FORTE 3D LARGE RGBW

Outdoor · 3D Bending · RGBW

Date | Fixture type

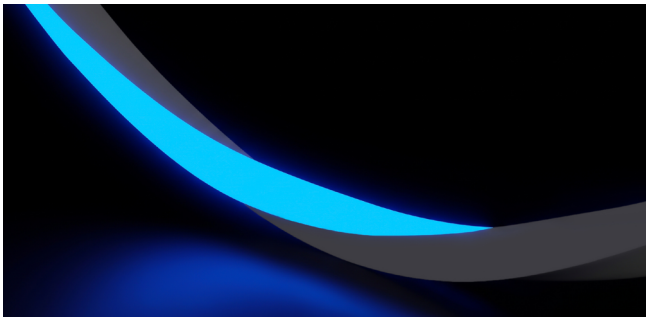
Project name | Project phase

Features

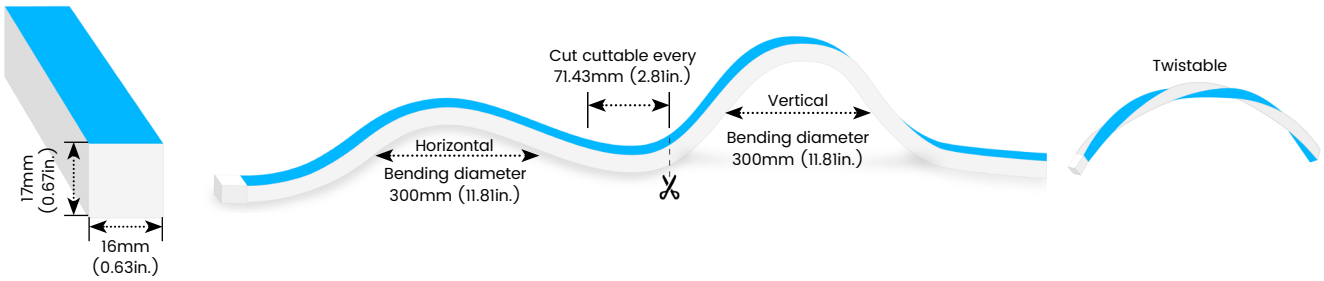
- Robust & uniform silicone body with changeable RGBW colors
- Multi-directional bending design for flexible installations
- IP68 rated, ideal for outdoor uses, not for underwater project
- 3 years warranty

Applications

Architectural facades, building contours, landscape accents, bridges, walkways, transit hubs, staircases, and outdoor feature walls, etc.



Bending Directions & Diameters



Order Code

Model	Environment	Voltage	CCT	Power	End Cap
F3DL	**W8**-Wet (IP68)	**24V**-DC24V	**RGBW27K**-RGBW2700K **RGBW30K**-RGBW3000K **RGBW35K**-RGBW3500K **RGBW40K**-RGBW4000K	**135**-13.5W/M	**FT** Flush Translucent **FO** Flush Opaque

Assembly Builder

Left Feed Entry		
F	Front	**OW** Open wire 300mm (11.81in.)
B	Bottom	**OA** Open Wire with Anti-Wicking Ferrule
S	Side	**MC** Male connector with 300mm (11.81in.) cable
C	Closed	**FC** Female connector with 300mm (11.81in.)cable
		NA Only for Closed Feed Entry

Assembly Builder

Right Feed Entry		
F	Front	**OW** Open wire 300mm (11.81in.)
B	Bottom	**OA** Open Wire with Anti-Wicking Ferrule
S	Side	**MC** Male connector with 300mm (11.81in.) cable
C	Closed	**FC** Female connector with 300mm (11.81in.)cable
		NA Only for Closed Feed Entry

Length	
Max. nominal	8m (26.2ft)
Increment	71.43mm (2.81in.)

*We will list the nearest actual manufacturing length on the quotation, based on your requested length.

