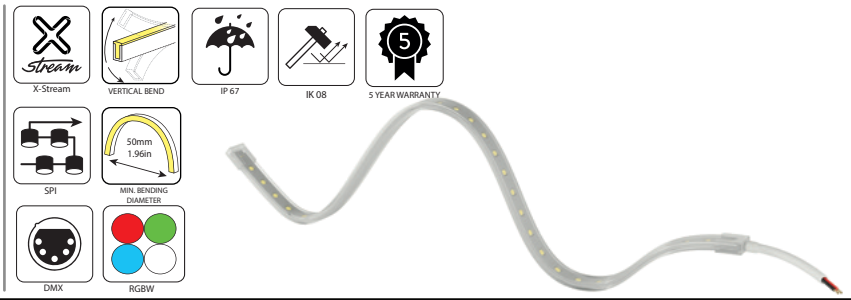


## FXN 156 FLEXIBLE NEON

The FXN 156 is a high-performance flexible LED lighting solution for architectural and commercial applications. With vibrant RGBW output and a durable, bendable design, it seamlessly integrates into dynamic lighting projects.

Made from silicone, the FXN 156 is engineered for reliability with IP67 water resistance.

Easy to install and built to last, it deliver smooth, uniform illumination for bold and versatile lighting designs.




### PART NUMBER CONFIGURATOR

| Prefix | Model | LED Colour  | White CCT   | Control                            | Bending Direction | Power                            | Voltage     | CRI            | Connectors  |
|--------|-------|---|---|------------------------------------|-------------------|----------------------------------|-------------|----------------|---|
| FXN    | 156   | R – Red<br>G – Green<br>B – Blue<br>A – Amber<br>RGB<br>RGBW<br>W – White (22K-65K)<br>DW – Dynamic White (22K-65K) | 22K – 2200K<br>27K – 2700K<br>30K – 3000K<br>35K – 3500K<br>40K – 4000K<br>57K – 5700K<br>65K – 6500K | D – DMX<br>S – SPI<br>X – X-Stream | VB – Verical Bend | 10 – 10W<br>12 – 12W<br>15 – 15W | 24 – 24V DC | 80<br>90<br>95 | SLC - Sleeve Connector<br>SNC - Snap Connector<br>SIMC - Silicone Injection-moulded Connector |

### SPECIFICATIONS

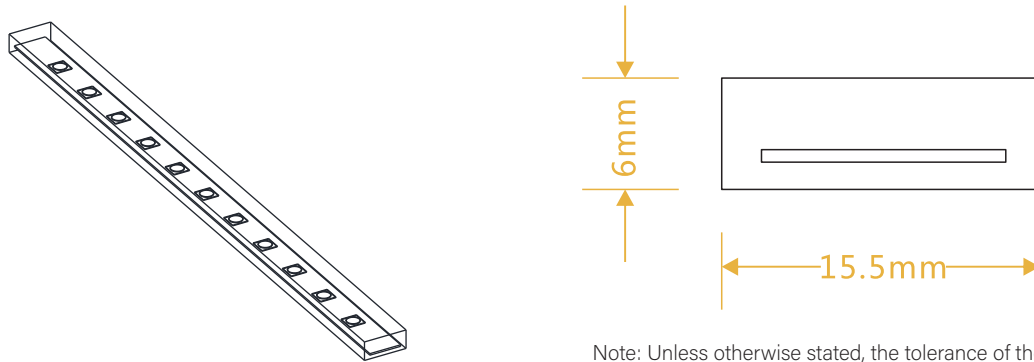
Example: FXN – 156 – RGBW – 65K – D – VB – 12 – 24 – 90 – SLC

|                                 |   |   |
|---------------------------------|---|---|
| Electrical                      | Power Consumption<br>Operating Voltage<br>Installation Temperature<br>Operating Temperature<br>Storage Temperature  | 10W/m (AW), 12W/m (R,G,B,A,W, RGB), 15W/m (RGBW)<br>24V DC<br>-40°C TO 50°C - (-40°F TO 122°F)<br>-40°C TO 55°C - (-40°F TO 131°F)<br>-40°C TO 60°C - (-40°F TO 140°F)  |
| Physical                        | Dimensions<br>Bending<br>Housing / Lens<br>Weight/m<br>IK Rating<br>IP Rating<br>Min. Cutting Unit<br>Min. Cutting Length<br>Min. Bending Diameter<br>Unit/m (Pixel Qty/m)<br>Connectors<br>Mounting Profiles | L: 1000mm – H: 6mm – W: 15.5mm<br>Vertical Bending<br>Silicone<br>129g<br>IK08<br>IP67<br>6LEDs(1unit)<br>125mm(1unit)<br>50mm<br>8 pixels<br>Sleeve Connector, Snap Connector, Silicone Injection-moulded<br>Transparent Covered Aluminium (H20/H13), Milky Covered Aluminium (H20/H13),<br>Suspension Kit, Surface-mounted Raceway Aluminium, Suspended Raceway Aluminium,<br>Aluminium Profile |
| Optical                         | Mounting Brackets<br>Data Maximum Run Length  | Pivot Mounting Bracket, Rotary Locking Bracket, Side Mounting Bracket, Joining Bracket<br>48m @ 8pixels/m – 6 universes   |
|                                 | Beam Angle<br>Colour Range<br><br>LED Qty/m<br>LED Type<br>LED Distance<br>Total Lumens   | 120°<br>R, G, B, A, W (2200K, 2700K, 3000K, 3500K, 4000K, 5700K, 6500K), RGB, RGBW,<br>Dynamic White (22K≈65K)<br>56LEDs<br>EPISTAR SMD LED<br>16.67mm<br><900lm/m  |
| Diming & Control                | Control Protocols<br>Dimming Resolution   | X-Stream: SPI protocol with data redundancy<br>Others – SPI, DMX  |
| Fixture Rating & Certifications | UL LISTED, CE<br>RoHS COMPLIANT   |      |
| Limited Warranty                | 5Years  | Extendable Warranty Available   |

## FXN 156 FLEXIBLE NEON

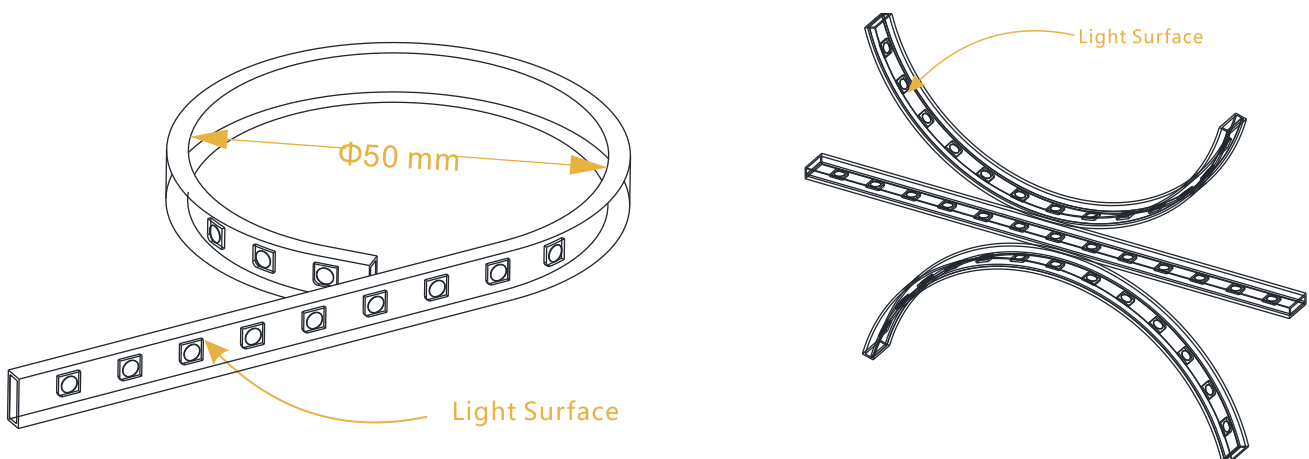
### DIMENSIONS & BENDING

#### Dimensions of Light



Note: Unless otherwise stated, the tolerance of the light is  $\pm 0.2\text{mm}$ .

