# FXN 1129|FLEXIBLE NEON

The FXN 1129 is a versatile, flexible LED lighting solution for architectural and commercial applications. With vibrant RGBW output and a durable, bendable design, it adapts seamlessly to creative lighting projects.

Made from silicone, the FXN 1129 offers IP67 water resistance and IK08 impact protection for long-lasting reliability.

Its flexible installation options and even illumination make it ideal for dynamic and innovative lighting designs.
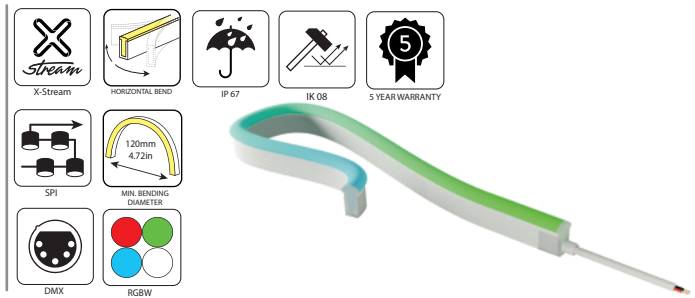
PART NUMBER CONFIGURATOR

Prefix	Model	LED Colour	WhiteCCT	Control	Bending Direction	Power	Voltage	LEDs Qty/m	Min. Cutting Length (mm)
FXN	1129	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 Bend	12 – 12W 15 – 15W	24 – 24V DC	60 – 60LEDs/m 120 – 120LEDs/m 280 – 280LEDs/m	166.7 – 166.7mm 100 – 100mm

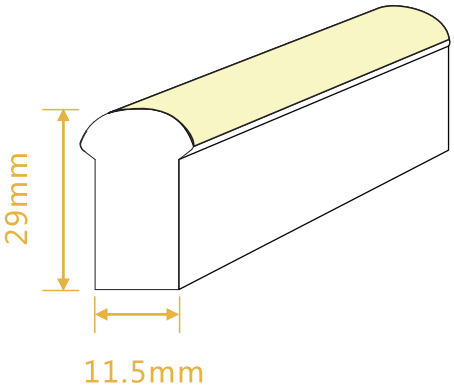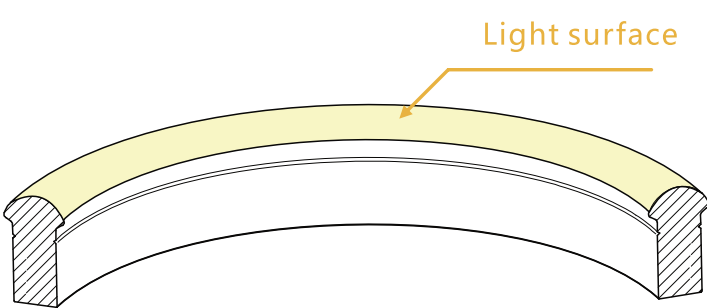Example: FXN – 1129 – RGBW – 22K – X – HB – 15 – 24 – 280 – 100

SPECIFICATIONS

Electrical	Power Consumption	12W/m (AW, RGB), 15W/m (R,G,B,A,W, RGBW, X-Stream)
	Operating Voltage	24V DC
	Installation Temperature	-40ºC TO 50ºC - (-40ºF TO 122ºF)
	Operating Temperature	-40ºC TO 55ºC - (-40ºF TO 131ºF)
	Storage Temperature	-40ºC TO 60ºC - (-40ºF TO 140ºF)
	Current (mA/m)	500.0 (DW, RGB), 625.0 (W, RGBW, X-Stream)
Physical	Dimensions	L: 1000mm – H: 29mm – W: 11.5mm
	Bending	Horoizontal Bending
	Housing / Lens	Silicone
	Weight/m	450g
	IK Rating	IK08
	IP Rating	IP67
	LEDs Qty/unit	10LED/unit (W, RGB, RGBW), 20 (10+10) LEDs/unit (DW), 28 (4*7) LEDs/unit (X-Stream)
	LEDs Qty/m	60LEDs/m (W, RGB, RGBW), 120LEDs/m (DW), 280LEDs/m (X-Stream)
	Min. Cutting Length	166.7mm(RGBW, RGB, DW, W), 100mm (X-Stream)
	Min. Bending Diameter	120mm
	Unit/m (Pixel Qty/m)	6pxl/m, 10pxl/m (X-Stream)
	Connectors	Swivel Connector, Sleeve Connector, Snap Connector, Socket Connector, Silicone Injection-moulded Connector, Dual Injection-moulded Connector
	Mounting Profiles	Aluminium Profile, Flange Aluminium Profile, Serrated Aluminium Profile, Flange Serrated Aluminium Profile, Thickened Plastic Profile, Bendable Serrated Aluminium Profile, Surface-mounted Raceway Aluminium Profile, Suspended Raceway Aluminium Profile
	Mounting Brackets	Pivot Mounting Bracket, Rotary Locking Bracket, Side Mounting Bracket, Joining Bracket
	Mounting Clips	Ceiling Mounting Clip, Suspended Mounting Clip, Cable-exit Mounting Clip
	Data Maximum Run Length	128m @ 6pixels/m – 6 universes / 76,8m @10pixels/m – 6 universes
Optical	Beam Angle	160º
	Colour Range	RGB, RGBW, White (2200K, 2700K, 3000K, 3500K, 4000K, 5700K), Dynamic White (22K-57K)
	LED Type	EPISTAR SMD LED
	LED Distance	16.67mm
	Total Lumens	<470lm/m
Diming & Control	Control Protocols	X-Stream: SPI protocol with data redundancy
	Dimming Resolution	Others – SPI, DMX
Fixture Rating & Certifications	UL LISTED, CE RoHs COMPLIANT	CE RoHS UL
Limited Warranty	5 Years	Extendable Warranty Available

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DIMENSIONS & BENDING
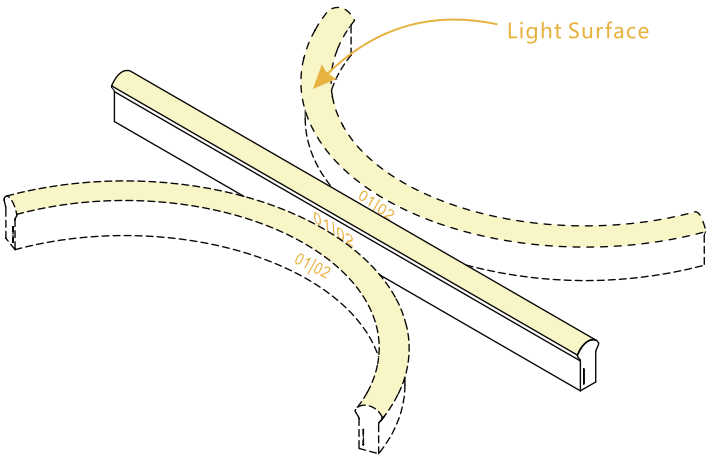
Dimensions of Light

Light surface

29mm

11.5mm

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

Minimum Bending Diameter

Light Surface

Φ120 mm

01|02
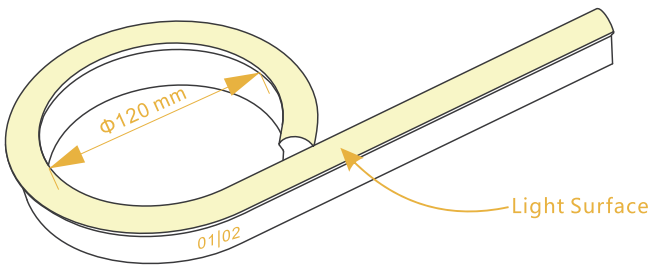
The light can only be bent laterally
(opposite bend along to light surface).

Light Surface

01|02

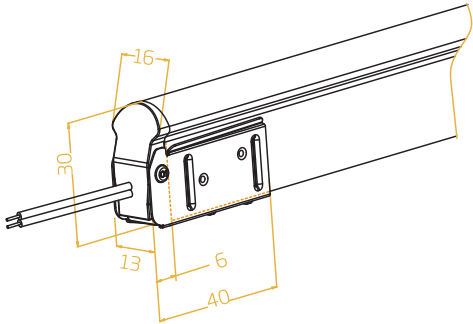Do not bend smaller than allowed minimum bend diameter.

