RGB AND RGBW - VERTICAL & HORIZONTAL BENDING

MULTI-PIXEL LED NEON



FIREFLY LIGHTING

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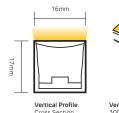


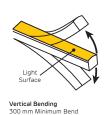




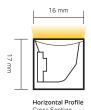
5 YEAR WARRANT







FloppyFlex Digital F22 is flexible 24V LED neon with multi-pixel control for advanced chasing, programmable scenes, and animated visual effects via an SPI DMX Decoder. It features a rich, vibrant colour palette with RGB or RGBW LEDs and a pixel size of 83.34 mm. Available with PVC housing with an average (50%) beam angle of 116.2° or longer lasting Silicone housing with an average (50%) beam angle of 113.5°. The minimum Vertical or Horizontal Bending diameter is 300 mm. Black base is standard with a homogenous LED package without "skittles" effect.





FEATURES

Digital multi-pixel control in 83.34 mm "pixel" sections

Super bright, pixel package with homogenous lighting surface

116.2° beam angle (PVC), 113.5° beam angle (Silicone)

Seamless colour mixing, beautiful dimming via FloppyDrive Digital or SPI Decoder

Auto-addressing allows for quick setup and patching

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

Easy to use and install

300 mm minimum vertical & horizontal bending bend diameter

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.

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.

CONTENTS

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RGB - VERTICAL BENDING

MULTI-PIXEL LED NEON





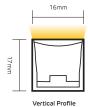
FIREFLY LIGHTING

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	PVC Spec	ifications			Silicone S	Specification	Silicone Specifications			
Part Number	LN-F22S-	RGB-VB			SLN-F22	S-RGB-VB				
Туре	Digital Mu	Iti-Pixel Con	itrol							
Colour	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	80	190	30	300	90	240	40	370		
Lumen/ft	24	58	9	91	27	73	12	113		
Beam Angle, Average (50%)	116.2°				113.5°		•			
Number of Pixels Per Meter	12									
LED Quantity Per Pixel	7									
LED Quantity Per Meter	84									
DMX Channels	3 per pixel	/ 36 per me	eter							
Base Colour	Black base	standard, o	ther colours a	available on requ	est					
Housing	PVC				Silicone					
Cut & Connect Joints	Located E	very 83.34 r	nm							
Minimum Bend Diameter	300 mm	300 mm								
Bending Direction	Vertical Be	ending								
Connectors & Hardware	Factory m	olded conne	ectors, Alumin	ium mounting ch	annels, Plast	ic mounting	channels			
Operating Voltage	24V DC									
Wiring	3-Wire									
Power Consumption	16.5 W/m									
	Single 8 m Dynamic Operation Single 15 m E		Sirigle			n				
Mary Firsterna Deca	end feed	5 m Full S	tatic Load		end feed	10 m Full	JII Static Load			
Max Fixture Runs	Double	16 m Dynamic Operation			Double	30 m Dynamic Operation				
	end feed	10 m Full	Static Load		end feed	20 m Full	Static Load			
Control		/Ethernet via via FloppyD		kBoost System						
Installation Temperature	0 to 45 °C				-40 to 50) °C				
Operating Temperature	-20 to 35	°C			-40 to 45	°C				
Mounting Surface Temperature	60 °C Max	G.			85 °C Ma	X.				
Storage Temperature	-20 to 60	°C			-40 to 60	°C				
Dimensions (WxHxD)	16 mm x 1	17 mm x vari	able							
Ingress Protection		IP67 with Molded connectors IP68 with Double Molded connectors IP68 with Molded connectors								
Listing			'6 (rating requ	uires the use nting), CE-EMC	UL2108 Class 2, CE-EMC					
Warranty	3 Years				5 Years					
Wire Legend										













RGBW - VERTICAL BENDING

MULTI-PIXEL LED NEON





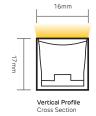
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Phone: +61 7 3254 4333 Email: sales@fireflylighting.com.au

Address: 9/29 Links Ave North, Eagle Farm.