#### Minimum Bending Diameter



The light can only be bent along the light surface.

Do not bend smaller than allowed minimum bend diameter.

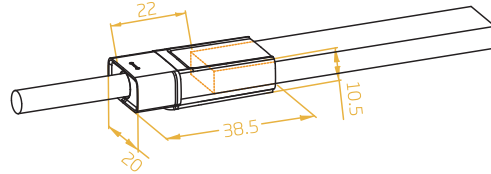
## FXN 156 FLEXIBLE NEON CONNECTORS

### Sleeve Connector IP40

#### Sleeve Front Connector-End



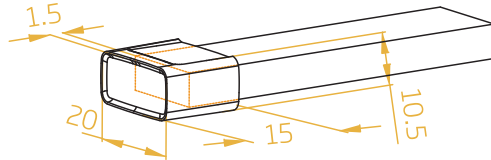
FXN – 156 – C – SL – FE



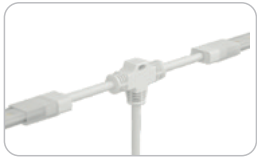
#### Sleeve End Cap



FXN – 156 – C – SL – EC

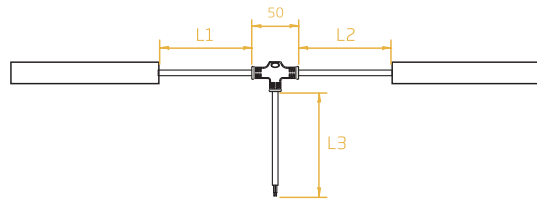


#### Sleeve Middle Connector & Power T-feed



FXN – 156 – C – SL – 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 the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

### Male & Female Connector

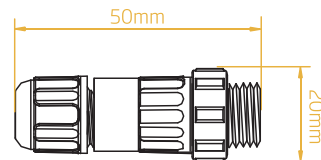


For plug and play cable junction, IP67.

FXN – 156 – MC / FXN – 156 – FC

Note:

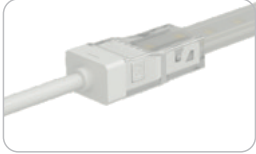
Unless otherwise stated, the tolerance is  $\pm 2\text{mm}$ .



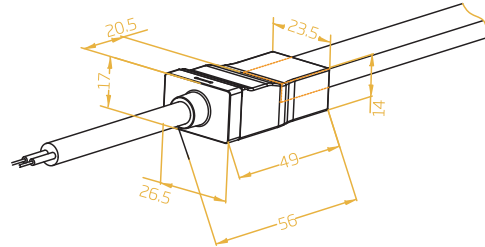
## FXN 156 FLEXIBLE NEON CONNECTORS

### Snap Connector IP67

#### Snap Front Connector-End



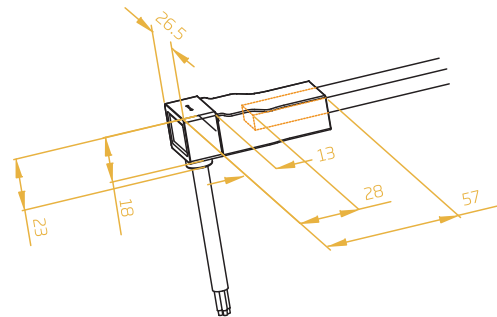
FXN - 156 - C - SN - FE



#### Snap Front Connector-Side



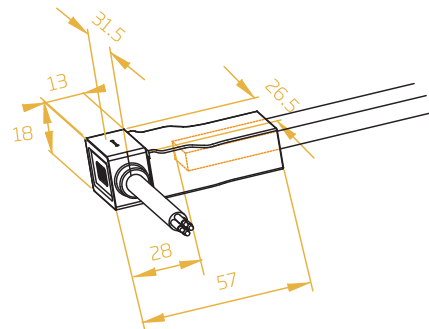
FXN - 156 - C - SN - FS



#### Snap Front Connector-Bottom



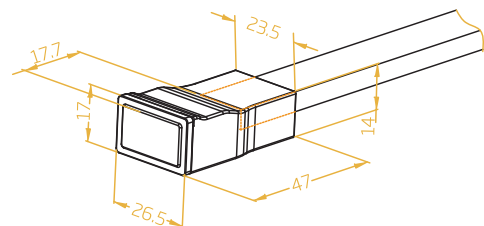
FXN - 156 - C - SN - FB



#### Snap End Cap



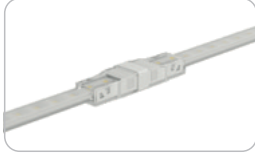
FXN - 156 - C - SN - EC



## FXN 156 FLEXIBLE NEON CONNECTORS

### Snap Connector IP67

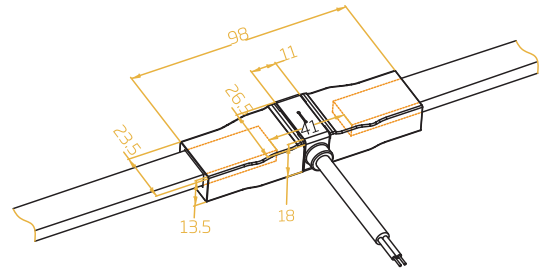
#### Snap Middle Connector / Snap Middle Connector & Power Feed



FXN - 156 - C - SN - MC



FXN - 156 - C - SN - MC - PF

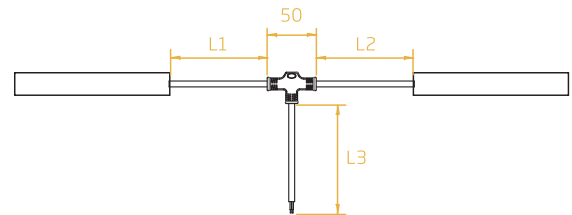


#### Snap Middle Connector & Power T-feed



FXN - 156 - C - SN - TF

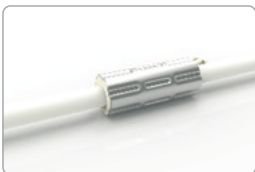
L1 and L2 available in 300mm.  
L3 available in 300mm/1000mm/3000mm.



Note:

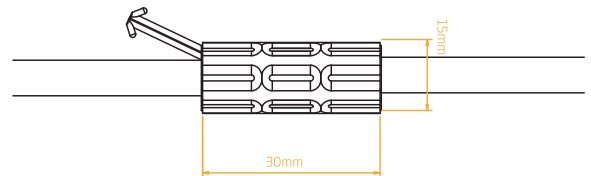
1. Unless otherwise stated, the tolerance of the connector is  $\pm 0.5\text{mm}$ .
2. To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

### Anti-wicking Ferrule



The anti-wicking ferrule is located at 115mm ( $\pm 10\text{mm}$  tolerance) from the connector on the cable.

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



Note:

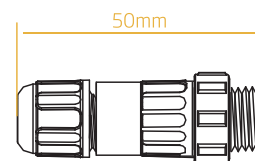
1. Unless otherwise stated, the tolerance is  $\pm 0.5\text{mm}$ .
2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.

### Male & Female Connector



For plug and play cable junction, IP67.