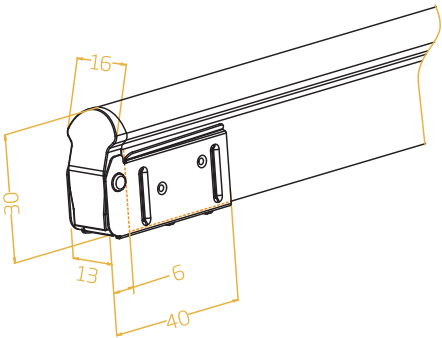# FXN 1129|FLEXIBLE NEON
CONNECTORS

Swivel Connector IP40

Swivel Front Connector

FXN – 1129 – C – SW – F

FXN – 1129 – C – SW – EC

Note:
1. Unless otherwise stated, the tolerance of the connector is ±0.5mm;
2. To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.
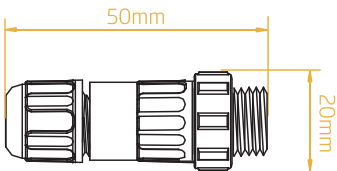
FXN 1129|FLEXIBLE NEON
CONNECTORS

Sleeve Connector IP40

Sleeve Front Connector-End

FXN – 1129 – C – SL – FE

43.5
27
33
17.5
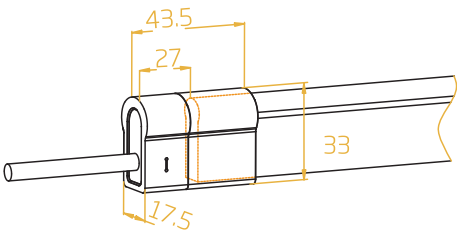
Sleeve End Cap

FXN – 1129 – C – SL – EC

20
1.5
33
17.5
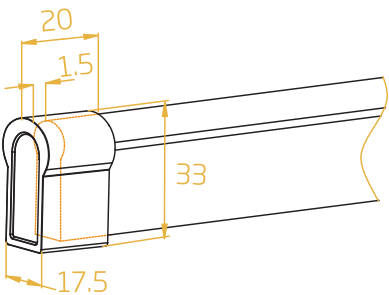
Sleeve Middle Connector & Power T-feed

FXN – 1129 – C – SL – TF

L1 and L2 available in 300mm.
L3 available in 300mm/1000mm/3000mm.
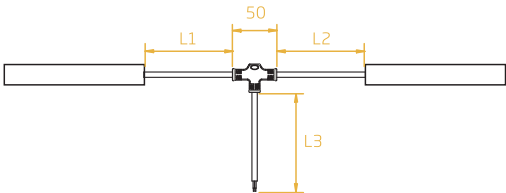
50
L1
L2
L3

Note:
1.   Unless otherwise stated, the tolerance of the connector is ±0.5mm;
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 – 1129 – MC / FXN – 1129 – FC

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

50mm
20mm

FXN 1129 | FLEXIBLE NEON
CONNECTORS

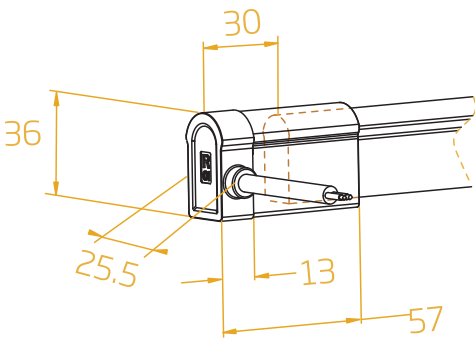Snap Connector IP67

Snap Front Connector-End
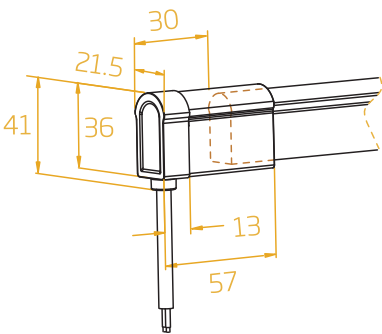
FXN – 1129 – C – SN – FE
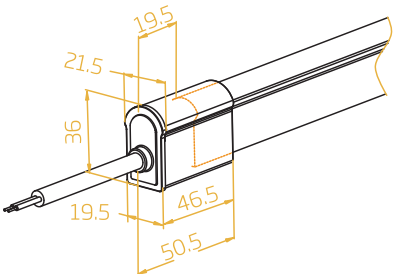
Snap Front Connector-Side

FXN – 1129 – C – SN – FS
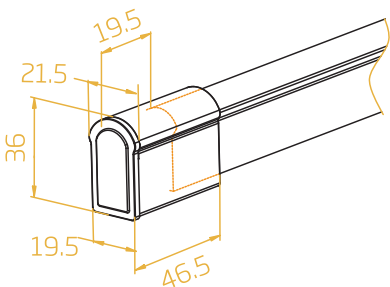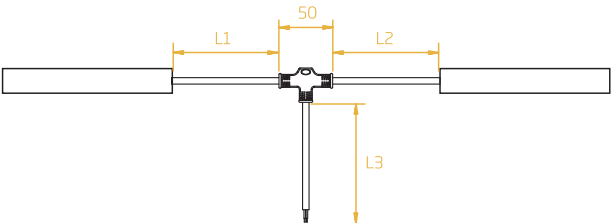
Snap Front Connector-Bottom

FXN – 1129 – C – SN – FB

Snap End Cap

FXN – 1129 – C – SN – EC

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CONNECTORS

Snap Connector IP67

Snap Middle Connector & Power T-feed

FXN – 1129 – C – SN – TF

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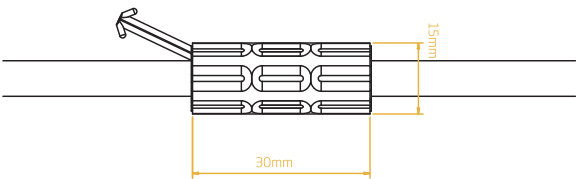L3 available in 300mm/1000mm/3000mm.

Note:
1. Unless otherwise stated, the tolerance of the connector is ±0.5mm;
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 (±10mm tolerance) from the connector on the cable.

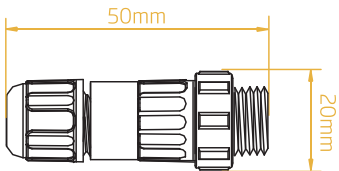For protection against water ingress from inside of cable wire and hence damage the light.

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

Male & Female Connector

For plug and play cable junction, IP67.

FXN – 1129 – MC / FXN – 1129 – FC

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

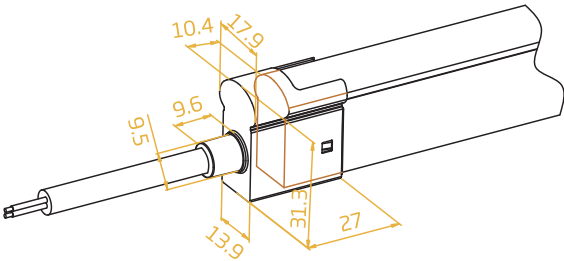# FXN 1129|FLEXIBLE NEON
CONNECTORS

Socket Connector IP67

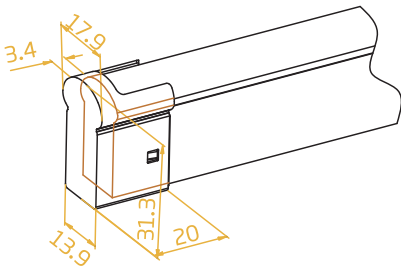#### Socket Front Connector

FXN – 1129 – C – SO – F

Snap Front Connector-Side

FXN – 1129 – C – SO – FS

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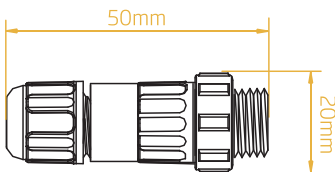1. Unless otherwise stated, the tolerance of the connector is ±0.5mm,
2. To avoid damage from the excesive force on cable joint, please keep at least 60mm of cable ahead in the natural state.
3. Please refer to the Installation Guide about how to assemble the socket connector.

Male & Female Connector

For plug and play cable junction, IP65.

FXN – 1129 – MC / FXN – 1129 – FC

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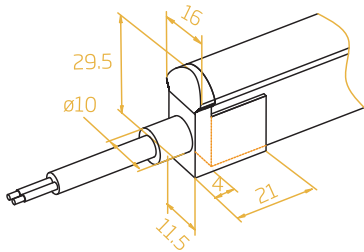Unless otherwise stated, the tolerance is ±2mm.

FXN 1129|FLEXIBLE NEON

CONNECTORS

Silicone Injection-moulded Connector IP68
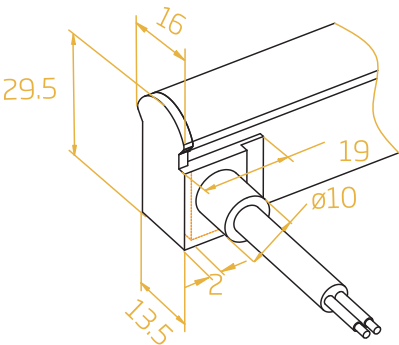
Silicone Injection-moulded Front Connector-End

FXN – 1129 – C – SIM – FE

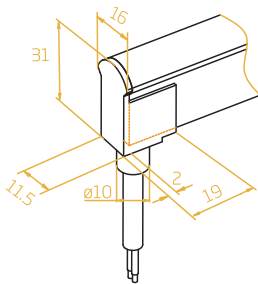### Silicone Injection-moulded Front Connector-Side

FXN – 1129 – C – SIM – FS

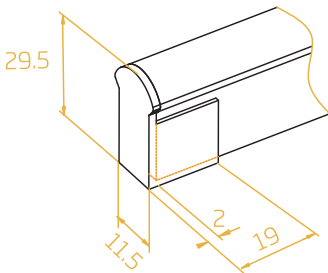### Silicone Injection-moulded Front Connector -Bottom

FXN – 1129 – C – SIM – FB

Silicone Injection-moulded End Cap

FXN – 1129 – C – SIM – EC
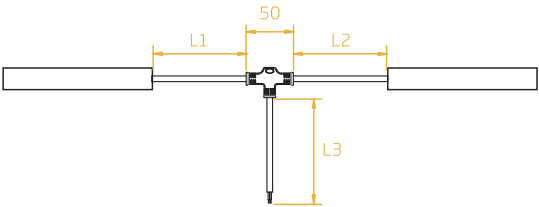
FXN 1129|FLEXIBLE NEON

CONNECTORS

Silicone Injection-moulded Connector IP68

Silicone Injection-moulded Middle Connector & Power T-Feed

FXN – 1129 – C – SIM – TF

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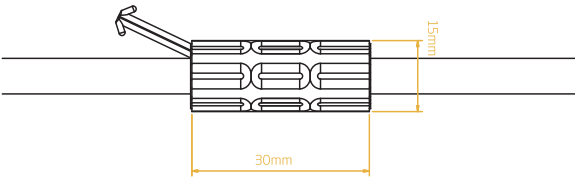L3 available in 300mm/1000mm/3000mm.