	PVC Spec	ifications	PVC Specifications			Silicone Specifications				
Part Number	LN-F22S-	RGBW-VB			SLN-F22	S-RGBW-VB				
Туре	Digital Mu	Ilti-Pixel Con	trol							
Colour	RGB									
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	80	190	30	190	90	240	40	200		
Lumen/ft	24	58	9	58	27	73	12	61		
Beam Angle, Average (50%)	116.2°				113.5°					
Number of Pixels Per Meter	12									
LED Quantity Per Pixel	7									
LED Quantity Per Meter	84									
DMX Channels	4 per pixel	l / 48 per me	ter							
Base Colour	Black base	e standard, o	ther colours a	available on reque	st					
Housing	PVC				Silicone					
Cut & Connect Joints	Located E	Located Every 83.34 mm								
Minimum Bend Diameter	300 mm	300 mm								
Bending Direction	Vertical Be	Vertical Bending								
Connectors & Hardware	Factory m	Factory molded connectors, Aluminium mounting channels, Plastic mounting channels								
Operating Voltage	24V DC									
Wiring	3-Wire									
Power Consumption	22 W/m									
	Single	8 m Dynamic Operation			Single	12 m Dyn	amic Operatio	n		
M 5:	end feed	5 m Full Si	tatic Load		end feed					
Max Fixture Runs	Double	Double 16 m Dynamic Operation		าก	Double	24 m Dynamic Operation				
	end feed	10 m Full :	Static Load		end feed	16 m Full Static Load				
Control		/Ethernet via via FloppyDr		kBoost System	'					
Installation Temperature	0 to 45 °C				-40 to 50 °C					
Operating Temperature	-20 to 35	°C			-40 to 45	°C				
Mounting Surface Temperature	60 °C Max	ζ.			85 °C Ma	x.				
Storage Temperature	-20 to 60	°C			-40 to 60	°C				
Dimensions (WxHxD)	16 mm x 1	17 mm x vari	able							
Ingress Protection		IP67 with Molded connectors IP68 with Double Molded connectors IP68 with Molded connectors								
Listing		UL2108 Class 2, UL676 (rating requires the use of Thickened Plastic Profile for mounting), CE-EMC				UL2108 Class 2, CE-EMC				
Warranty	3 Years				5 Years					
Wire Legend										













RGB - HORIZONTAL BENDING

MULTI-PIXEL LED NEON





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Address: 9/29 Links Ave North, Eagle Farm.

	PVC Spec	PVC Specifications				Silicone Specifications			
Part Number	LN-F22S-	LN-F22S-RGB-HB				SLN-F22S-RGB-HB			
Туре	Digital Mu	Iti-Pixel Cor	ntrol						
Colour	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	80	190	30	300	90	240	40	370	
Lumen/ft	24	58	9	91	27	73	12	113	
Beam Angle, Average (50%)	116.2°				113.5°				
Number of Pixels Per Meter	12								
LED Quantity Per Pixel	7								
LED Quantity Per Meter	84								
DMX Channels	3 per pixel	/ 36 per me	eter						
Base Colour	Black base	e standard, d	ther colours	available on requ	est				
Housing	PVC				Silicone				
Cut & Connect Joints	Located E	very 83.34 r	mm		'		,		
Minimum Bend Diameter	300 mm								
Bending Direction	Horizontal	Bending							
Connectors & Hardware	Factory m	olded conne	ectors, Alumir	nium mounting ch	annels, Plast	ic mounting	channels		
Operating Voltage	24V DC								
Wiring	3-Wire								
Power Consumption	16.5 W/m								
	Single	8 m Dyna	mic Operation	n	Single	15 m Dyn	amic Operatio	n	
AA	end feed 5 m Full Static Load			end feed	10 m Full	m Full Static Load			
Max Fixture Runs	Double	Double 16 m Dynamic Operation			Double	30 m Dynamic Operation			
	end feed	10 m Full	Static Load		end feed	20 m Full	Static Load		
Control		Ethernet vi		ckBoost System					
Installation Temperature	0 to 45 °C				-40 to 50 °C				
Operating Temperature	-20 to 35	°C			-40 to 45	°C			
Mounting Surface Temperature	60 °C Max	ζ,			85 °C Ma:	Χ.			
Storage Temperature	-20 to 60	°C			-40 to 60	°C			
Dimensions (WxHxD)	16 mm x 1	17 mm x var	iable						
Ingress Protection		IP67 with Molded connectors IP68 with Double Molded connectors					nectors		
Listing				uires the use unting), CE-EMC	UL2108 0	Class 2, CE-E	MC		
Warranty	3 Years				5 Years				
Wire Legend					1				