FXN - 156 - MC / FXN - 156 - FC



Note:

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

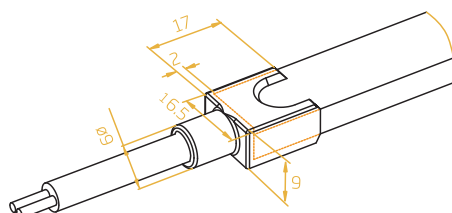
## FXN 156 FLEXIBLE NEON CONNECTORS

Silicone Injection-moulded Connector IP67

### Silicone Injection-moulded Front Connector-End



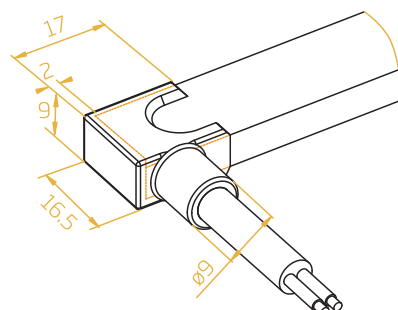
FXN - 156 - C - S - IM - FE



### Silicone Injection-moulded Front Connector-Side



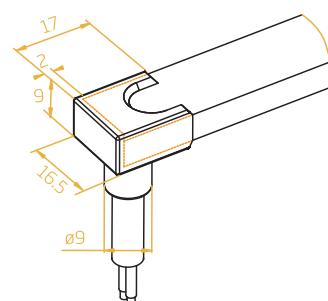
FXN - 156 - C - S - IM - FS



### Silicone Injection-moulded Front Connector-Bottom



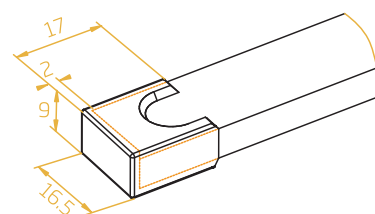
FXN - 156 - C - S - IM - FB



### Silicone Injection-moulded End Cap



FXN - 156 - C - S - IM - EC



## FXN 156 FLEXIBLE NEON CONNECTORS

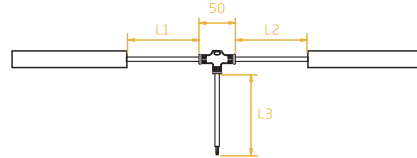
### Silicone Injection-moulded Connector IP67

#### Silicone Injection-moulded Middle Connector & Power T-feed



FXN – 156 – C – S – IM – TF

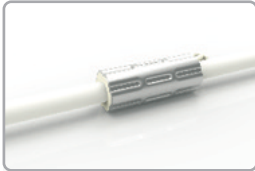
L1 and L2 available in 300mm.  
L3 available in 300mm/1000mm/3000mm.



Note:

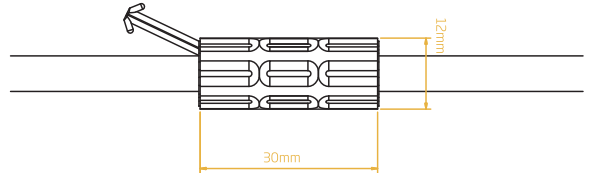
1. Unless otherwise stated, the tolerance of the connector is  $\pm 0.5\text{mm}$ .
2. To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

#### Anti-wicking Ferrule



The anti-wicking ferrule is located at 115mm ( $\pm 10\text{mm}$  tolerance) from the connector on the cable.

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



Note:

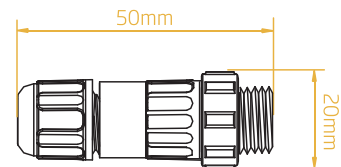
1. Unless otherwise stated, the tolerance is  $\pm 0.5\text{mm}$ .
2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.

#### Male & Female Connector



For plug and play cable junction, IP67.

FXN – 156 – MC / FXN – 156 – FC



Note:

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

FXN 156

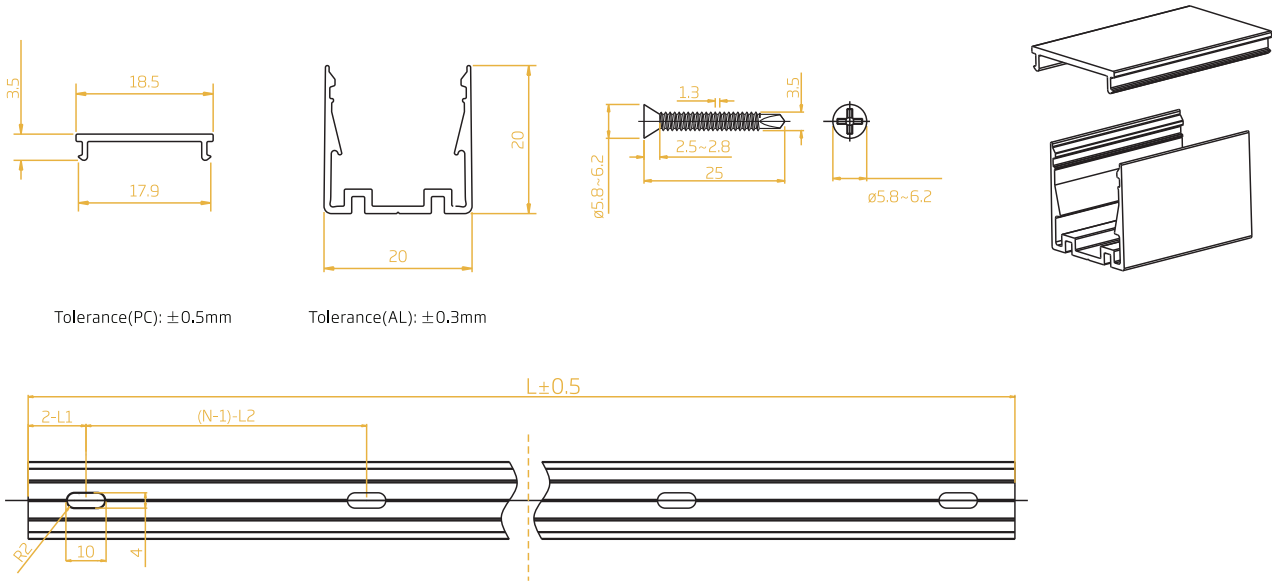
FLEXIBLE NEON

MOUNTING PROFILES

Transparent Covered Aluminium Profile H20



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

| Item Code                        | Standard Length | L1           | L2           | Slotted Hole       | Hole Number |
|----------------------------------|-----------------|--------------|--------------|--------------------|-------------|
| FXN - 156 - TA/PL - H20 - 500MM  | 500mm/19.68in   | 50mm/1.97in  | 200mm/7.87in | 4*10mm/0.16*0.39in | 3           |
| FXN - 156 - TA/PL - H20 - 1000MM | 1000mm/39.37in  | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 5           |
| FXN - 156 - TA/PL - H20 - 2000MM | 2000mm/78.74in  | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 10          |



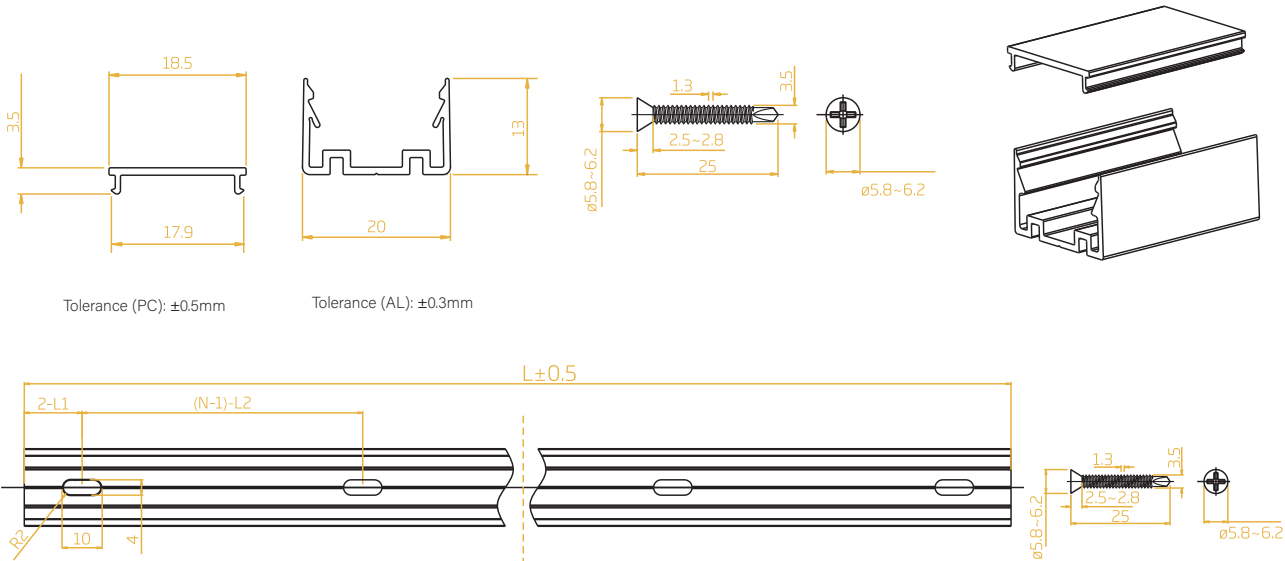
FXN 156 FLEXIBLE NEON  
MOUNTING PROFILES