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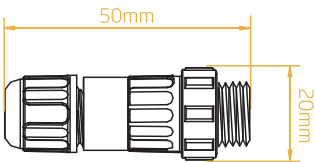1.   Unless otherwise stated, the tolerance is ±0.5mm.
2.   The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.

Male & Female Connector

For plug and play cable junction, IP67.

FXN – 1129 – MC / FXN – 1129 – FC

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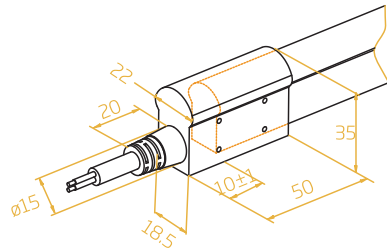Unless otherwise stated, the tolerance is ±2mm.

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CONNECTORS

Dual Injection-moulded Connector IP68
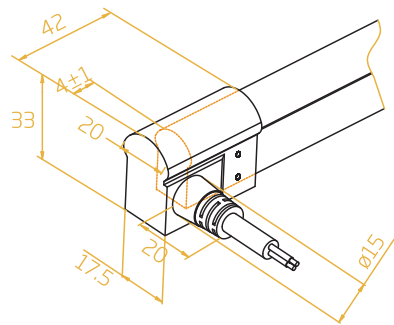
Dual Injection-moulded Front Connector-End

FXN – 1129 – C – DIM– FE

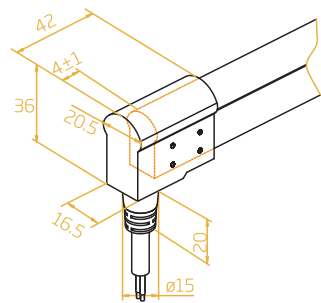Dual Injection-moulded Front Connector-Side

FXN – 1129 – C – DIM – FS
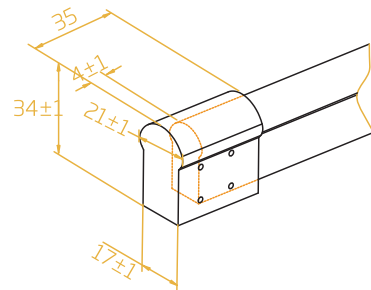
Dual Injection-moulded Front Connector-Bottom

FXN – 1129 – C – DIM – FB

Dual Injection-moulded End Cap

FXN – 1129 – C – DIM – EC
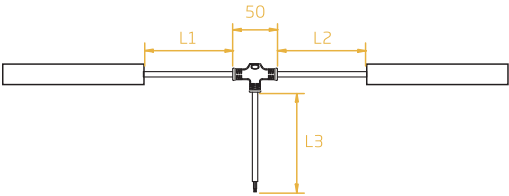
FXN 1129|FLEXIBLE NEON

CONNECTORS

Dual Injection-moulded Connector IP68

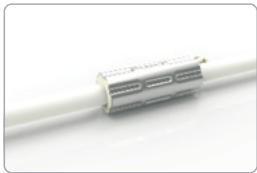## Dual Silicone Injection-moulded Middle Connector & Power T-Feed

FXN – 1129 – C – S – DIM – TF

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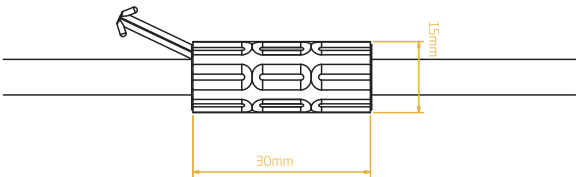L3 available in 300mm/1000mm/3000mm.

Note:
1. 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:
1. 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 – 1129 – MC / FXN – 1129 – FC

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

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11 | 30

FXN 1129|FLEXIBLE NEON
MOUNTING PROFILES

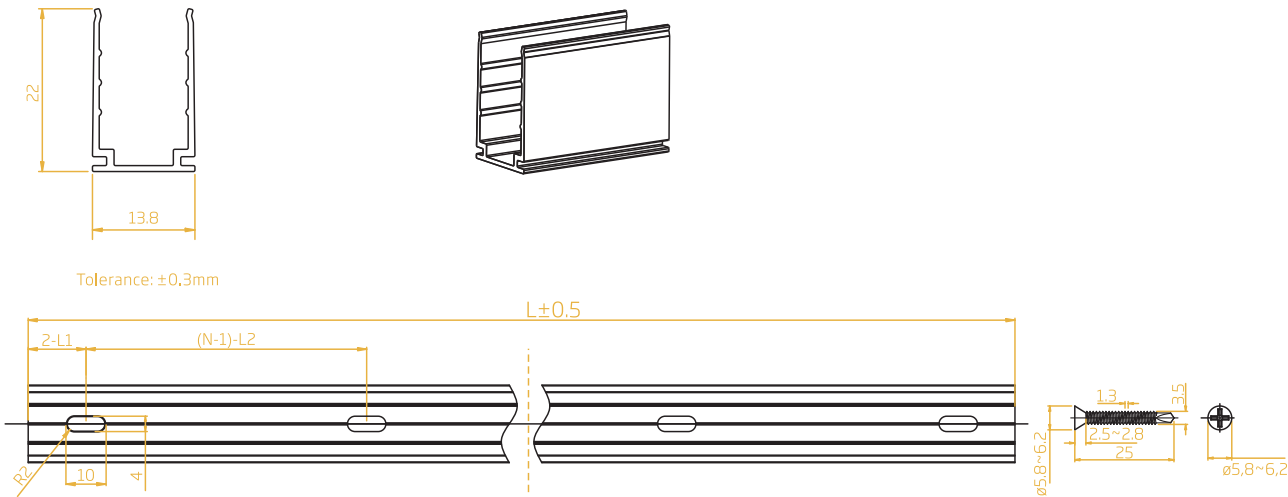Aluminium Profile

Dimensions: mm

22
13.8

Tolerance: ±0.3mm

L±0.5

2-L1   (N-1)-L2

R2   10   4

ø5,8~6,2   2,5~2,8   25   1,3   3,5   ø5,8~6,2

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

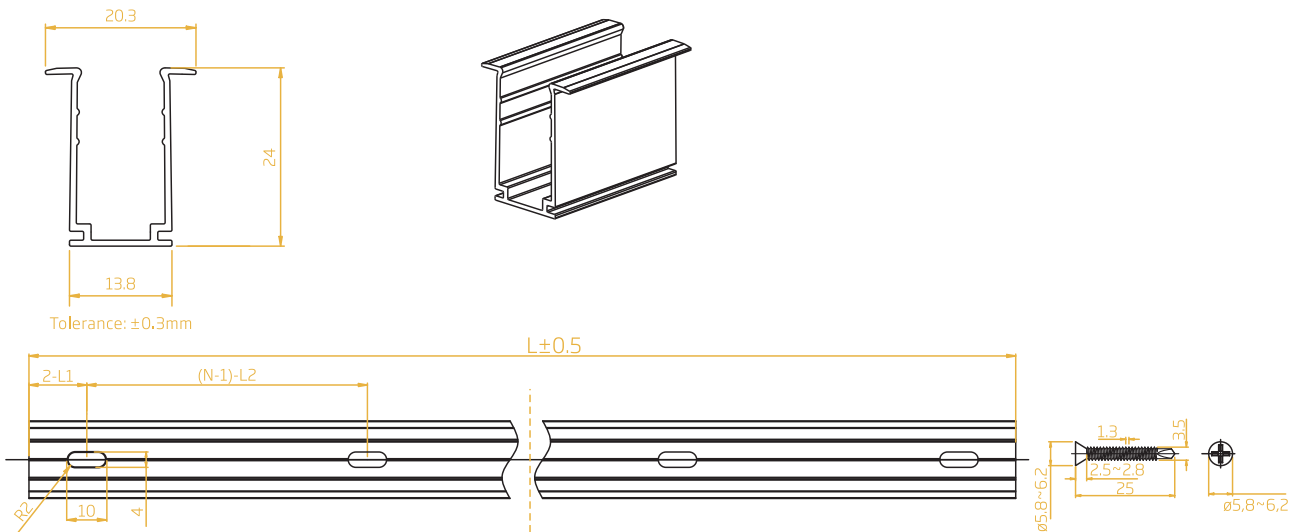| Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN – 1129 – A/PL – 35MM – AL	35mm/1.38in	17.5mm/0.69in	/	4*10mm/0.16*0.39in	1
FXN – 1129 – A/PL – 500MM – AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FXN – 1129 – A/PL – 1000MM– AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FXN – 1129 – A/PL – 2000MM– AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

