RED / GREEN / BLUE / YELLOW / AMBER ORANGE / PINK / PURPLE / WHITE

SINGLE COLOUR DIMMABLE LED NEON



FIREFLY LIGHTING

Phone: +61 7 3254 4333 Email: sales@fireflylighting.com.au Address: 9/29 Links Ave North, Eagle Farm.

Brishane QLD 4009 Australia www.fireflylighting.com.au





















5 YEAR WARRANT

Light Surface





FloppyFlex F15 single colour is flexible 24V LED neon available in several colours or colour temperatures of white. The minimum horizontal bend diameter is 120 mm. Features a homogenous LED surface without "skittles" effect.

CONTENTS

LED Specifications

Ρ7 Connectors

P10 Tool Kit

P11 Drivers

Aluminium Profiles

FEATURES

Super bright with homogenous lighting surface

Smooth, beautiful dimming, DMX control via FloppyDrive, DMX Decoder, or PWM Dimmer

Wide beam angle

Wide range of accessories for joining, terminating, mounting, powering

Easy to use and install

Tight 120 mm horizontal bend

Unlimited and unprecedented possibilities

APPLICATIONS

Installation, architectural, digital signage, gameshows, arcades, signs, film and television sets, theme parks, bars and clubs, cruise ships, creating words, indirect applications, and scenic elements

AVAILABLE CONNECTORS

Injection Molded Power Feed and End cap connectors, fully customizable for no-hassle installations. PVC IP67, Silicone IP68.

Double Molded IP68 Power Feed and End cap connectors, suitable for submersible applications. PVC only - not available for silicone versions.

Snap Connect power feeds and end caps allow for easy onsite terminations with IP67 ratings, and allow for the End, Side, Middle, or Bottom power feed entry.

RESISTANCE AND PROTECTIONS

Flame Resistant UV Resistant Solvents Resistant Saltwater Resistant IP67 Protection IK08 Protection

CERTIFICATIONS

With factory-installed connectors. cULus Listed, CE, TUV and RoHS compliant and passes rigorous environmental, optical, mechanical, and electrical testing.











WHITE PVC

FLAT PROFILE LED NEON





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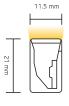
F15 White PVC Specifications

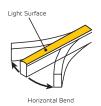
Part Number		LN-F15B-21	LN-F15B-27	LN-F15B-30	LN-F15B-35	LN-F15B-40	LN-F15B-57		
Туре		Dimmable Fixed White							
LED Colour		2100K	2700K	3000K	3500K	4000K	5700K		
CCT		2238±102K	2725±145K	3045±175K	3465±245K	3985±275K	5669±355K		
Lumen/m		300	350	350	350	350	350		
CRI		82-87				•			
Beam Angle, A	verage (50%)	115.3°							
Cut & Connect	t Unit Length	83.34 mm							
Number of Un	its Per Meter	12							
LED Quantity I	Per Unit	6							
LED Quantity I	Per Meter	72							
Base Color		White							
Housing		PVC							
Minimum Bend	d Diameter	120 mm							
Bending Direc	tion	Horizontal Bend							
Connectors &	Hardware	Factory molded connectors / Field attachable connectors / Aluminium mounting channels							
Operating Volt	age	24V DC							
Wiring		2-Wire							
Power Consun	nption	12 W/m							
Max Fixture	Single end feed	10 m							
Runs	Double end feed	20 m							
Control		DMX-512/Ethernet via ProPlex BuckBoost System, DMX-512 via FloppyDrive 2X2, or DMX decoder, Dimmable PWM LED Driver, Non-dimmable DC LED Driver							
Installation Ter	mperature	0 to 45 °C							
Operating Tem	perature	-20 to 45 °C							
Mounting Surf	ace Temperature	60 °C Max.							
Storage Tempe	erature	-20 to 60 °C							
Dimensions (V	VxHxD)	11.5 mm x 29 mm x variable							
Ingress Protec	tion	IP67 with Molded connectors, IP68 with Double Molded connectors, IP67 with Snap Connect connectors							
Listing		UL2108 Class 2,	UL2108 Non Class	2, CE-EMC, IS 10322	2				
Warranty		3 Years							