Transparent Covered Aluminium Profile H13

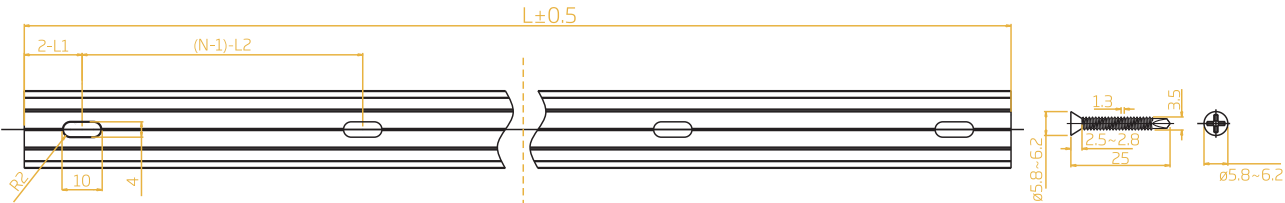


Note: PC1 refer to Transparent PC; PC2 refers to Milky PC

Dimensions: mm



Tolerance (PC): ±0.5mm      Tolerance (AL): ±0.3mm



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

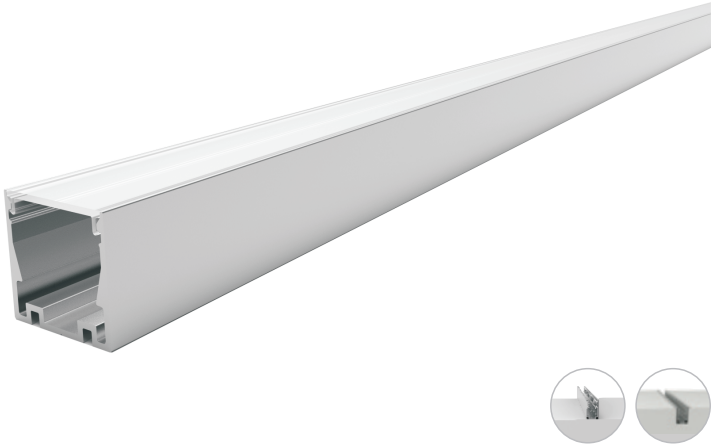
| Item Code                       | Standard Length | L1           | L2           | Slotted Hole       | Hole Number |
|---------------------------------|-----------------|--------------|--------------|--------------------|-------------|
| FXN - 156 - TA/PL - H13- 500MM  | 500mm/19.68in   | 50mm/1.97in  | 200mm/7.87in | 4*10mm/0.16*0.39in | 3           |
| FXN - 156 - TA/PL - H13- 1000MM | 1000mm/39.37in  | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 5           |
| FXN - 156 - TA/PL - H13- 2000MM | 2000mm/78.74in  | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 10          |

FXN 156

FLEXIBLE NEON

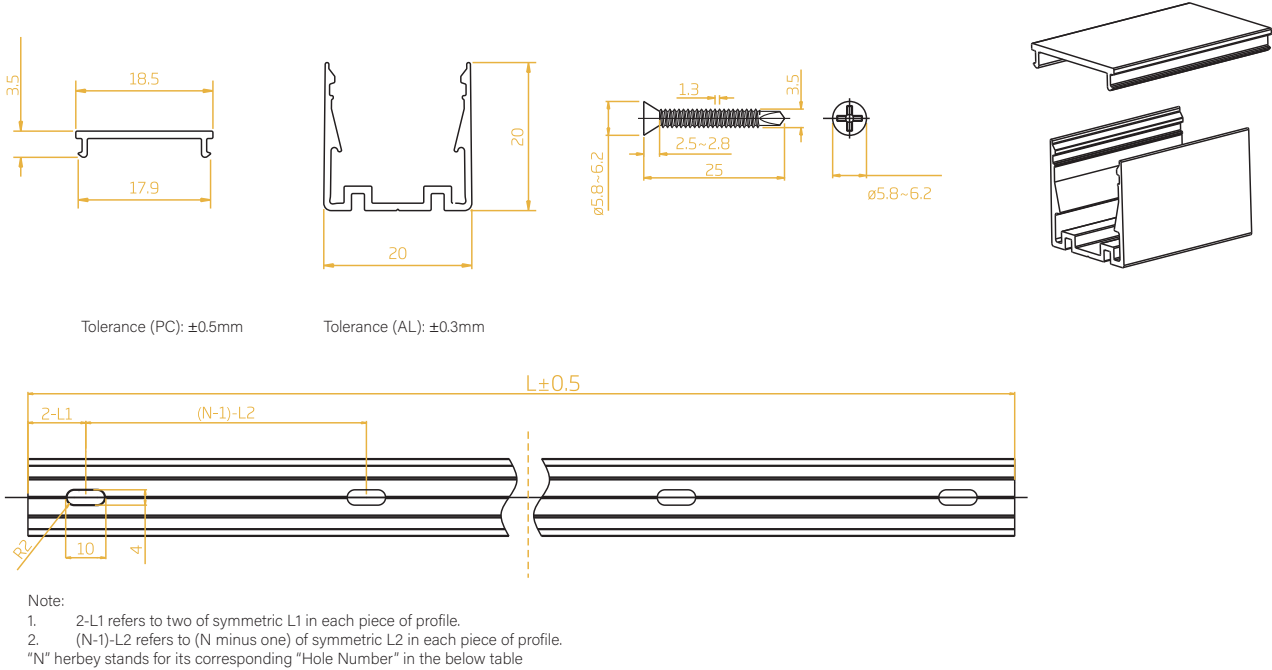
MOUNTING PROFILES

Milky Covered Aluminium Profile H20



Note: PC1 refer to Transparent PC; PC2 refers to Milky PC

Dimensions: mm



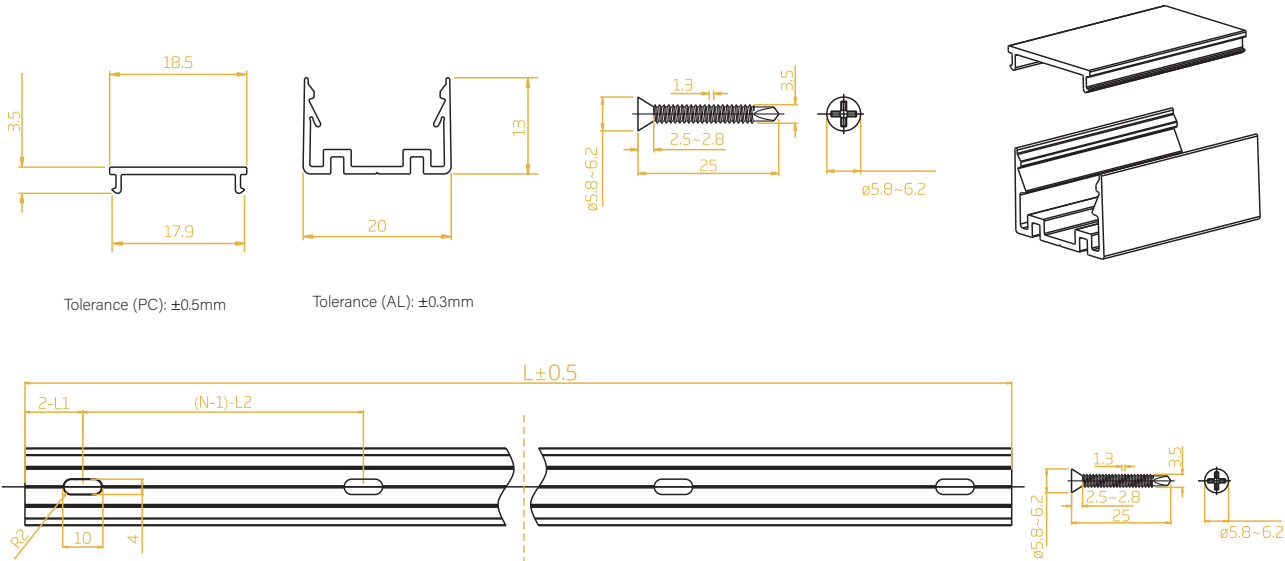
FXN 156 FLEXIBLE NEON  
MOUNTING PROFILES