Mounting Order Code

Product Code
Please select on the Mounting Options page

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Lumen Output (lm/m)

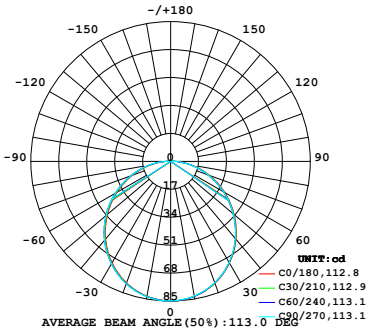
CCT	13.5W/M
R	31
G	107
B	21
W27K	95
W30K	97
W35K	99
W40K	99
RGBW27K	247
RGBW30K	253
RGBW35K	260
RGBW40K	260
Max. Run Length	8m

Techinical Details

Efficacy	19lm/W @RGBW30K 13.5W
CRI	Ra≥80
Beam Angle	110°
Average Life (L70B10)	>32,000 hours
Storage Temperature	-40°C~ 65°C
Operating Temperature	-40°C~ 65°C

Photometry

F3DL-W8-24V-RGBW30K-135-FT-F-OW-F-OW
FORTE 3D LARGE RGBW, 3D Bend, RGBW30K, 13.5W/M



Zonal Lumen Summary

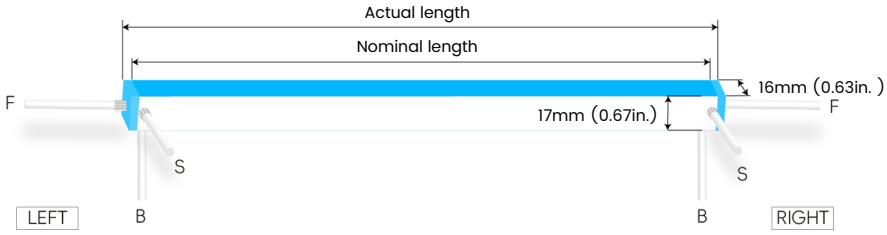
Zone	Lumen	% Fixture
0-30	65.8	25.9%
0-40	107.7	42.5%
0-60	190.8	75.2%
0-90	249.6	98.4%
0-180	253.6	100.0%

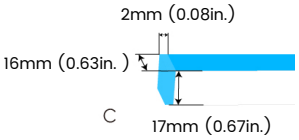
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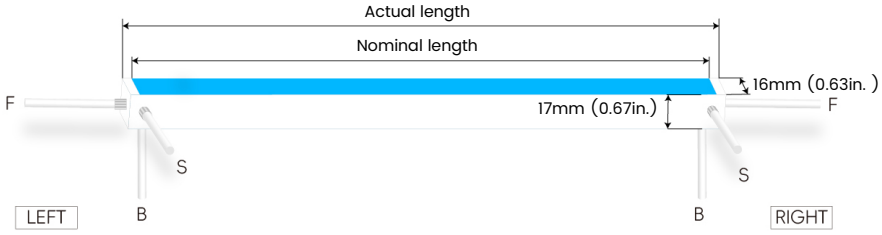
Feed Entry / End Cap Options

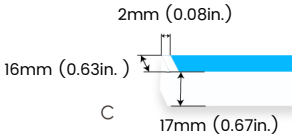
FT: Flush Translucent – IP68, factory-made only



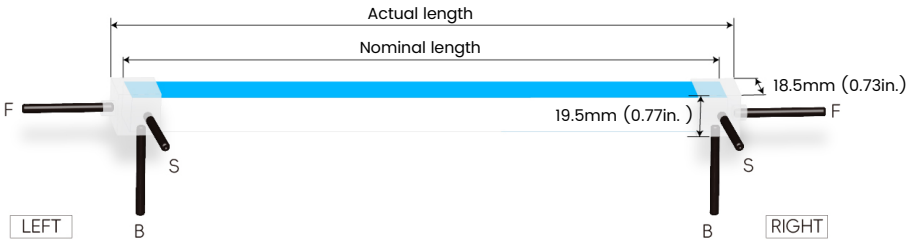


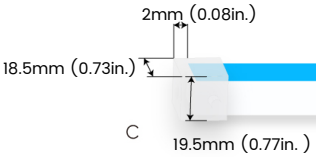
FO: Flush Opaque – IP68, factory-made only