WHITE SILICONE

FLAT PROFILE LED NEON





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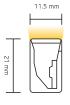
F15 White Silicone Specifications

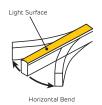
Part Number		SLN-F15B-21	SLN-F15B-27	SLN-F15B-30	SLN-F15B-35	SLN-F15B-40	SLN-F15B-57		
Туре		Dimmable Fixed White							
LED Colour		2100K	2700K	3000K	3500K	4000K	5700K		
CCT		2238±66K	2725±85K	3045±105K	3465±245K	3985±150K	5669±305K		
Lumen/m	Lumen/m		360	400	400	400	400		
CRI		82-87							
Beam Angle, A	verage (50%)	113.2°							
Cut & Connec	t Unit Length	83.34 mm							
Number of Un	its Per Meter	12							
LED Quantity	Per Unit	6							
LED Quantity	Per Meter	72							
Base Color		White							
Housing		Silicone							
Minimum Ben	d Diameter	120 mm							
Bending Direc	tion	Horizontal Bend							
Connectors &	Hardware	Factory molded connectors / Field attachable connectors / Aluminium mounting channels							
Operating Volt	age	24V DC							
Wiring		2-Wire							
Power Consun	nption	12 W/m							
Max Fixture	Single end feed	15 m							
Runs	Double end feed	30 m							
Control		DMX-512/Ethernet via ProPlex BuckBoost System, DMX-512 via FloppyDrive 2X2, or DMX decoder, Dimmable PWM LED Driver, Non-dimmable DC LED Driver							
Installation Ter	mperature	-40 to 50 °C							
Operating Tem	perature	-40 to 55 °C							
Mounting Surf	face Temperature	85 °C Max.							
Storage Tempe	erature	-40 to 60 °C							
Dimensions (V	VxHxD)	11.5 mm x 29 mm x variable							
Ingress Protec	tion	IP68 with Molded connectors, IP67 with Snap Connect connectors							
Listing		UL2108 Class 2,	CE-EMC, IS 10322						
Warranty		5 Years							











WHITE NICHIA PVC

FLAT PROFILE LED NEON





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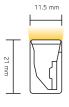
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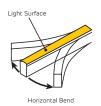
F15 White Nichia LED PVC Specifications

Part Number		LN-F21B- 25N	LN-F21B- 27N	LN-F21B- 30N	LN-F21B- 35N	LN-F21B- 40N	LN-F21B- 45N	LN-F21B- 50N			
Туре		Dimmable Fixed White									
LED Colour		2500K	2700K	3000K	3500K	4000K	4500K	5000K			
CCT		2460±120K	2725±145K	3045±175K	3465±245K	3985±275K	4503±243K	5029±283K			
Lumen/m		280	280	320	320	320	320	320			
CRI		81-88									
Beam Angle, A	verage (50%)	114.0°									
Cut & Connect	: Unit Length	100 mm									
Number of Uni	ts Per Meter	10									
LED Quantity F	Per Unit	6									
LED Quantity F	Per Meter	60									
Base Color		White									
Housing		PVC	PVC								
Minimum Bend	Minimum Bend Diameter		120 mm								
Bending Direct	ion	Horizontal Bend									
Connectors &	Hardware	Factory molded connectors / Field attachable connectors / Aluminium mounting channels									
Operating Volt	age	24V DC									
Wiring		2-Wire									
Power Consum	nption	12 W/m									
Max Fixture	Single end feed	10 m									
Runs	Double end feed	20 m									
Control		DMX-512/Ethernet via ProPlex BuckBoost System, DMX-512 via FloppyDrive 2X2, or DMX decoder, Dimmable PWM LED Driver, Non-dimmable DC LED Driver									
Installation Ter	nperature	0 to 45 °C									
Operating Tem	perature	-20 to 45 °C									
Mounting Surf	ace Temperature	60 °C Max.									
Storage Tempe	rature	-20 to 60 °C									
Dimensions (W	/xHxD)	11.5 mm x 29	mm x variable								
Ingress Protec	tion	IP67 with Mole	ded connectors, IF	P68 with Double A	Nolded connector	s, IP67 with Snap	Connect connect	ors			
Listing		UL2108 Class	2, UL2108 Non C	lass 2, CE-EMC, IS	5 10322						
Warranty		3 Years									