Milky Covered Aluminium Profile H13



Note: PC1 refer to Transparent PC; PC2 refers to Milky PC

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

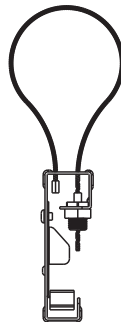
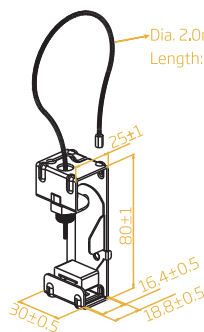
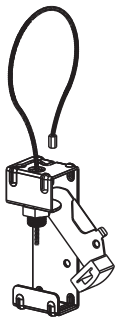
| Item Code                       | Standard Length | L1           | L2           | Slotted Hole       | Hole Number |
|---------------------------------|-----------------|--------------|--------------|--------------------|-------------|
| FXN - 156 - MI/PL - H13- 500MM  | 500mm/19.68in   | 50mm/1.97in  | 200mm/7.87in | 4*10mm/0.16*0.39in | 3           |
| FXN - 156 - MI/PL - H13- 1000MM | 1000mm/39.37in  | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 5           |
| FXN - 156 - MI/PL - H13- 2000MM | 2000mm/78.74in  | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 10          |

## FXN 156 FLEXIBLE NEON MOUNTING PROFILES

### Suspension Kit

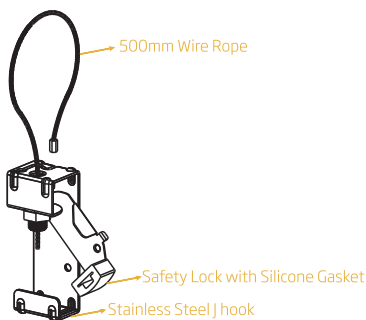


Dimensions: mm



Item Code: FXN – 156 – S/KT

### Main Components

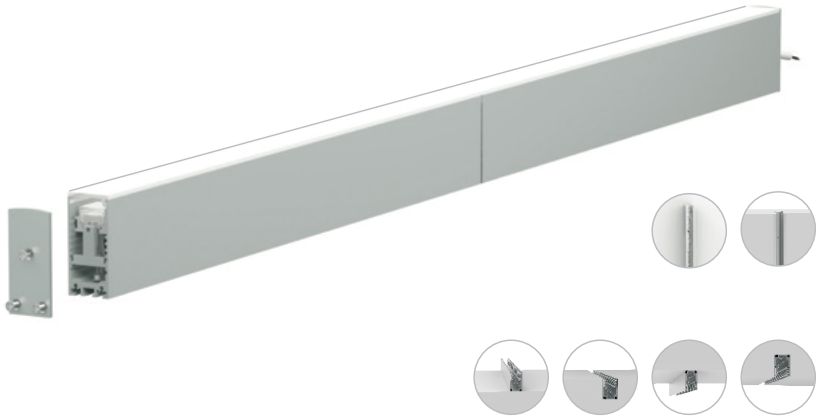


FXN 156

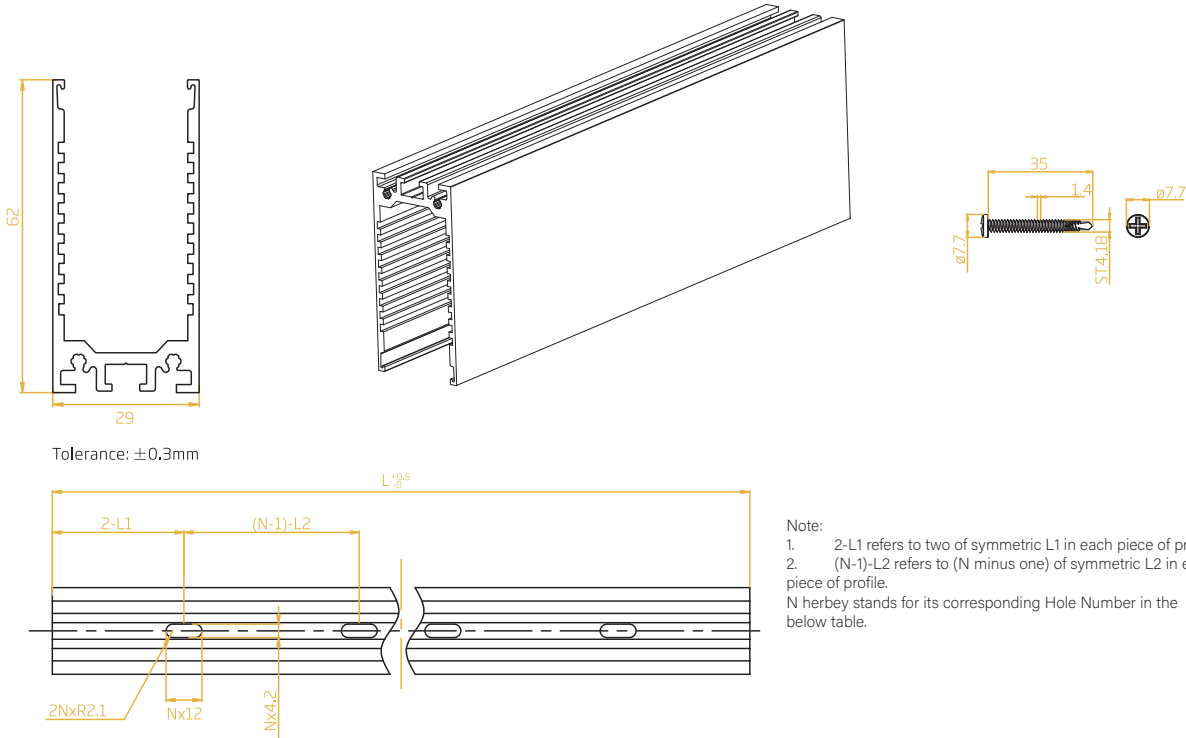
FLEXIBLE NEON

MOUNTING PROFILES

Surface-mounted Raceway Aluminium Profile



Dimensions: mm

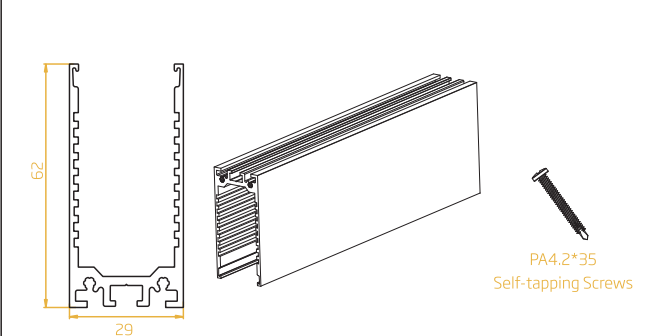
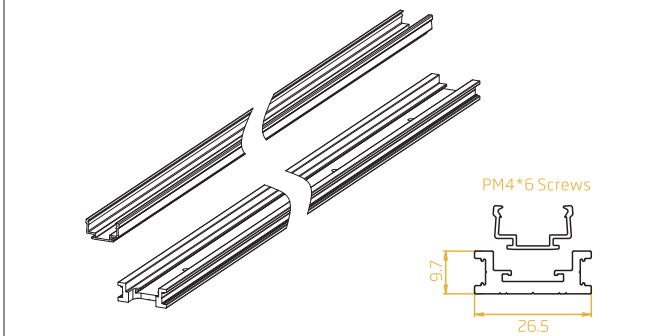
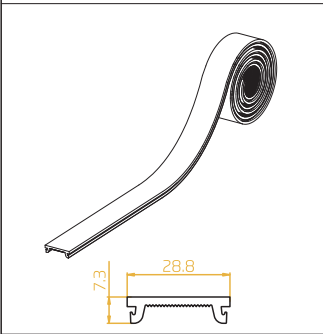
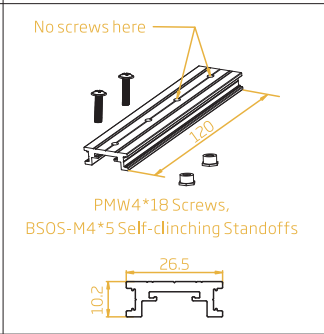
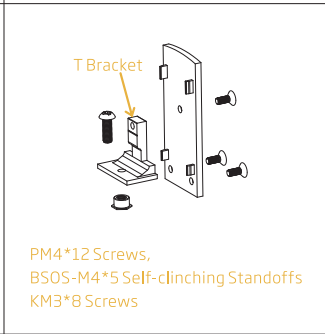
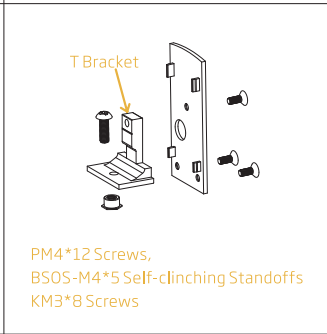