FXN 1129|FLEXIBLE NEON

MOUNTING PROFILES

Flange Aluminium Profile

Dimensions: mm

20.3
24
13.8
Tolerance: ±0.3mm

L±0.5

2-L1   (N-1)-L2

R2   10   4

1.3   3.5
2.5~2.8
25
ø5.8~6.2   ø5.8~6,2

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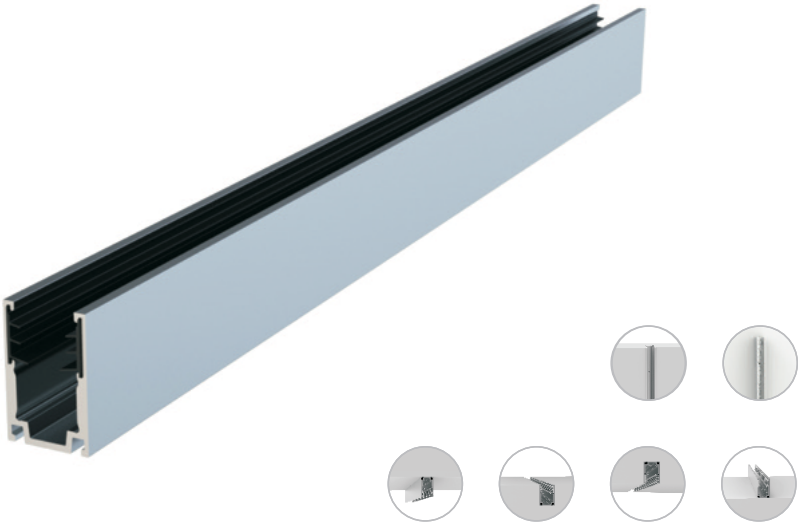"N" herbey stands for its corresponding "Hole Number" in the below table

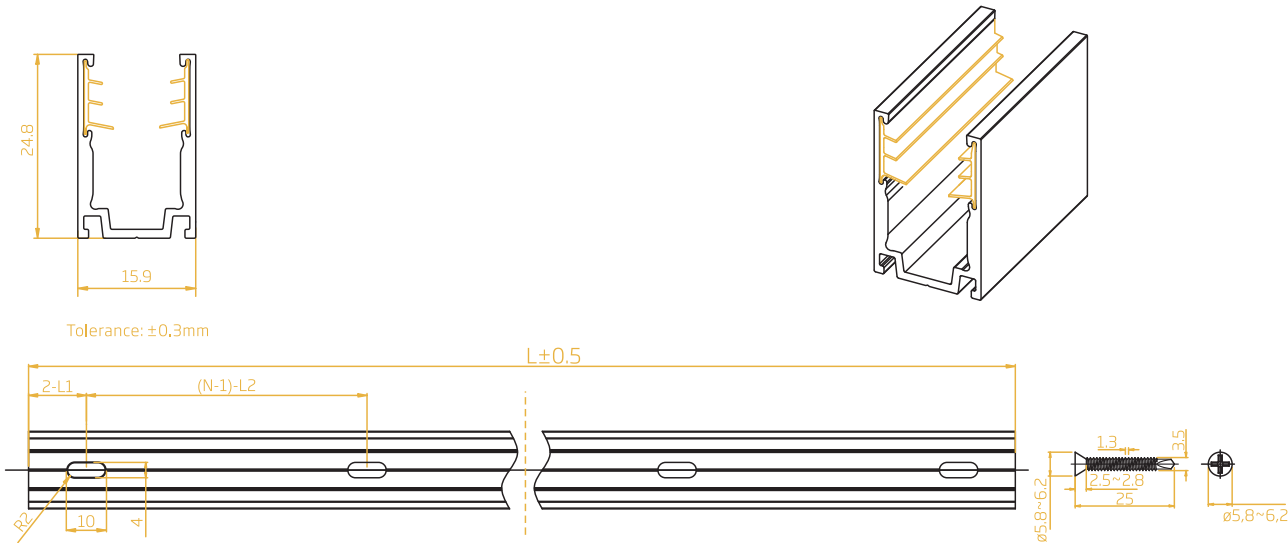| Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN – 1129 – FA/PL – 35MM – AL	35mm/1.38in	17.5mm/0.69in	/	4*10mm/0.16*0.39in	1
FXN – 1129 – FA/PL – 500MM – AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FXN – 1129 – FA/PL – 1000MM– AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FXN – 1129 – FA/PL – 2000MM– AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

FXN 1129|FLEXIBLE NEON
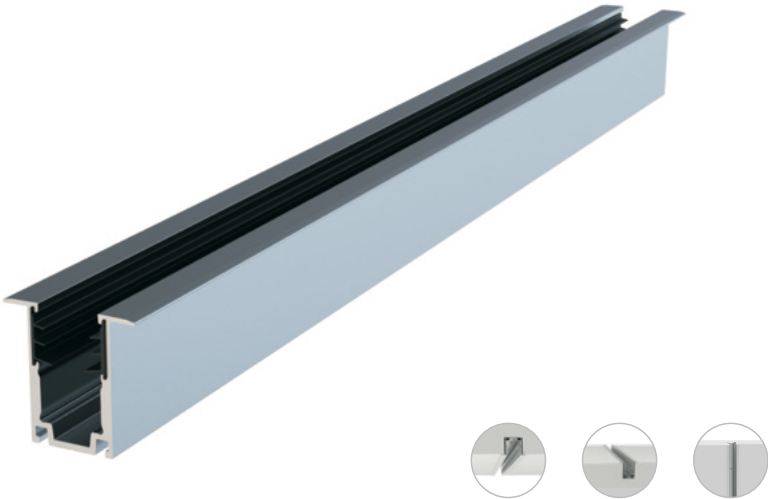# MOUNTING PROFILES

Serrated Aluminium Profile

Dimensions: mm

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

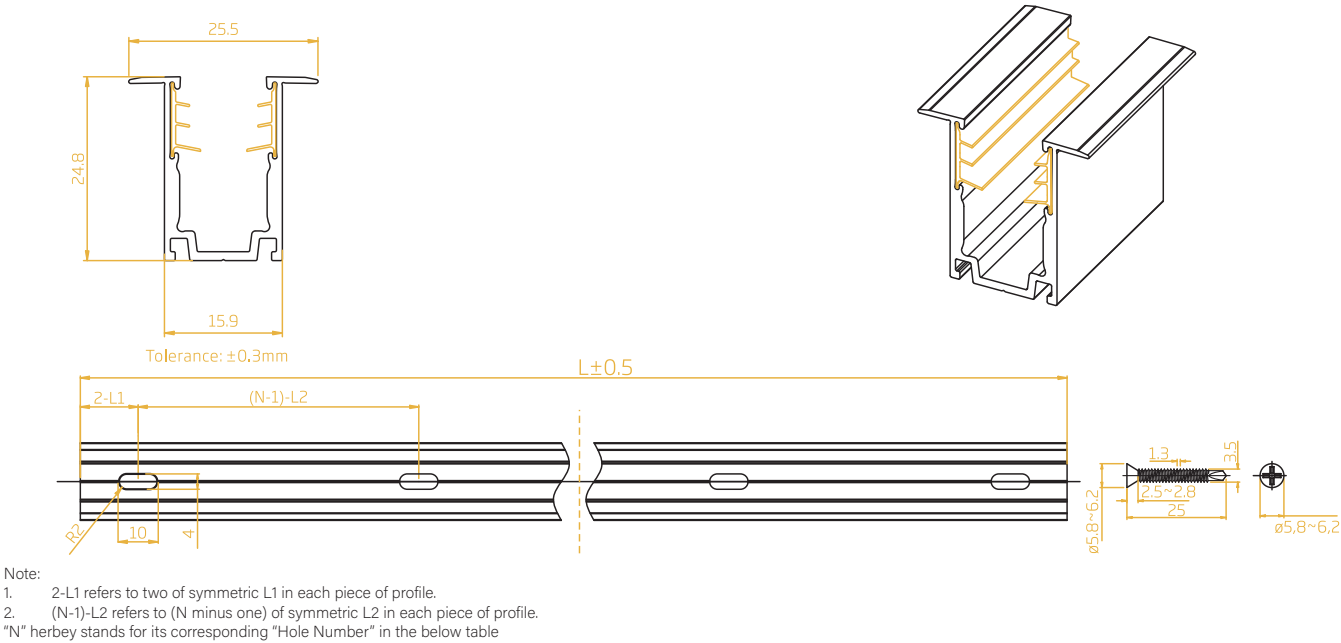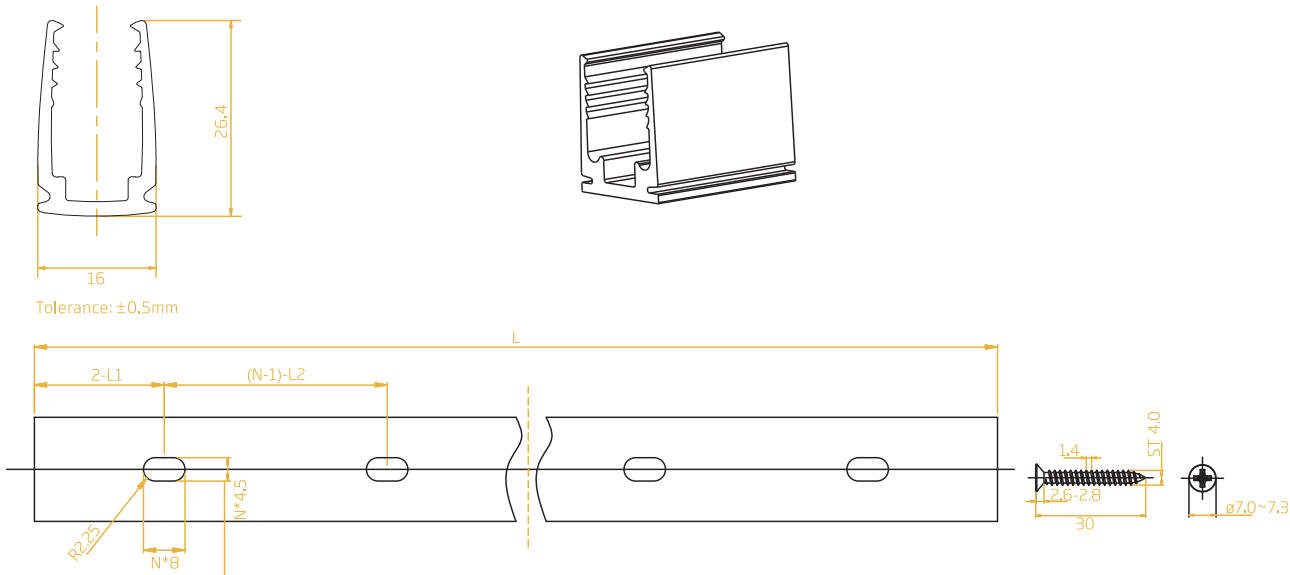| Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN – 1129 – SA/PL – 20MM – AL	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
FXN – 1129 – SA/PL – 500MM – AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FXN – 1129 – SA/PL – 1000MM– AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FXN – 1129 – SA/PL – 2000MM– AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