RGBW - HORIZONTAL BENDING



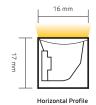
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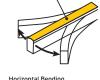
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	PVC Spec	PVC Specifications				Silicone Specifications				
Part Number	LN-F22S-	RGBW-HB			SLN-F229	S-RGBW-HB				
Туре	Digital Mu	ılti-Pixel Con	trol							
Colour	RGB									
Colour/CCT	Red	Green	Blue	White	Red	Green	Blue	White		
Wavelength	618- 624nm	522- 528nm	468- 474nm	2725±145K	618- 624nm	522- 528nm	468- 474nm	2725 ± 85K		
Lumen/m	80	190	30	190	90	240	40	200		
Lumen/ft	24	58	9	58	27	73	12	61		
Beam Angle, Average (50%)	116.2°				113.5°					
Number of Pixels Per Meter	12									
LED Quantity Per Pixel	7									
LED Quantity Per Meter	84		,							
DMX Channels	4 per pixel	l / 48 per me	ter							
Base Colour	Black base	e standard, ol	ther colours a	available on reque	st					
Housing	PVC				Silicone					
Cut & Connect Joints	Located E	Located Every 83.34 mm								
Minimum Bend Diameter	300 mm	300 mm								
Bending Direction	Horizontal	Horizontal Bending								
Connectors & Hardware	Factory m	Factory molded connectors, Aluminium mounting channels, Plastic mounting channels								
Operating Voltage	24V DC									
Wiring	3-Wire									
Power Consumption	22 W/m									
	Single	Single 8 m Dynamic Operation		Single	12 m Dyna	mic Operatio	on			
Max Fixture Runs	end feed	5 m Full St	atic Load		end feed	8 m Full St	atic Load	ic Load		
Max Fixture Ruris	Double	16 m Dyna	mic Operatio	ın	Double	24 m Dynamic Operation				
	end feed	10 m Full 9	Static Load		end feed	16 m Full S	Static Load			
Control		/Ethernet via via FloppyDr		kBoost System						
Installation Temperature	0 to 45 °C	2			-40 to 50 °C					
Operating Temperature	-20 to 35	°C			-40 to 45	5 °C				
Mounting Surface Temperature	60 °C Max	ζ.			85 °C Max	ζ,				
Storage Temperature	-20 to 60	°C			-40 to 60	°C				
Dimensions (WxHxD)	16 mm x 1	17 mm x varia	able							
Ingress Protection		IP67 with Molded connectors IP68 with Double Molded connectors				IP68 with Molded connectors				
Listing				uires the use of ng), CE-EMC	UL2108 Class 2, CE-EMC					
Warranty	3 Years				5 Years					
Wire Legend										











Horizontal Bending 300 mm Minimum Bend

FACTORY MOLDED F22 CONNECTORS

IP67 PVC OR IP68 SILICONE



16mm

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14mm

2mm

(3)

14mm

5mm

2mm

Φ1<u>2mm</u>

16mm

11mm

16mm

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Molded Bottom Entry Connection

Connects FloppyFlex F22 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.



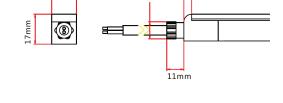
Molded Side Entry Connection

Connects FloppyFlex F22 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 F22 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.



Φ12mm



Molded End Cap

Pre-installed termination protection of FloppyFlex F22, IP67.







Molded End Entry Connection

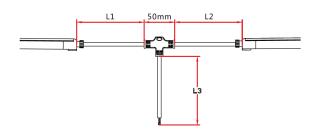
Connects two pieces of FloppyFlex F22 together with a flexible cable, IP67. Cable length available in 0.3 - 1 m. Maximum 8 jumpers per 20 m Maximum 4 jumpers per 10 m





Molded T-Feed Connection

Connects two pieces of FloppyFlex F22 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 F22 CONNECTORS

IP68 PVC ONLY



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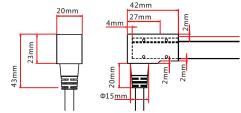
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Double-Molded Bottom Entry Connection

Connects FloppyFlex F22 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.

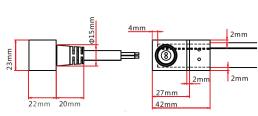




Double-Molded Side Entry Connection

Connects FloppyFlex F22 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.