| Item Code                        | Standard Length | L1           | L2           | Slotted Hole         | Hole Number |
|----------------------------------|-----------------|--------------|--------------|----------------------|-------------|
| FXN - 156 - SMR/PL - 500MM - AL  | 500mm/19.68in   | 50mm/1.97in  | 200mm/7.87in | 4.5*12mm/0.18*0.47in | 3           |
| FXN - 156 - SMR/PL - 1000MM - AL | 1000mm/39.37in  | 100mm/3.93in | 200mm/7.87in | 4.5*12mm/0.18*0.47in | 5           |
| FXN - 156 - SMR/PL - 2000MM - AL | 2000mm/78.74in  | 100mm/3.93in | 200mm/7.87in | 4.5*12mm/0.18*0.47in | 10          |

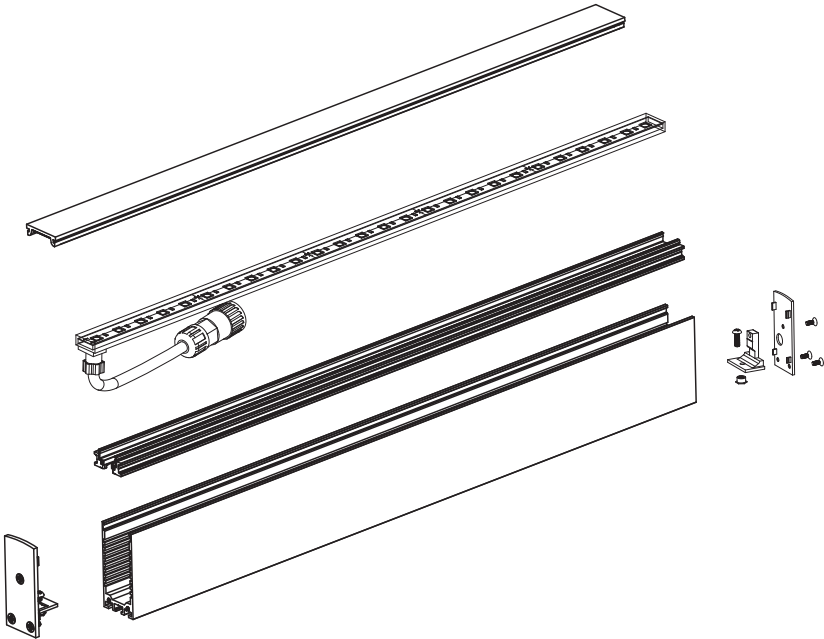
FXN 156 FLEXIBLE NEON  
MOUNTING PROFILES

Surface-mounted Raceway Aluminium Profile

Main Components

| Outer Aluminum Profile   |  | Inner Hybrid Profile (aluminum+plastic)   |  |
|--|--|---|--|
|   |  |   |  |
| Silicone Cover   | Joining Bracket for Outer Profiles   | End Cover   | End Cover with Cable Hole  |
|  |  |  |  |