FXN 1129|FLEXIBLE NEON

MOUNTING PROFILES

Flange Serrated Aluminium Profile

Dimensions: mm

25.5

24.8

15.9

Tolerance: ±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

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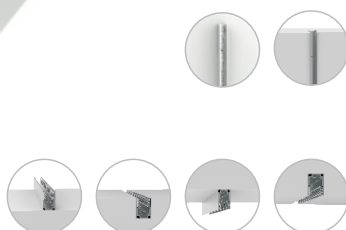2.   (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
"N" herbey stands for its corresponding "Hole Number" in the below table

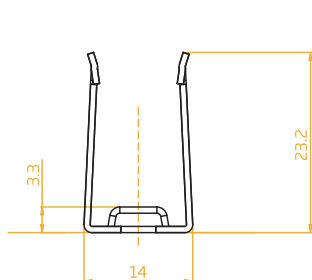| Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN – 1129 – FSA/PL – 20MM – AL	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
FXN – 1129 – FSA/PL – 500MM – AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
FXN – 1129 – FSA/PL – 1000MM– AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
FXN – 1129 – FSA/PL – 2000MM– AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

FXN 1129 | FLEXIBLE NEON

MOUNTING PROFILES

Thickened Plastic Profile

Dimensions: mm

26.4

16

Tolerance: ±0.5mm

L

2-L1

(N-1)-L2

R2.25

N*8

N*4.5

1.4

ST 4.0

2.6-2.8

30

ø7.0~7.3

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

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN – 1129 – TP/PL – 35MM – TT	35mm/1.38in	17.5mm/0.69in	/	4.5*8mm/0.18*0.31in	1
FXN – 1129 – TP/PL – 500MM – TT	500mm/19.68in	50mm/1.97in	200mm/7.87in	4.5*8mm/0.18*0.31in	3
FXN – 1129 – TP/PL – 1000MM– TT	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4.5*8mm/0.18*0.31in	5
FXN – 1129 – TP/PL – 2000MM– TT	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4.5*8mm/0.18*0.31in	10

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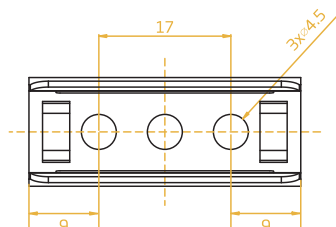16 | 30

FXN 1129|FLEXIBLE NEON

MOUNTING PROFILES

Stainless Steel Profile

Dimensions: mm

Tolerance: ±0.3mm
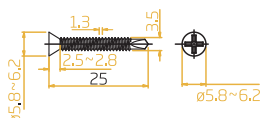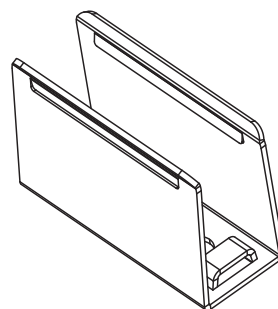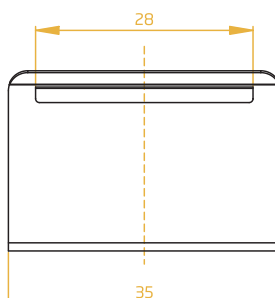
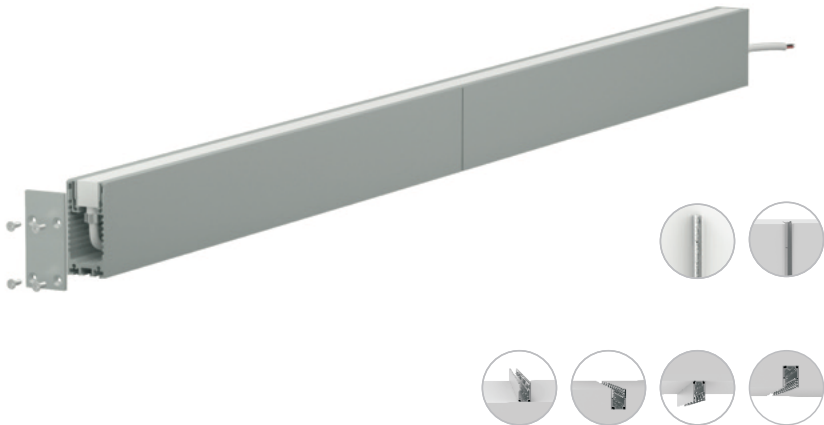| Item Code	Standard Length	Screw Hole	Hole Number
FXN – 1129 – SS/PL – 35MM – SSL	35mm/1.38in	4.5mm/0.18in	3