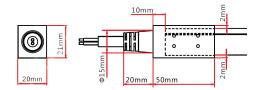




Double-Molded End Entry Connection

Connects FloppyFlex F22 to power supply with pre-installed end feed cable, IP68.

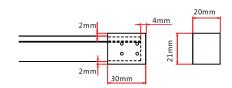
Cable length available in 0.3 m, 1 m, 3 m, 5 m, 10 m.





Double-Molded End Cap

Pre-installed termination protection of FloppyFlex F22, IP68.





Double-Molded End Entry Connection

Connects two pieces of FloppyFlex F22 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



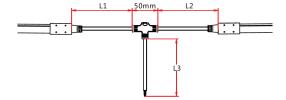


Double-Molded T-Feed Connection

Connects two pieces of FloppyFlex F22 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











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 EZ-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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Floppy Drive 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





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 1-10V DC, 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











ALUMINIUM CHANNEL

SELF LOCKING



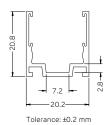
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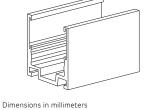
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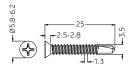
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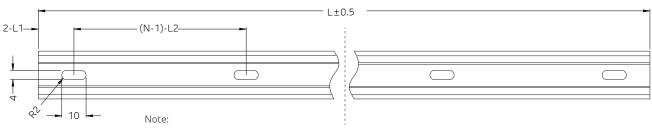


Versatile self-locking profile can be used to mount FloppyFlex F22 LED neon in any orientation including overhead at any angle. Extruded 6063 aluminum construction with elastic serrated grip tape hold the FloppyFlex neon firmly through varying temperatures of -20 to +70 °C.









- 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-F22-A1-02	20 mm	10 mm	N/A	4x10 mm	1
LNCH-F22-A1-05	500 mm	50 mm	200 mm	4x10 mm	3
LNCH-F22-A1-1	1000 mm	100 mm	200 mm	4x10 mm	5
LNCH-F22-A1-2	2000 mm	100 mm	200 mm	4x10 mm	10



FLANGE ALUMINIUM CHANNEL

RECESSED SELF LOCKING



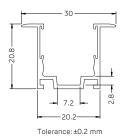
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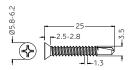
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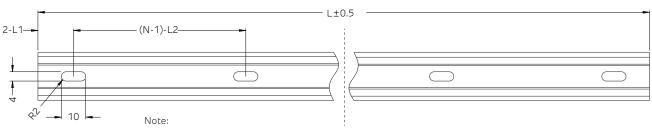


Versatile self-locking profile can be used to mount recessed FloppyFlex F22 LED neon in any orientation including overhead at any angle. Extruded 6063 aluminum construction with elastic serrated grip tape hold the FloppyFlex neon firmly through varying temperatures of -20 to +70 °C.









- 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-F22-A3-02	20 mm	10 mm	N/A	4x10 mm	1
LNCH-F22-A3-05	500 mm	50 mm	200 mm	4x10 mm	3
LNCH-F22-A3-1	1000 mm	100 mm	200 mm	4x10 mm	5
LNCH-F22-A3-2	2000 mm	100 mm	200 mm	4x10 mm	10





THICKENED PLASTIC CHANNEL



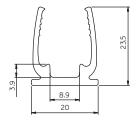
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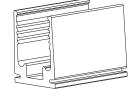
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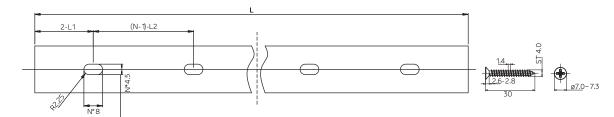
Non-metalic profile specially designed for FloppyFlex F22 LED neon in fully-submersed underwater applications up to 2 meters in depth. Thickened Polycarbonate construction to 3mm thickness. Excellent corrosion and fracture resistance properties. Can be mounted in any orientation including overhead at any angle.





Tolerance: ±0.3mm

Dimensions in 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 table below.

Part Number	Length	L1	L2	Slotted Hole	Number of Holes
LNCH-F22-P1-35	35 mm	17.5 mm	N/A	4.5x8 mm	1
LNCH-F22-P1-05	500 mm	50 mm	200 mm	4.5x8 mm	3
LNCH-F22-P1-1	1000 mm	100 mm	200 mm	4.5x8 mm	5
LNCH-F22-P1-2	2000 mm	100 mm	200 mm	4.5x8 mm	10





