RGB / RGBW

MULTI-PIXEL 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

















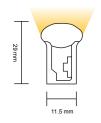
3 YEAR

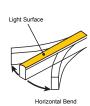


5 YEAR WARRANT









FloppyFlex F21 Digital is flexible 24V LED neon with multi-pixel control for advanced chasing, programmable scenes, and animated visual effects via FloppyDrive Digital, or an SPI decoder. It features a rich, vibrant color palette with RGB or RGBW LEDs. Available with PVC housing with a pixel size of 125mm and an average beam angle of 170.5° (50%) or longer lasting silicone housing with a pixel size of 125 mm and an average beam angle of 145.9° (50%). The minimum horizontal bend diameter is 120 mm. Black base is standard with a homogenous LED package without "skittles" effect.

CONTENTS

LED Specifications

Р4 Connectors

Р7 Mini Tool Kit

P8 Drivers

Aluminium Profiles

FEATURES

Digital RGB or RGBW with multi-pixel control in 125 mm sections

Super bright, pixel package with homogenous lighting surface

170.5° beam angle (PVC), 145.9° beam angle (Silicone)

Tight 120 mm horizontal bend

Seamless color mixing, beautiful dimming via FloppyDrive Digital or SPI decoder

Auto-addressing allows for quick setup and patching

Largest viewable beam spread in the FloppyFlex family

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

Easy to use and install

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 Connector Power Feed 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.









RGB

MULTI-PIXEL LED NEON





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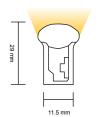
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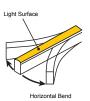
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	PVC Specifications			Silicone Specifications SLN-F21S-RGB					
Part Number	LN-F21S-RGB								
Туре	Digital Mul	lti-Pixel Con	trol						
Colour	RGB	RGB							
Colour/CCT	Red	Green	Blue	R+G+B	Red	Green	Blue	R+G+B	
Wavelength	618- 624nm	522- 528nm	468- 474nm	-	618- 624nm	522- 528nm	468- 474nm	-	
Lumen/m	42	110	18	170	40	110	20	170	
Beam Angle, Average (50%)	170.5°				145.9°				
Number of Pixels Per Meter	8				<u> </u>				
LED Quantity Per Pixel	7								
LED Quantity Per Meter	56								
DMX Channels	3 per pixel	/ 24 per me	ter						
Base Color	Black base standard, other colors available on request				White base standard, other colors available on request				
Housing	PVC				Silicone				
Cut & Connect Joints	Located Ev	ery 125 mm	1		•				
Minimum Bend Diameter	120 mm	120 mm							
Bending Direction	Horizontal Bend								
Connectors & Hardware	Factory mo	Factory molded connectors / Field attachable connectors / Aluminium mounting channels							
Operating Voltage	24V DC								
Wiring	3-Wire								
Power Consumption	12 W/m								
	Single	15 m Dynamic Operation		Single	20 m Dynamic Operation				
	end feed	10 m Full	Full Static Load		end feed	15 m Full Static Load			
Max Fixture Runs	Double	30 m Dynamic Operation		Double	40 m Dynamic Operation				
	end feed	20 m Full Static Load			end feed	30 m Full Static Load			
Control	DMX-512/	Ethernet via	ProPlex Bu	ıckBoost Syste	em, DMX-512 v	/ia FloppyDr	rive Digital o	r SPI Deco	
Installation Temperature	0 to 45 °C				-40 to 50 °C				
Operating Temperature	-20 to 45 °	,C			-40 to 55 °C				
Mounting Surface Temperature	60 °C Max				85 °C Max.				
Storage Temperature	-20 to 60 °	-20 to 60 °C			-40 to 60 °C				
Dimensions (WxHxD)	11.5 mm x	29 mm x va	riable		<u> </u>				
Ingress Protection	IP68 with	IP67 with Molded connectors IP68 with Double Molded connectors IP67 with Quick Connect connectors			IP68 with Molded connectors IP67 with Quick Connect connectors Double Molded not available				
Listing	UL2108 C	ass 2, CE-EI	MC		<u> </u>				
Warranty	3 Years				5 Years				
Wire Legend					1				