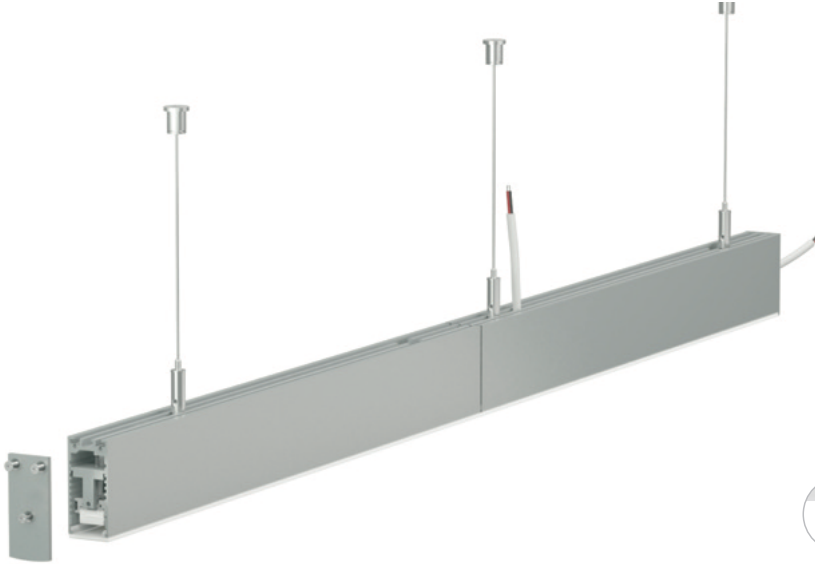
Exploded View



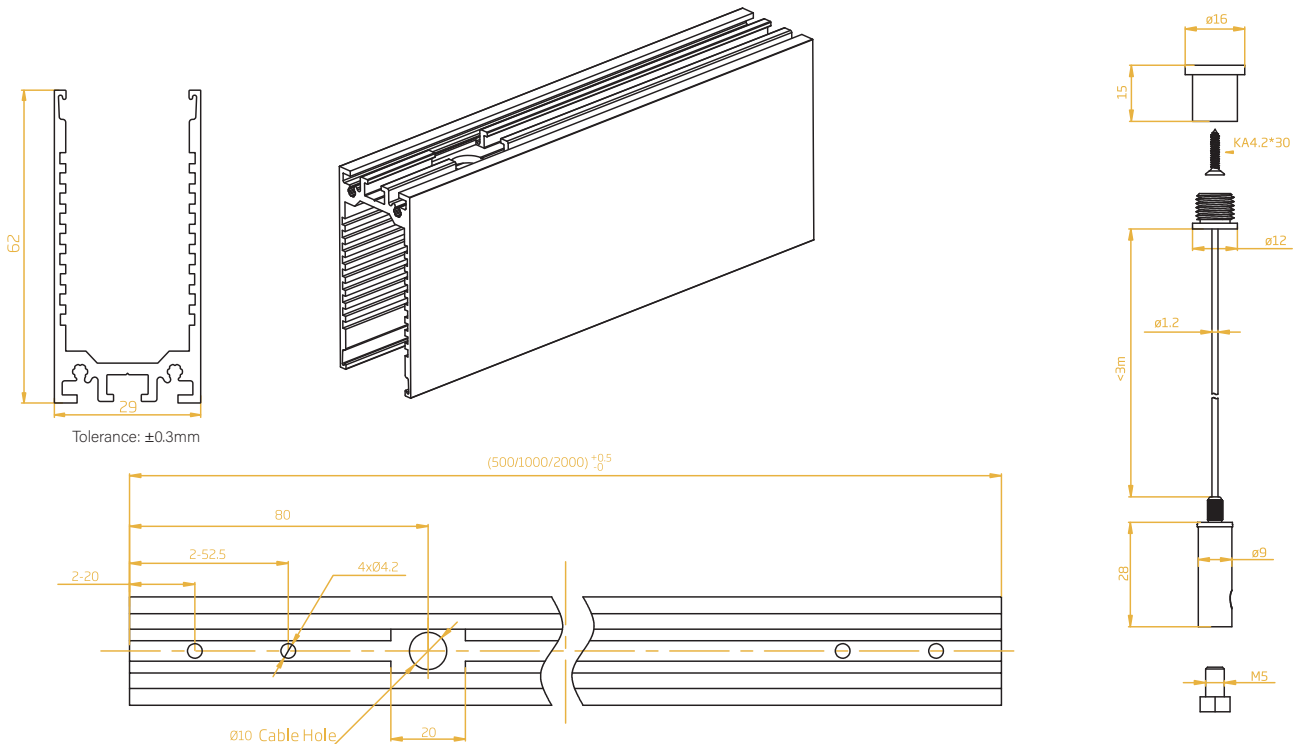
# FXN 156 | FLEXIBLE NEON

## MOUNTING PROFILES

## Suspended Raceway Aluminium Profile



Dimensions: mm

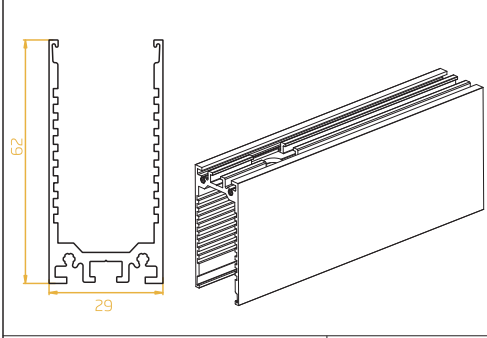
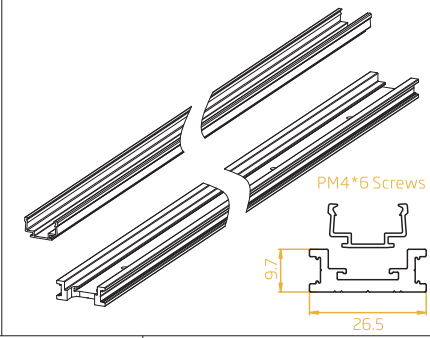
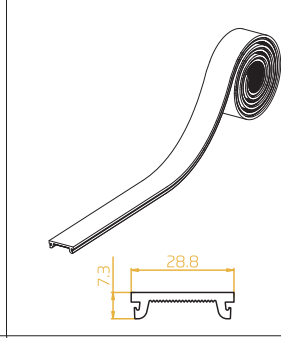
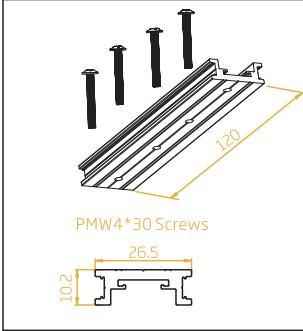
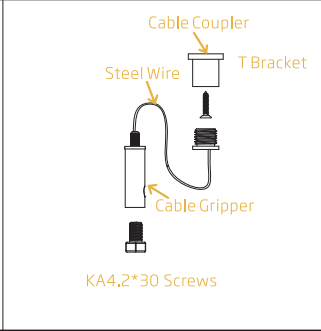
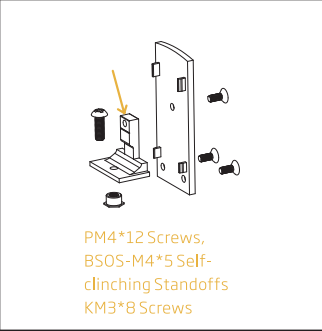
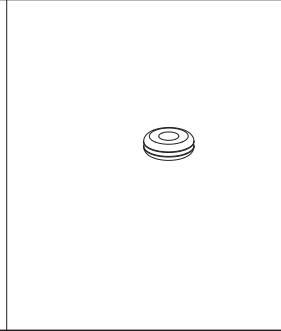


| Item Code                       | Standard Length |
|---------------------------------|-----------------|
| FXN – 156 – SR/PL – 500MM – AL  | 500mm/19.68in   |
| FXN – 156 – SR/PL – 1000MM – AL | 1000mm/39.37in  |
| FXN – 156 – SR/PL – 2000MM – AL | 2000mm/78.74in  |

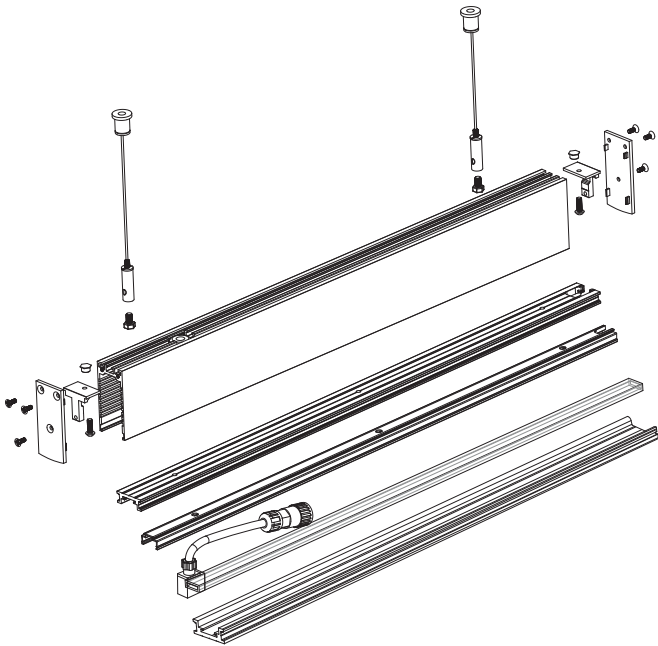
FXN 156 FLEXIBLE NEON  
MOUNTING PROFILES

Suspended Raceway Aluminium Profile

Main Components

|  |  |  |  |  |  |
|--|--|--|--|--|--|
| Outer Aluminum Profile   |  | Inner Hybrid Profile<br>(aluminum+plastic)   |  | Silicone Cover   |  |
|   |  |  |  |   |  |
| Joining Bracket for<br>Outer Profiles  |  | Suspended Ceiling Kit  |  | End Cover  |  |
|  |  |  |  |   |  |
|  |  |  |  | Rubber Grommet   |  |
|  |  |  |  |  |  |