SINGLE COLOUR PVC

FLAT PROFILE LED NEON





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F15 Colour PVC Specifications

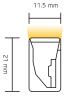
Part Number		LN-F15B-R	LN-F15B-G	LN-F15B-B	LN-F15B-Y	LN-F15B-O			
Туре		Dimmable Fixed Colour							
LED Colour		Red	Green	Blue	Yellow	Orange			
Wavelength		618-624nm	522-528nm	468-474nm	578-582nm	600-606nm			
Lumen/m		50	135	20	200	150			
Beam Angle, A	verage (50%)	116.5°							
Cut & Connect	: Unit Length	125 mm	83.34 mm						
Number of Un	its Per Meter	8	12						
LED Quantity I	Per Unit	9	6						
LED Quantity I	Per Meter	72	72						
Base Colour*		Pantone #1797C	Pantone #3278C	Pantone #302C	Pantone #4535C	Pantone #7410C			
Housing		PVC							
Minimum Bend	d Diameter	120 mm							
Bending Direc	tion	Horizontal Bend							
Connectors &	Hardware	Factory molded connectors / Field attachable connectors / Aluminium mounting channels							
Operating Volt	age	24V DC							
Wiring		2-Wire							
Power Consun	nption	8 W/m	12 W/m						
Max Fixture	Single end feed	15 m	10 m						
Runs	Double end feed	30 m	20 m						
Control		DMX-512/Ethernet via ProPlex BuckBoost System, DMX-512 via FloppyDrive 2X2, or DMX decoder, Dimmable PWM LED Driver, Non-dimmable DC LED Driver							
Installation Ter	nperature	0 to 45 °C							
Operating Tem	perature	-20 to 50 °C	to 50 °C -20 to 45 °C						
Mounting Surf	ace Temperature	60 °C Max.							
Storage Tempe	erature	-20 to 60 °C							
Dimensions (V	/xHxD)	11.5 mm x 29 mm x variable							
Ingress Protec	tion	IP67 with Molded connectors, IP68 with Double Molded connectors, IP67 with Snap Connect connectors							
Listing		UL2108 Class 2, UL2	108 Non Class 2, CE-EM	C, IS 10322					
Warranty		3 Years							

^{*} Actual colour may vary slightly due to processing variations. Custom colours by special request.













SINGLE COLOUR SILICONE

FLAT PROFILE LED NEON





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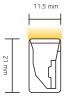
F21 Colour Silicone Specifications