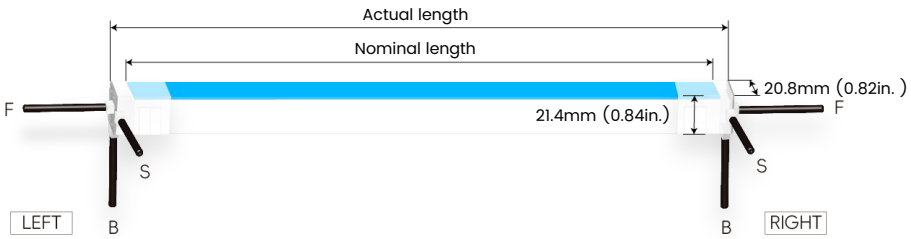


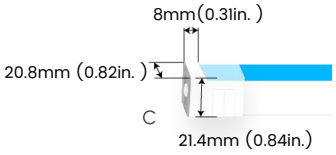
Silicone end cap – IP67, for field cuttable only





Mechanical end cap with screws – IP67, for field cuttable only

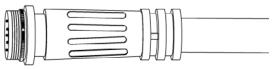




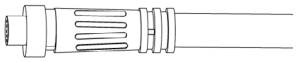
Connector Wire Options



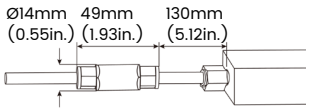
OW: Open wire, **Dry only**
Standard 300mm (11.81in.),20 AWG,
wire length customizable



MC: Male connector, **Wet**
Standard 300mm (11.81in.), 20 AWG

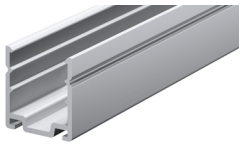
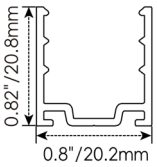


FC: Female connector, **Wet**
Standard 300mm (11.81in.), 20 AWG



OA: Open Wire with **Anti-Wicking Ferrule, Wet**
Standard 300mm (11.81in.),20 AWG,
Protects against water ingress through the power cable

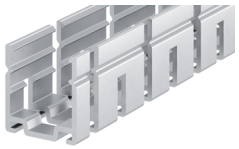
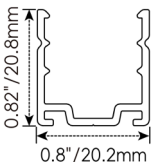
Mounting Options



NF1617-SC

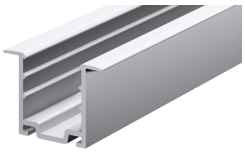
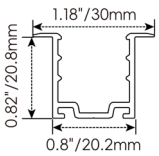
Name	Straight surface channel
Material	Aluminum
Standard Length	1m (3.28ft)




NF1617-BC

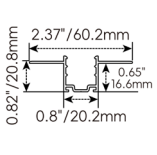
Name	Bendable surface channel
Material	Aluminum
Standard Length	1m (3.28ft)
Min. Bending Diameter	600mm(23.6in.)



NF1617-RC

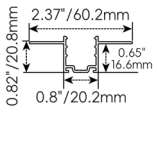
Name	Straight recessed channel
Material	Aluminum
Standard Length	1m (3.28ft)



NF1617-MC

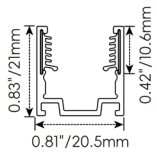
Name	Mud-in channel
Material	Aluminum
Standard Length	1m (3.28ft)




NF1617-BMC

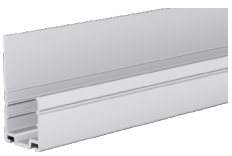
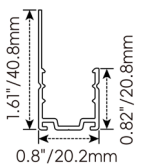
Name	Bendable mud-in channel
Material	Aluminum
Standard Length	1m (3.28ft)
Min. Top Bending Diameter	600mm(23.6in.)
Min. Side Bending Diameter	1600mm(63in.)



NF1617-SCS

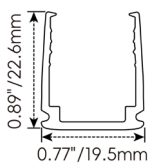
Name	Straight surface channel
Material	Aluminum with silicone groove
Standard Length	1m (3.28ft)



NF1617-LBC

Name	Light-block channel
Material	Aluminum
Standard Length	1m (3.28ft)

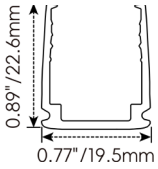





NF1617-PC

Name	PC channel
Material	Polycarbonate
Standard Length	1m (3.28ft)

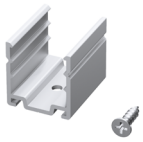
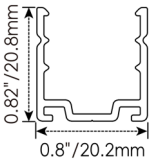
Mounting Options



NF1617-BPC

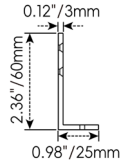
Name	Bendable surface channel
Material	Polycarbonate
Standard Length	1m (3.28ft)
Min. Bending Diameter	300mm (11.81in.)