FXN 1129|FLEXIBLE NEON

MOUNTING PROFILES

Bendable Serrated Aluminium Profile
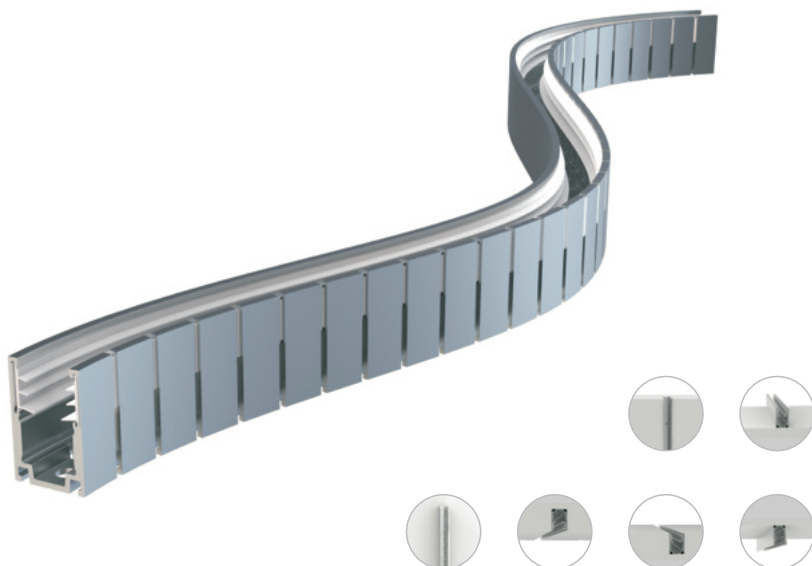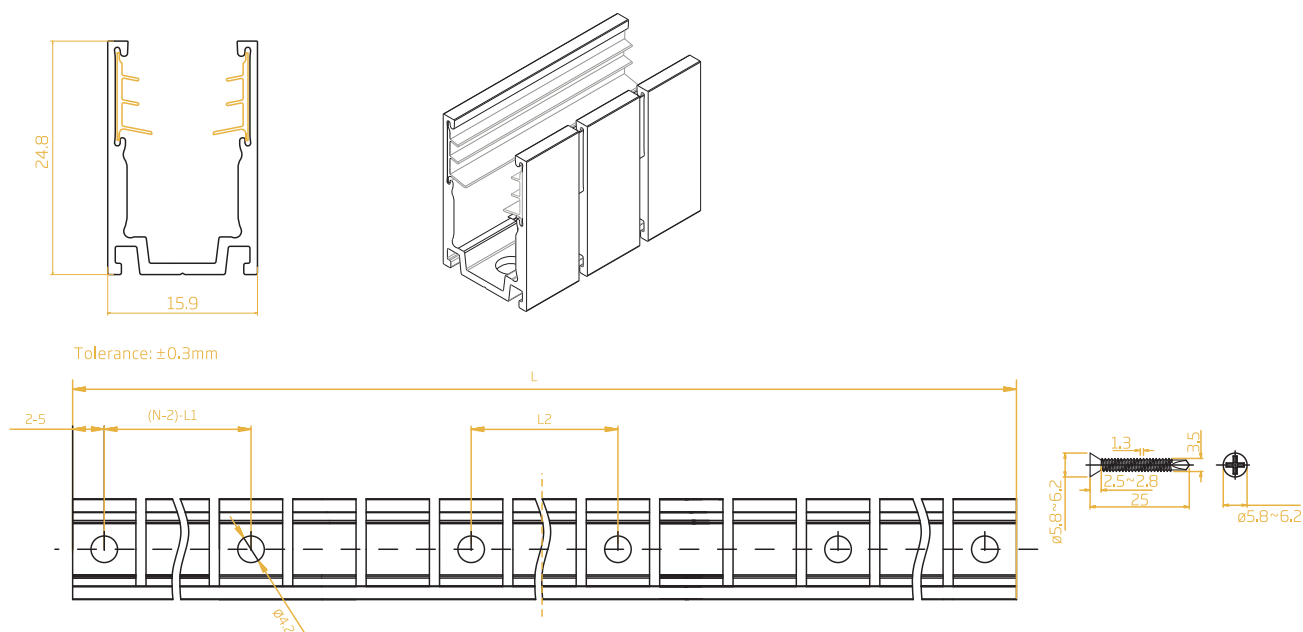
Dimensions: mm

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

Item Code	Standard Length	L1	L2	Screw Hole	Hole Number
FXN – 1129 – BSA/PL – 500MM – AL	500mm/19.68in	110.3mm/4.34in	48.9mm/1.92in	4.2mm/0.17in	6
FXN – 1129 – BSA/PL – 1000MM – AL	1000mm/39.37in	111.4mm/4.39in	98.8mm/3.89in	4.2mm/0.17in	10

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18 | 30

FXN 1129|FLEXIBLE NEON

MOUNTING PROFILES

Surface-mounted Raceway Aluminium Profile

Dimensions: mm
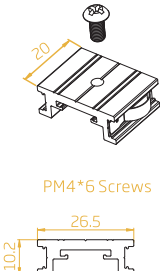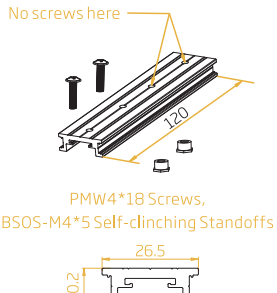

62

29

Tolerance: ±0.3mm

L $^{+0.5}_{0}$

2-L1

(N-1)-L2

2NxR2.1

Nx12

Nx4.2

35

1.4

ø7.7

ø7.7

ST4.18

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

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
FXN – 1129 – SMR/PL – 500MM – AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4.5*12mm/0.18*0.471in	3
FXN – 1129 – SMR/PL – 1000MM – AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4.5*12mm/0.18*0.471in	5
FXN – 1129 – SMR/PL – 2000MM– AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4.5*12mm/0.18*0.471in	10

FXN 1129|FLEXIBLE NEON

MOUNTING PROFILES

Surface-mounted Raceway Aluminium Profile

Main Components

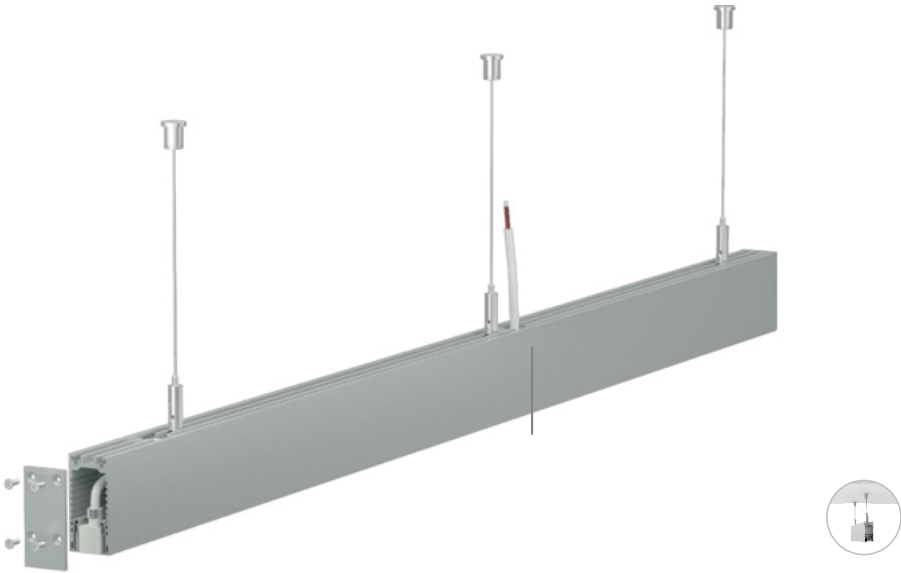| Outer Aluminum Profile		Inner Aluminum Profile	
62 / 29 — PA4.2*35 Self-tapping Screws		29.5 / 25.1	
Retaining Bracket for Inner and Outer Profiles	Joining Bracket for Outer Profiles	End Cover	End Cover with Cable Hole
20 — PM4*6 Screws — 26.5 / 10.2	No screws here — 120 — PMW4*18 Screws, BSOS-M4*5 Self-clinching Standoffs — 26.5 / 10.2	KM3*8 Screws	KM3*8 Screws

Exploded View

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20 | 30
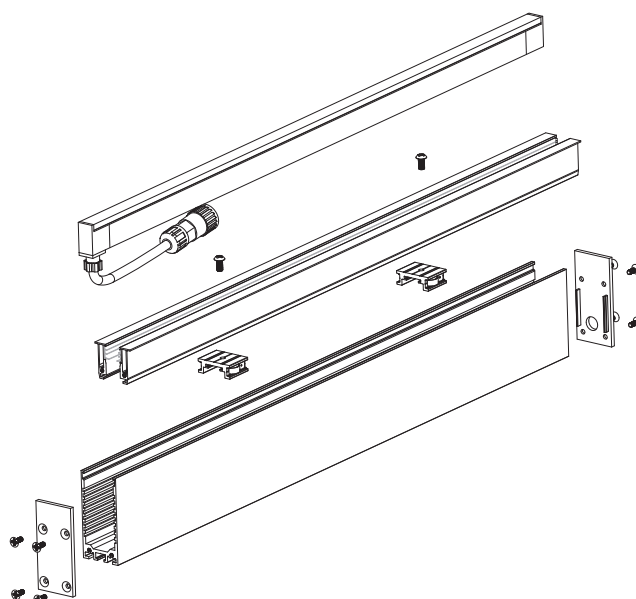
FXN 1129 | FLEXIBLE NEON

MOUNTING PROFILES

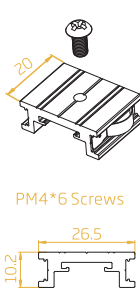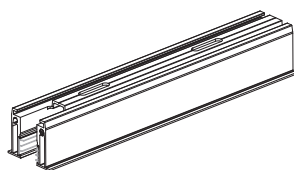### Suspended Raceway Aluminium Profile