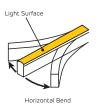
Part Number		SLN-F21B-R	SLN-F21B-A	SLN-F21B-G	SLN-F21B-B			
Туре		Dimmable Fixed Colour						
LED Colour		Red	Amber	Green	Blue			
Wavelength		618-624nm	588-594nm	522-528nm	468-474nm			
Lumen/m		130	130	350	70			
Beam Angle, A	verage (50%)	114.0°						
Cut & Connec	t Unit Length	125 mm		83.34 mm				
Number of Un	its Per Meter	8		12				
LED Quantity	Per Unit	9		6				
LED Quantity	Per Meter	72		72				
Base Color		White						
Housing		Silicone						
Minimum Ben	d Diameter	120 mm						
Bending Direc	tion	Horizontal Bend						
Connectors &	Hardware	Factory molded connectors / Field attachable connectors / Aluminium mounting channels						
Operating Volt	age	24V DC						
Wiring		2-Wire						
Power Consur	nption	8 W/m		12 W/m				
Max Fixture	Single end feed	20 m		15 m				
Runs	Double end feed	40 m		30 m				
Control		DMX-512/Ethernet via ProPlex BuckBoost System, DMX-512 via FloppyDrive 2X2, or DMX decoder, Dimmable PWM LED Driver, Non-dimmable DC LED Driver						
Installation Te	mperature	-40 to 50 °C						
Operating Tem	perature	-40 to 60 °C		-40 to 55 °C				
Mounting Surf	face Temperature	85 °C Max.						
Storage Tempe	erature	-40 to 60 °C						
Dimensions (V	VxHxD)	11.5 mm x 29 mm x variable						
Ingress Protec	tion	IP68 with Molded connectors, IP67 with Snap Connect connectors						
Listing		UL2108 Class 2, CE-EMC	C, IS 10322					
Warranty		5 Years						











FACTORY MOLDED F15 CONNECTORS

IP67 PVC OR IP68 SILICONE



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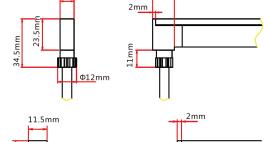
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Molded Bottom Entry Connection

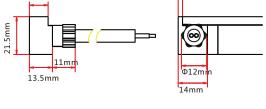
Connects FloppyFlex F15 to power supply with pre-installed bottom feed cable, IP67. Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



11.5mm

Molded Side Entry Connection

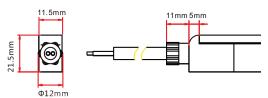
Connects FloppyFlex F15 to power supply with pre-installed side feed cable, IP67. Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.





Molded End Entry Connection

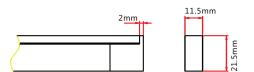
Connects FloppyFlex F15 to power supply with pre-installed end feed cable, IP67. Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.





Molded End Cap

Pre-installed termination protection of FloppyFlex F15, IP67.





Molded End Entry Connection

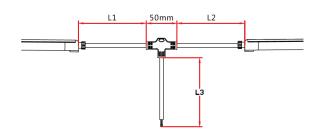
Connects two pieces of FloppyFlex F15 together with a flexible cable, IP67. Cable length available in 0.3 - 1 m. Maximum 8 jumpers per 20 m Maximum 4 jumpers per 10 m





Molded T-Feed Connection

Connects two pieces of FloppyFlex F15 together with powered T-joint, IP67. L1 and L2 length available in 0.15-0.5 m. L3 length available in 0.3 - 1 m Maximum 8 T-Feeds per 20 m Maximum 4 T-Feeds per 10 m











FACTORY DOUBLE MOLDED F15 CONNECTORS

IP68 PVC ONLY



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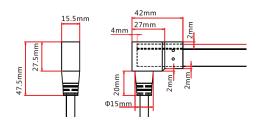
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Double-Molded Bottom Entry Connection

Connects FloppyFlex F15 to power supply with pre-installed end feed cable, IP68.

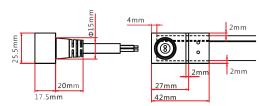
Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.





Double-Molded Side Entry Connection

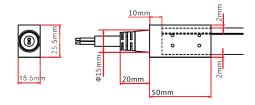
Connects FloppyFlex F15 to power supply with pre-installed side feed cable, IP68. Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.





Double-Molded End Entry Connection

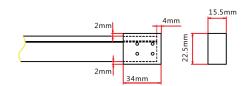
Connects FloppyFlex F15 to power supply with pre-installed end feed cable, IP68. Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.





Double-Molded End Cap

Pre-installed termination protection of FloppyFlex F15, IP68.