RGBW

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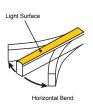
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	PVC Speci	PVC Specifications				RGBW Silicone Specifications				
Part Number	LN-F21S-RGBW				SLN-F21S-RGBW					
Туре	Digital Multi-Pixel Control									
Colour	RGBW									
Colour/CCT	Red	Green	Blue	White	Red	Green	Blue	White		
Wavelength	618- 624nm	522- 528nm	468- 474nm	2725±145K	618- 624nm	522- 528nm	468- 474nm	2725±85k		
Lumen/m	42	110	18	110	40	110	20	110		
Beam Angle, Average (50%)	170.5°				145.9°					
Number of Pixels Per Meter	8	8								
LED Quantity Per Pixel	7	7								
LED Quantity Per Meter	56	56								
DMX Channels	4 per pixel	4 per pixel / 32 per meter								
Base Color	Black base	Black base standard, other colors available on request								
Housing	PVC	PVC Silicone								
Cut & Connect Joints	Located Ev	Located Every 125 mm								
Minimum Bend Diameter	120 mm	120 mm								
Bending Direction	Horizontal	Horizontal Bend								
Connectors & Hardware	Factory mo	Factory molded connectors / Field attachable connectors / Aluminium mounting channels								
Operating Voltage	24V DC	24V DC								
Wiring	3-Wire									
Power Consumption	15 W/m									
	Single end feed	10 m Dynamic Operation		Single end feed	15 m Dynamic Operation					
Max Fixture Runs		5 m Full Static Load			10 m Full Static Load					
Max Fixture Ruris	Double	20 m Dynamic Operation		Double	30 m Dynamic Operation					
	end feed	10 m Full	Static Load		end feed 20 m Full Static Load					
Control	DMX-512/	Ethernet via	ProPlex Bu	ckBoost System, [DMX-512 via F	loppyDrive [Digital or SPI	Decoder		
Installation Temperature	0 to 45 °C				-40 to 50 °C					
Operating Temperature	-20 to 35 °	-20 to 35 °C			-40 to 55 °C					
Mounting Surface Temperature	60 °C Max				85 °C Max.					
Storage Temperature	-20 to 60 °	-20 to 60 °C			-40 to 60 °C					
Dimensions (WxHxD)	11.5 mm x	29 mm x va	oriable							
Ingress Protection	IP67 with Molded connectors IP68 with Double Molded connectors IP67 with Quick Connect connectors				IP68 with Molded connectors IP67 with Quick Connect connectors Double Molded not available					
Listing	UL2108 C	ass 2, CE-El	MC							
Warranty	3 Years	3 Years				5 Years				
Wire Legend		-								















FACTORY MOLDED F21 CONNECTORS

IP67 PVC OR IP68 SILICONE



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Molded Bottom Entry Connection

Connects FloppyFlex F21 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.



Molded Side Entry Connection

Connects FloppyFlex F21 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 F21 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 F21, IP67.



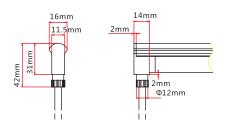
Molded End Entry Connection

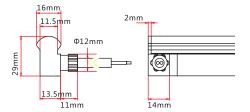
Connects two pieces of FloppyFlex F21 together with a flexible cable, IP67. Cable length available in 0.3 - 1 m. Maximum 8 jumpers per 20 m Maximum 4 jumpers per 10 m

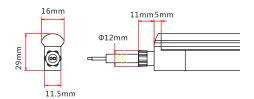


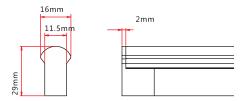
Molded T-Feed Connection

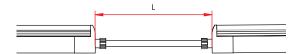
Connects two pieces of FloppyFlex F21 together with powered T-joint, IP67. L1 and L2 length available in 0.15-0.5 m. L3 length available in 0.3 - 1 m Maximum 8 T-Feeds per 20 m Maximum 4 T-Feeds per 10 m

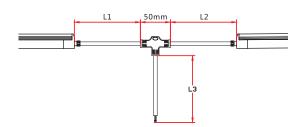




















DOUBLE FACTORY MOLDED F21 CONNECTORS

IP68 PVC ONLY



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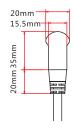
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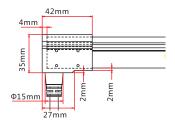
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Double-Molded Bottom Entry Connection

Connects FloppyFlex F21 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.

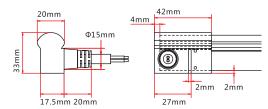






Double-Molded Side Entry Connection

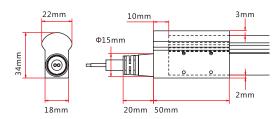
Connects FloppyFlex F21 to power supply with pre-installed side feed cable, IP68. Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.





Double-Molded End Entry Connection

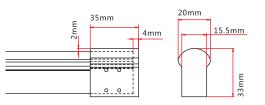
Connects FloppyFlex F21 to power supply with pre-installed end feed cable, IP68. Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.





Double-Molded End Cap

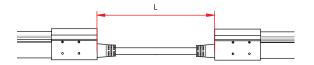
Pre-installed termination protection of FloppyFlex F21, IP68.