Dimensions: mm

Tolerance: ±0.3mm

Ø10 Cable Hole
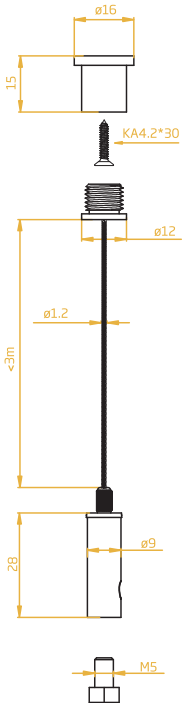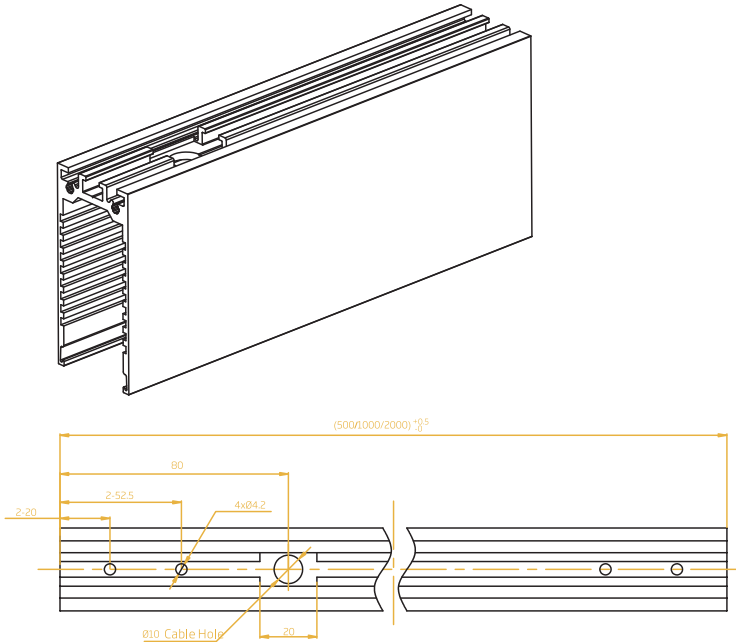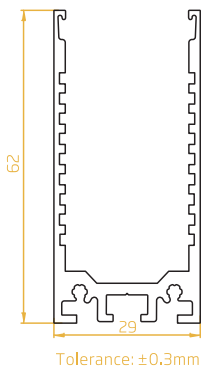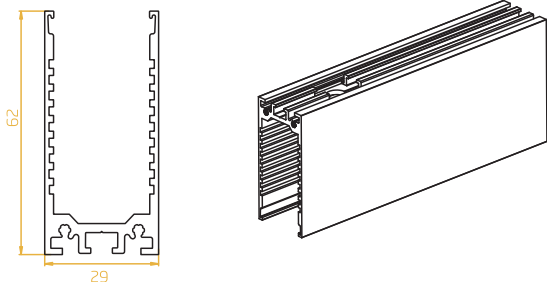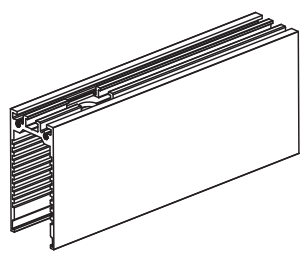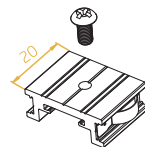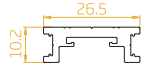
Item Code	Standard Length
FXN – 1129 – SR/PL – 500MM – AL	500mm/19.68in
FXN – 1129 – SR/PL – 1000MM – AL	1000mm/39.37in
FXN – 1129 – SR/PL – 2000MM– AL	2000mm/78.74in

FXN 1129|FLEXIBLE NEON

MOUNTING PROFILES

Surface-mounted Raceway Aluminium Profile

Main Components

Outer Aluminum Profile		Inner Aluminum Profile		

Retaining Bracket for Inner and Outer Profiles	Joining Bracket for Outer Profiles	Suspended Ceiling Kit	End Cover	Rubber Grommet
PM4*6 Screws	PMW4*30 Screws	Cable Coupler Steel Wire Cable Gripper KA4.2*30 Screws	KM3*8 Screws	

Exploded View
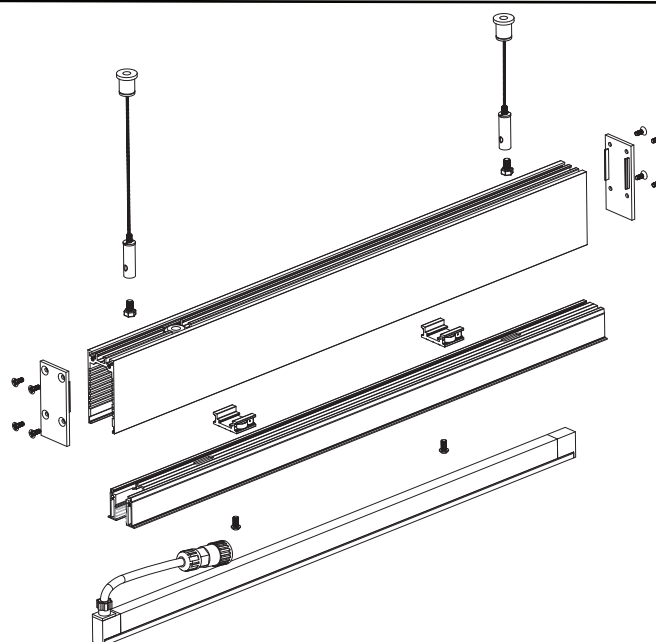
FXN 1129|FLEXIBLE NEON

BRACKETS

Pivot Mounting Bracket

Item Code: FXN – 1129 – B – PM

26
23
1.5

9,5
21
15

Screw: PM 3*6

6
M3
ø5.0~5.5
ø5.0~5.4
1.7

26
10
15
21
23

Screw: KA 3.5*25

ø5.8~6.2
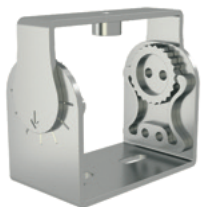ø5.8~6.2
1.3
3.5
2.5~2.8
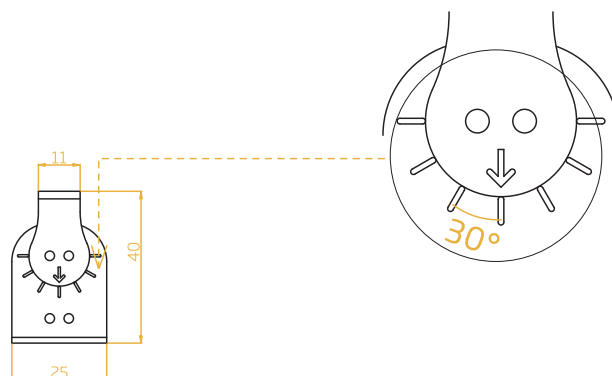25
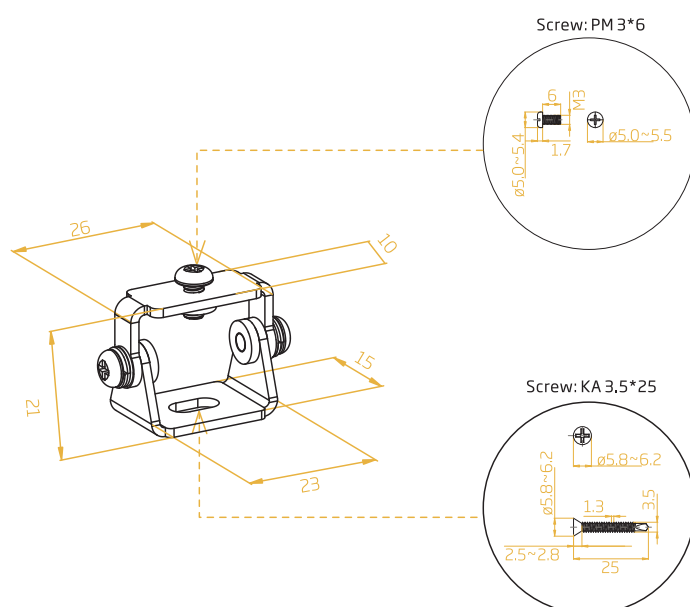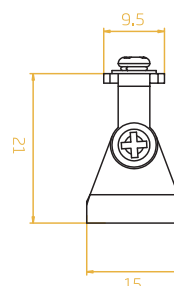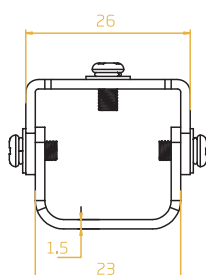
Note:
Applicable to all types of mounting profiles

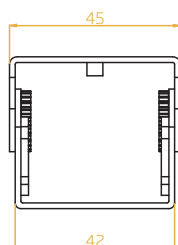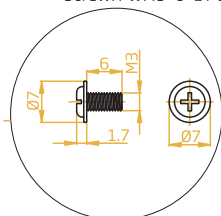# FXN 1129|FLEXIBLE NEON

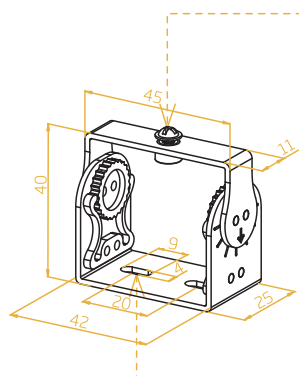## BRACKETS

Rotary Locking Bracket

Item Code: FXN – 1129 – B – RL
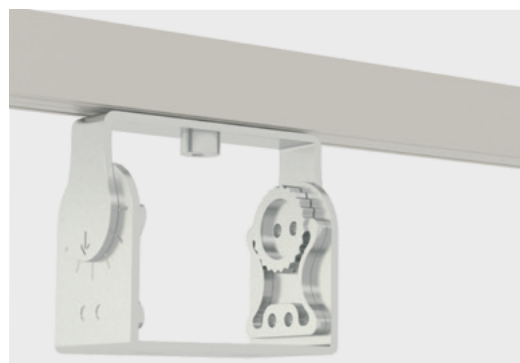
45
42
11
40
25
30°