Double-Molded End Entry Connection

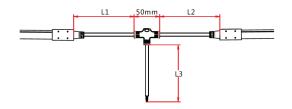
Connects two pieces of FloppyFlex F15 together with a flexible cable, IP68. Cable length available in 0.3 - 1 m. Maximum 8 jumpers per 20 m Maximum 4 jumpers per 10 m





Double-Molded T-Feed Connection

Connects two pieces of FloppyFlex F15 together with powered T-joint, IP68. L1 and L2 length available in 0.15-0.5 m. L3 length available in 0.3 - 1 m Maximum 8 T-Feeds per 20 m Maximum 4 T-Feeds per 10 m











SNAP CONNECT F15 CONNECTORS

IP67 PVC OR SILICONE



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Snap Connect Bottom Entry

Connects FloppyFlex F15 to power supply with user-installable end feed cable, IP67. Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



Snap Connect Side Entry

Connects FloppyFlex F15 to power supply with user-installable side feed cable, IP67. Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



Snap Connect End Entry

Connects FloppyFlex F15 to power supply with user-installable end feed cable, IP67. Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.



Snap Connect End Cap

User-installable termination protection of FloppyFlex F15, IP67.



Snap Connect End Entry

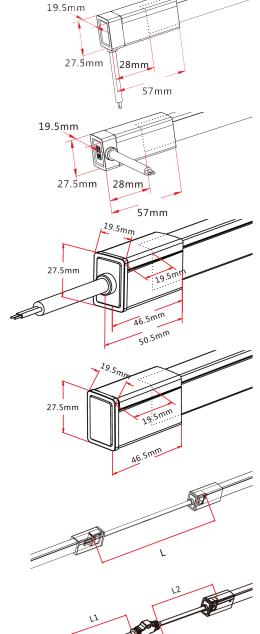
Connects two pieces of FloppyFlex F15 together with a flexible cable, user-installable IP67. Cable length available in 0.3 m, 1 m, and 3 m.



Snap Connect T-Feed

Connects two pieces of FloppyFlex F15 together with powered T-joint, user-installable,

L1 and L2 length available in 0.3 m. L3 length available in 1 m













MINI TOOL KIT

ASSEMBLY TOOLS



FIREFLY LIGHTING

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Mini Tool Kit

The FloppyFlex Mini Tool Kit includes the tools needed to properly cut and terminate FloppyFlex LED Neon with Snap Connect field-installable connectors. Correct installation ensures proper electrical contact, IP rating integrity, and warranty compliance.

Includes cutter, insertion spreader and grippers.

We recommend using these tools for optimum installation results and reduced risk of damage to the product.









DRIVERS



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L-TECH 4 channel DMX Decoder

- DMX dimming for 24V LED Tapes, Neons, and other low voltage systems of all types. Perfect for FloppyFlex
- One 24V 5-wire output
- Addressing via RDM or built in DIP switches
- Pluggable Terminal Block (PTB) screw terminals for bare-wire, installation flexibility
- Realises 0-100% dimming or different lighting effects.
- Works with DIM, CT, RGB, RGBW LEDs
- Can control 4 individual neon lengths.



Mean Well 24 VDC LED Drivers

- High efficiency 24VDC LED drivers in DIN Rail and stand-alone with multiple wattage configurations
- IP-rated units available
- Fixed or dimmable output. Dimming available via 1-10VDC, 10V PWM signal, resistance, or built-in potentiometer



L-TECH 3 channel DMX Decoder

- DMX dimming for 24V LED Tapes, Neons, and other low voltage systems of all types. Perfect for FloppyFlex
- One 24V 4-wire output
- Addressing via RDM or built in DIP switches
- Pluggable Terminal Block (PTB) screw terminals for bare-wire, installation flexibility
- Realises 0-100% dimming or different lighting effects.
- Works with DIM, CT, RGB LEDs
- Can control 3 individual neon lengths.