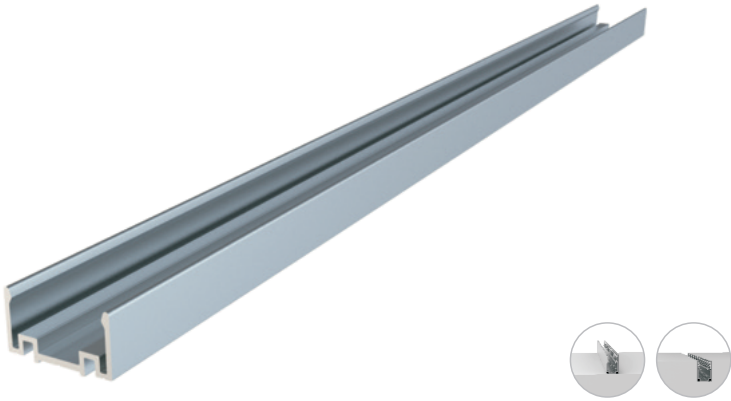
Exploded View



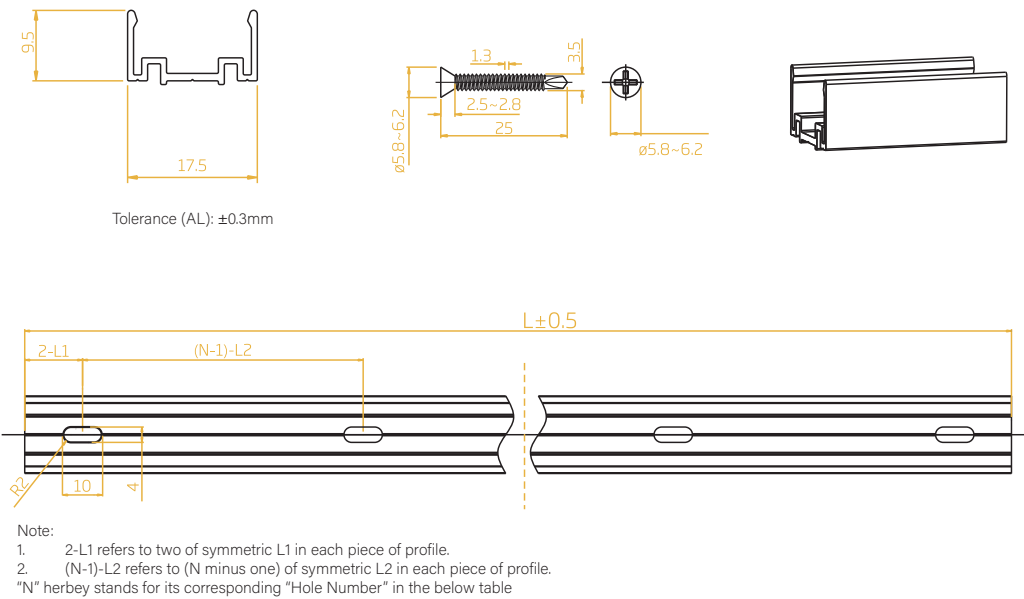


FXN 156 | FLEXIBLE NEON  
MOUNTING PROFILES

Aluminium Profile



Dimensions: mm



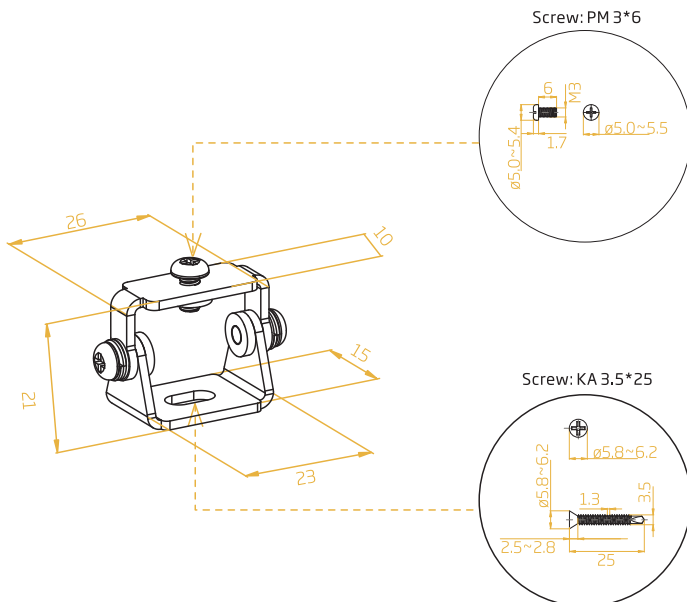
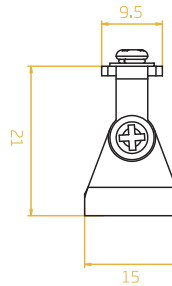
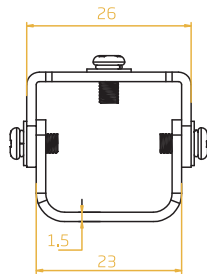
| Item Code                      | Standard Length | L1            | L2           | Slotted Hole       | Hole Number |
|--------------------------------|-----------------|---------------|--------------|--------------------|-------------|
| FXN - 156 - A/PL - 35MM - AL   | 35mm/1.38in     | 17.5mm/1.97in | /            | 4*10mm/0.16*0.39in | 1           |
| FXN - 156 - A/PL - 500MM - AL  | 500mm/19.68in   | 50mm/3.93in   | 200mm/7.87in | 4*10mm/0.16*0.39in | 3           |
| FXN - 156 - A/PL - 1000MM - AL | 1000mm/39.37in  | 100mm/3.93in  | 200mm/7.87in | 4*10mm/0.16*0.39in | 5           |
| FXN - 156 - A/PL - 2000MM - AL | 2000mm/78.74in  | 100mm/3.93in  | 200mm/7.87in | 4*10mm/0.16*0.39in | 10          |

## FXN 156 | FLEXIBLE NEON BRACKETS

### Pivot Mounting Bracket



Item Code: FXN - 156 - B - PM

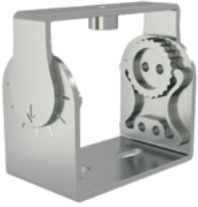


Note:  
Applicable to all types of mounting profiles

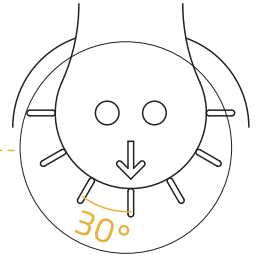
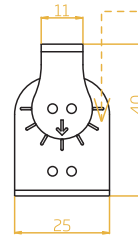
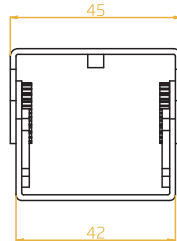


## FXN 156 | FLEXIBLE NEON BRACKETS

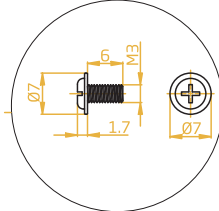
### Rotary Locking Bracket



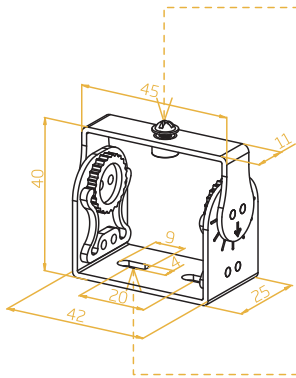
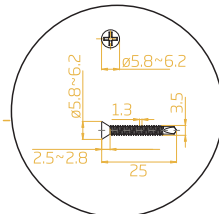
Item Code: FXN - 156 - B - RL



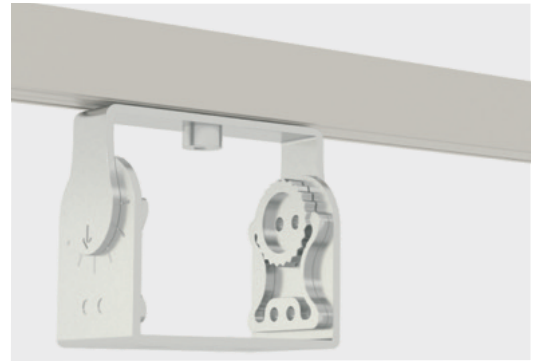
Screw: PWM3\*6 1 PC



Screw: KA 3.5\*25 2PCS



Note:  
Applicable to all types of mounting profiles

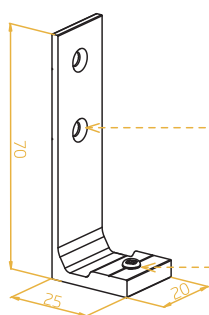


## FXN 156 | FLEXIBLE NEON BRACKETS

### Side Mounting Brakcet

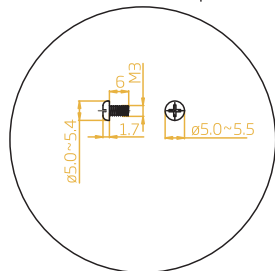


Item Code: FXN - 156 - B - SM

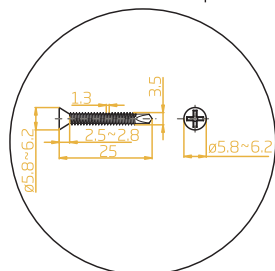


Note:  
Applicable to all types of mounting profiles

Screw PM 3\*6 1pc



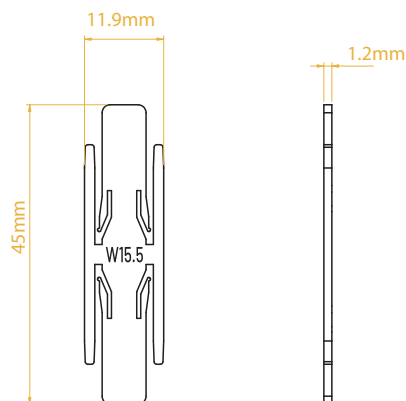
Screw KA3.5\*25 2pcs



## FXN 156 | FLEXIBLE NEON BRACKETS

### Joining Bracket

Item Code: FXN - 156 - B - J



Note: Applicable to serrated aluminium profile and aluminium profile.