Screw: PWM3*6 1PC

Ø7
6
M3
1.7
Ø7

45
40
11
9
20
42
25

Screw: KA 3.5*25 2PCS

ø5.8~6.2
Ø5.8~6.2
1.3
3.5
2.5~2.8
25

Note:
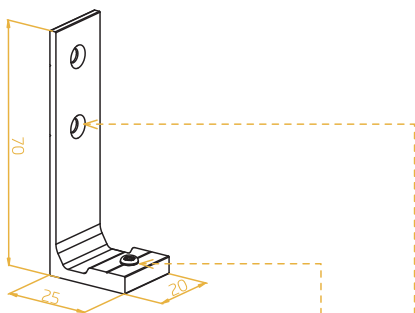Applicable to all types of mounting profiles

FXN

FXN 1129|FLEXIBLE NEON
BRACKETS
Side Mounting Brakcet

Item Code: FXN – 1129 – B – SM

70
25
20

Note:
Applicable to all types of mounting profiles

Screw PM 3*6 1pc

6 M3
1.7
ø5.0~5.4
ø5.0~5.5

Screw KA3.5*25 2pcs

1.3
3.5
2.5~2.8
25
ø5.8~6.2
ø5.8~6.2
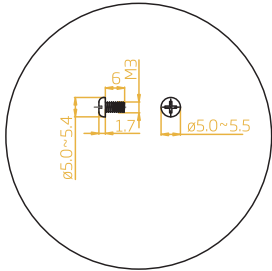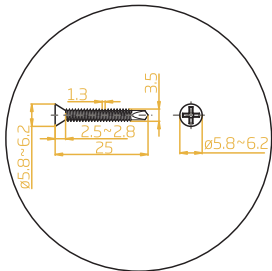
FXN 1129|FLEXIBLE NEON

BRACKETS

Joining Bracket

14.3mm   1.6mm

45mm

SW11
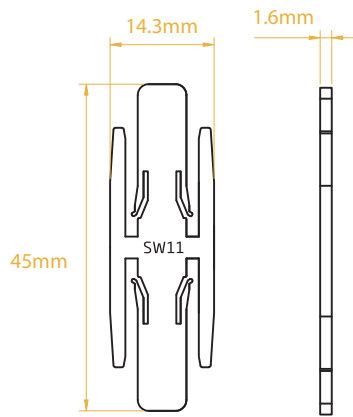
Note: Applicable to serrated aluminium profile.

Item Code: FXN – 1129 – B – J

13.8mm   1mm

45mm

W11
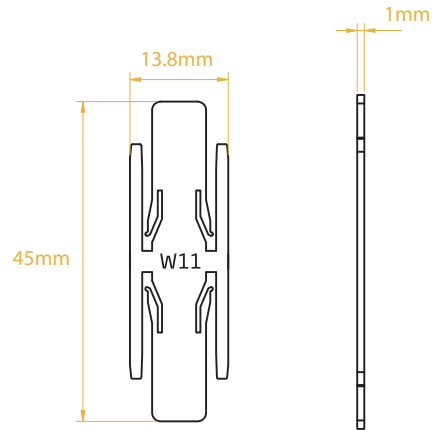
Note: Applicable to aluminium profile.

FXN 1129 | FLEXIBLE NEON
CLIPS

Ceiling Mounting Clip

Item Code: FXN – 1129 – C – CM

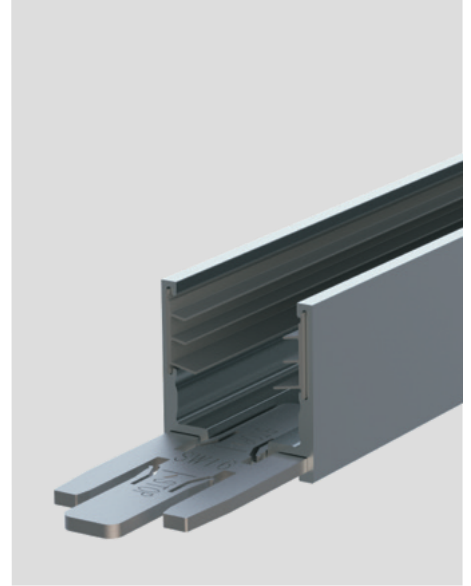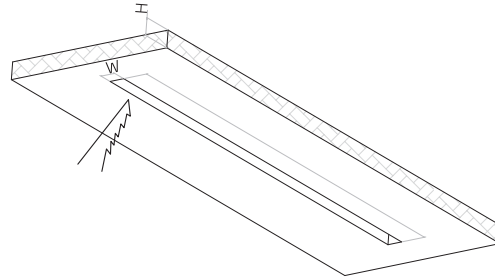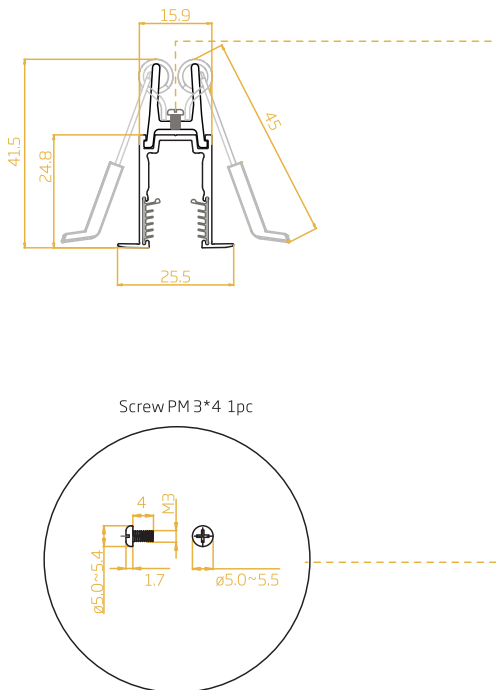The width applicable to FXN 1121: 17≈20mm
The thickness of ceiling: 5≈50mm

Screw PM 3*4 1pc
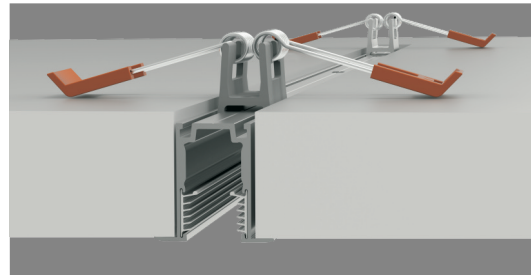
Note:
Only applicable to flanged serrated aluminium profile.

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27 | 30

FXN 1129|FLEXIBLE NEON
CLIPS

Suspended Mounting Clip

Item Code: FXN – 1129 – C – SM

23.7
35
16.8

Clevis: 1PC

1.3
3.5
ø5.8~6.2
2.5~2.8
25
ø5.8~6.2
Screw: KA3.5*25, 1PC

Mounting Flange: 1PC

Upper Rod:
Custom length and qty
(max. overall length 1.2m
including bottom rod)

Slotted hole is reserved
for wiring if needed.

Bottom Rod with Clip:
Custom length and qty
(max. overall length 1.2m
including upper rod)

Clip

6
M3
ø5.0~5.4
1.7
ø5.0~5.4
Screw: PM3*6, 1PC

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28 | 30

FXN 1129|FLEXIBLE NEON
WIRE

Suspended Mounting Wire

ø16
15
KA4.2*30
ø12
ø1.2
<3m
28
ø9
M5
M3
7

Countersunk Self-tapping Screw-KA4.2*30

Cable Couplers

Stainless Steel Wire

Cable Gripper

Hex Bolt

Round Head Screw

Item Code: FXN – 1129 – W – SM

Note:
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
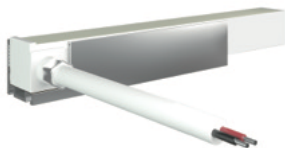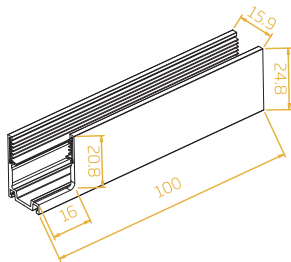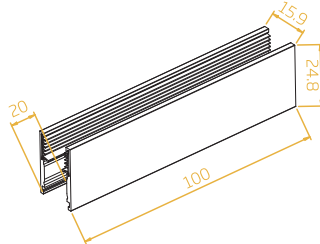1 piece of 2m serrated aluminium profile.

FXN 1129|FLEXIBLE NEON

CLIP

Cable-exit Mounting Clip

Cable-exit Mounting Clip-Side	Cable-exit Mounting Clip-Bottom	Cable-exit Mounting Clip-Middle Side
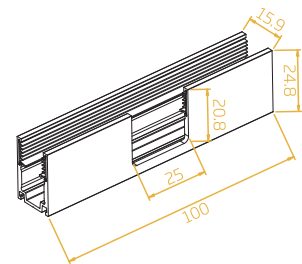
Item Code: FXN – 1129 – C – CEM

Warning:
Cable-exit mounting clip-middle side must be preinstalled for injection-moulded seamless middle connector as protection during transportation.

Note:
1.   Applicable to single-layer injection-moulded connector with side, or bottom cable entry, whose size can be matched exactly.
2.   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.
3.   10cm/piece, combines with other lengths of mounting profiles to fit the equivalent ligth length.