ALUMINIUM CHANNEL



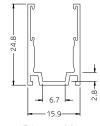
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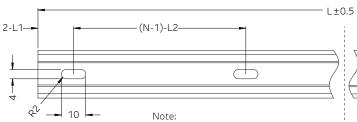
Versatile self-locking profile can be used to mount FloppyFlex F21 or F15 LED neon in any orientation including overhead at any angle. Extruded 6063 aluminium construction with elastic serrated grip tape hold the FloppyFlex neon firmly through varying temperatures of -20 to +70 °C.





Tolerance: ±0.2 mm

Dimensions in millimeters



--2.5-2.8 mmmmm



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 table below.

Part Number	Length	L1	L2	Slotted Hole	Number of Holes
LNCH-F21-AC	20 mm	10 mm	N/A	4x10 mm	1
LNCH-F21-A1-05	500 mm	50 mm	200 mm	4x10 mm	3
LNCH-F21-A1-1	1000 mm	100 mm	200 mm	4x10 mm	5
LNCH-F21-A1-2	2000 mm	100 mm	200 mm	4x10 mm	10







FLANGE ALUMINIUM CHANNEL



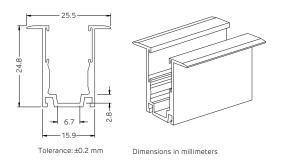
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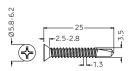
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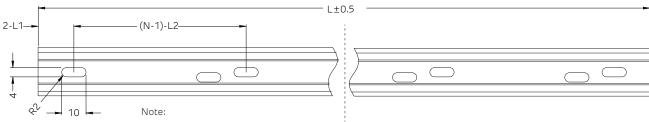
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Versatile self-locking profile can be used to mount recessed FloppyFlex F21 or F15 LED neon in any orientation including overhead at any angle. Extruded 6063 aluminum construction with elastic serrated grip tape hold the FloppyFlex neon firmly through varying temperatures of -20 to +70 °C.







- 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 table below.

Part Number	Length	L1	L2	Slotted Hole	Number of Holes
LNCH-F21-A3-20	20 mm	10 mm	N/A	4x10 mm	1
LNCH-F21-A3-05	500 mm	50 mm	200 mm	4x10 mm	3
LNCH-F21-A3-1	1000 mm	100 mm	200 mm	4x10 mm	5









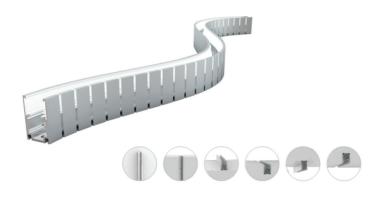
BENDABLE ALUMINIUM CHANNEL



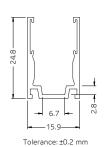
FIREFLY LIGHTING

Phone: +61 7 3254 4333 Email: sales@fireflylighting.com.auAddress: 9/29 Links Ave North, Eagle Farm.

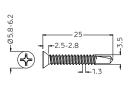
Brisbane QLD 4009 Australia www.fireflylighting.com.au



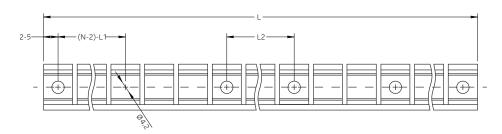
Flexible self-locking profile can be used to mount FloppyFlex F21 or F15 LED neon in custom freeform curves while maintaining clamping force. May be mounted in any orientation including overhead at any angle.







Dimensions in millimeters



- 1. 2-5 refers to two of symmetric 5mm in each piece of profile.
- 2. (N-2)-L1 refers to)N minus two) of symmetric L1 in each piece of profile.
- "N" hereby stands for its corresponding "Hole Number" in the table below.

Part Number	Length	L1	L2	Screw Hole	Number of Holes
LNCH-F21-A2-05	500 mm	116.5 mm	23.3 mm	Ø4.2 mm	6
LNCH-F21-A2-1	1000 mm	116.5 mm	58.2 mm	Ø4.2 mm	10