Double-Molded End Entry Connection

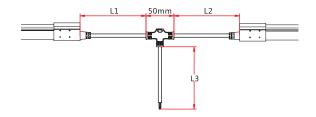
Connects two pieces of FloppyFlex F21 together with a flexible cable, IP68. Cable length available in 0.3 - 1 m. Maximum 8 jumpers per 20 m Maximum 4 jumpers per 10 m





Double-Molded T-Feed Connection

Connects two pieces of FloppyFlex F21 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 F21 CONNECTORS

IP67



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36mm

19.5mm

21.5mm

36mm

36mm

36mm

19.5mm

21.5mm

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Snap Connect Bottom Entry

Connects FloppyFlex F21 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 F21 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 F21 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.



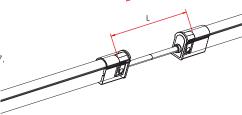
Snap Connect End Cap

User-installable termination protection of FloppyFlex F21, IP67.



Snap Connect End Entry

Connects two pieces of FloppyFlex F21 together with a flexible cable, user-installable, IP67. Cable length available in 0.3 m, 1 m, and 3 m.



21.5mm

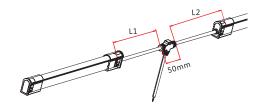
57mm



Snap Connect T-Feed

Connects two pieces of FloppyFlex F21 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



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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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FloppyDrive Digital DIN Rail Mount

- DMX multi-pixel dimming for FloppyFlex Digital RGB or RGBW
- Addressing, monitoring and reporting of all functions, via RDM
- 1200Hz flicker-free refresh rate
- Pluggable Terminal Block (PTB) screw terminals for bare-wire, installation
- Requires external 24 VDC Power Supply





· High efficiency 24VDC LED drivers in DIN Rail and stand-alone with multiple wattage configurations

Mean Well 24 VDC LED Drivers

- IP-rated units available
- Fixed or dimmable output. Dimming available via 1-10VDC, 10V PWM signal, resistance, or built-in potentiometer



L-TECH DMX-SPI Signal Decoder

- DMX dimming for 24V LED Tapes, Neons, and other low voltage systems of all types. Perfect for FloppyFlex
- One 24V 2-wire output plus signal.
- 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 IC compatible LEDs











STRAIGHT ALUMINIUM CHANNEL



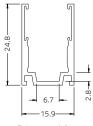
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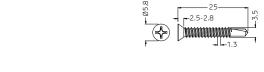


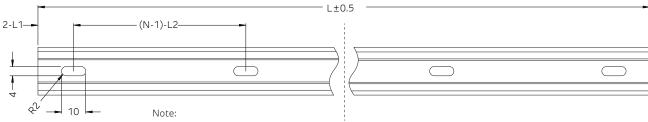
Versatile self-locking profile can be used to mount FloppyFlex F21 or F15 LED neon in any orientation including overhead at any angle. Extruded 6063 aluminium construction with elastic serrated grip tape hold the FloppyFlex neon firmly through varying temperatures of -20 to +70 °C.





Tolerance: ±0.2 mm Dimensions in millimeters





- 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-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 PROFILE



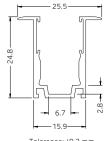
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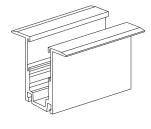
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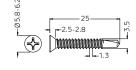
Versatile self-locking profile can be used to mount recessed FloppyFlex F21 or F15 LED neon in any orientation including overhead at any angle. Extruded 6063 aluminum construction with elastic serrated grip tape hold the FloppyFlex neon firmly through varying temperatures of -20 to +70°C.

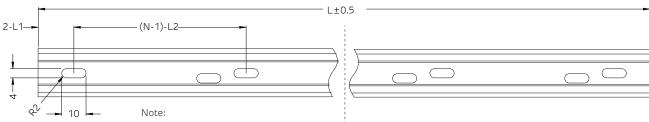




Tolerance: ±0,2 mm

Dimensions in millimeters





- 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







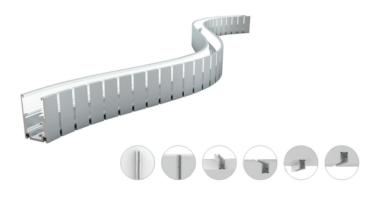
BENDABLE ALUMINIUM PROFILE



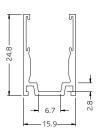
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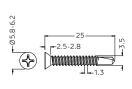
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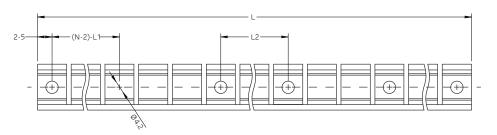
Flexible self-locking profile can be used to mount FloppyFlex F21 or F15 LED neon in custom freeform curves while maintaining clamping force. May be mounted in any orientation including overhead at any angle.







Dimensions in millimeters Tolerance: ±0.2 mm



- 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





