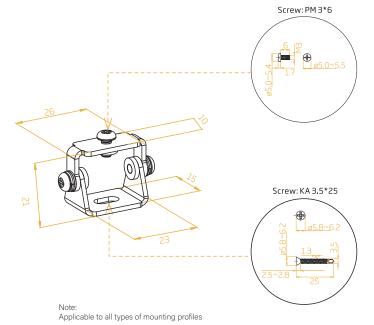
Pivot Mounting Bracket



Item Code: FXN - 1617 - B - PM









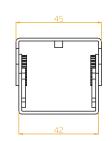


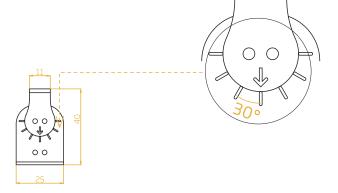
BRACKETS

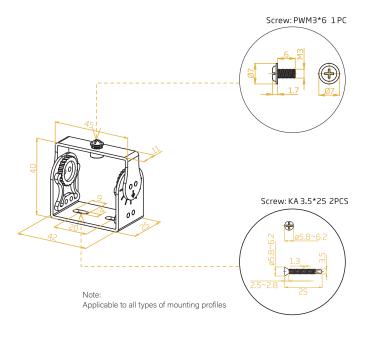
Rotary Locking Bracket













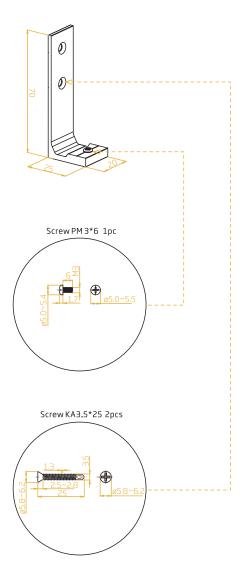


BRACKETS

Side Mounting Brakcet



Item Code: FXN - 1617 - B - SM





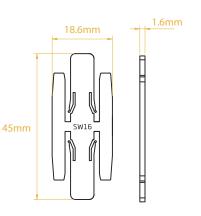
Note: Applicable to all types of mounting profiles





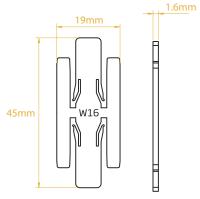
BRACKETS

Joining Bracket



Note: Applicable to serrated aluminium profile.

Item Code: FXN - 1617 - B - J



Note: Applicable to aluminium profile.



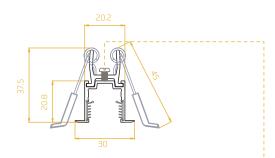


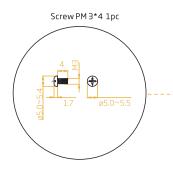
CLIPS

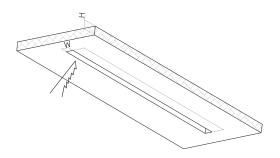
Ceiling Mounting Clip



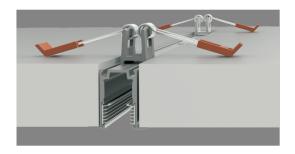
Item Code: FXN - 1617 - C - CM







The width applicable to FXN 1121: 17≈20mm The thickness of ceiling: 5≈50mm

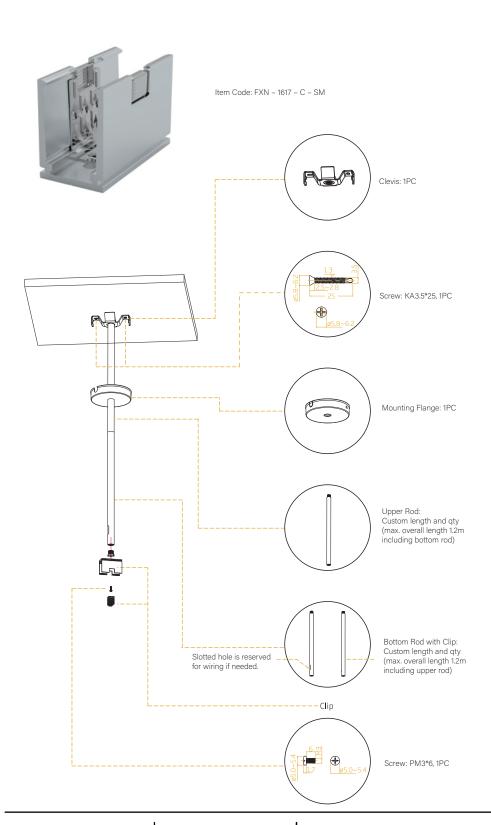


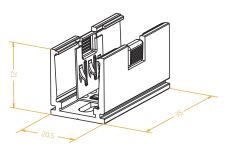
Note: Only applicable to flanged serrated aluminium profile.



CLIPS

Suspended Mounting Clip

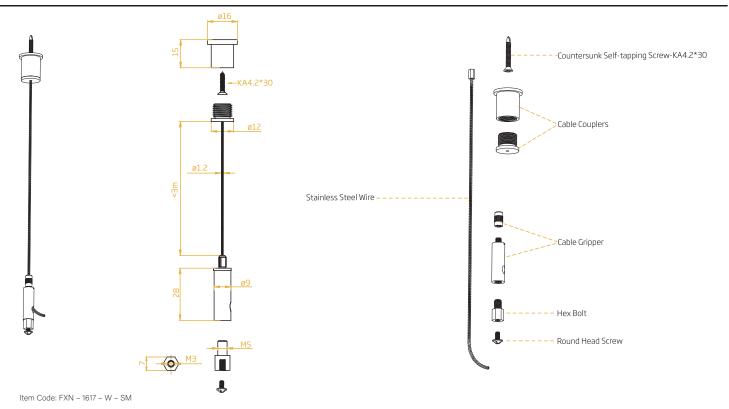






WIRE

Suspended Mounting Wire



Applicable to serrated aluminium profile.
2 sets of stainless stell wires are offered to pair with

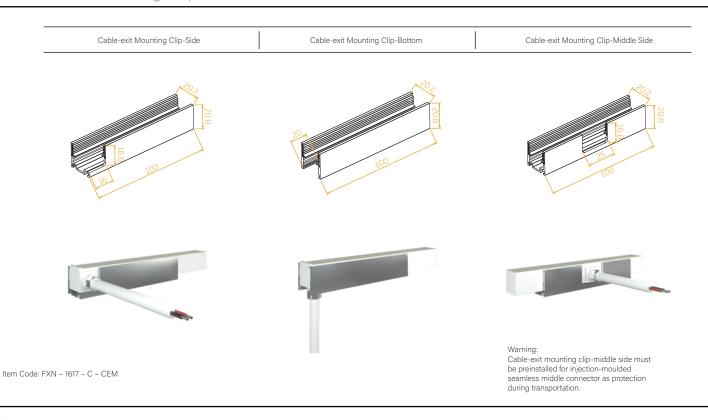
- 1 piece of 1m serrated aluminium profile.
 3 sets of stainless steel wires are offered to pair with 1 piece of 2m serrated aluminium profile.





FXN 1617 FI

Cable-exit Mounting Clip



- Applicable to single-layer injection-moulded connector with side, or bottom cable entry, whose size can be matched exactly.

 Allow the cable to exit from gap loosely without over-bending and protect the cable joint from the damage of excessively external force in the process of installation. 10cm/piece, combines with other lengths of mounting profiles to fit the equivalent ligth length.