NF1617-CL

Name	Mounting clip
Material	Aluminum
Standard Length	25mm (0.98in.)

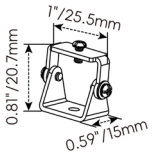






NF1617-LS

Name	L-shaped mounting bracket
Material	Aluminum
Standard Length	20mm(0.79in.)

* NF1617-LS must be installed with NF1617-SC

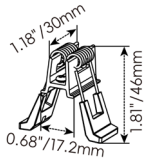



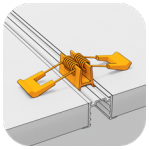



NF1617-AC

Name	Adjustable mounting clip
Material	Stainless steel
Standard Length	25.5mm (1 in.)

* NF1617-AC must be installed with NF1617-SC




NF1617-RC-SPC

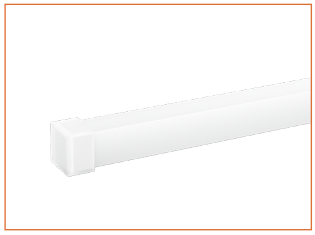
Name	Spring clip
Standard Pkg	1pcs

* NF1617-RC-SPC must be installed with NF1617-RC

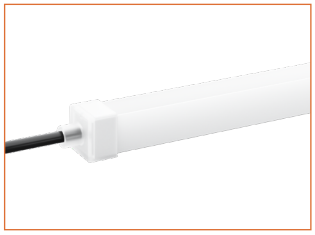
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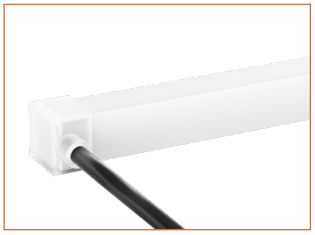
Silicone End Caps (Optional, purchase for extra)



NF1617-SEC-C
Silicone closed end cap



NF1617-SEC-F-5P
Silicone end cap front entry with 300mm (11.81in.) cable, 5 pin



NF1617-SEC-S-5P
Silicone end cap side entry with 300mm (11.81in.) cable, 5 pin



NF1617-SEC-B-5P
Silicone end cap bottom entry with 300mm (11.81in.) cable, 5 pin

Additional Accessories (Optional, purchase for extra)



MCW-5P-67
Male connector,
300mm (11.81in.) white cable,
5 pin, IP67, Wet, 20 AWG



FCW-5P-67
Female connector,
300mm (11.81in.) white cable,
5 pin, IP67, Wet, 20 AWG



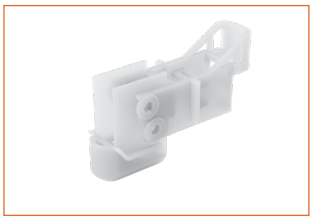
MCB-5P-67
Male connector,
300mm (11.81in.) black cable,
5 pin, IP67, Wet, 20 AWG



FCB-5P-67
Female connector,
300mm (11.81in.) black cable,
5 pin, IP67, Wet, 20 AWG



ADJS
1 Adjustable Angle Scissors Set,
with 4 Spare Blades



NF1617-IT
Installation tool for NF1617-BPC

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Drivers

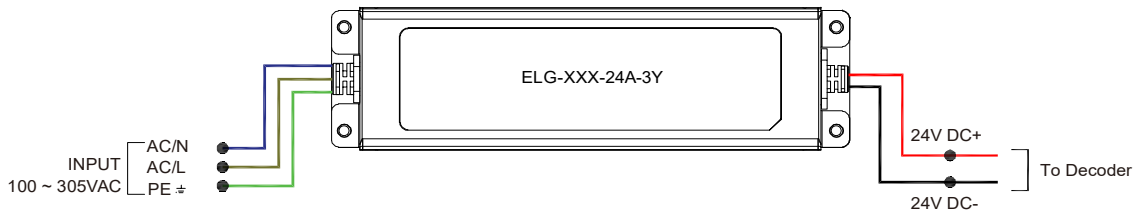
Non-dimmable

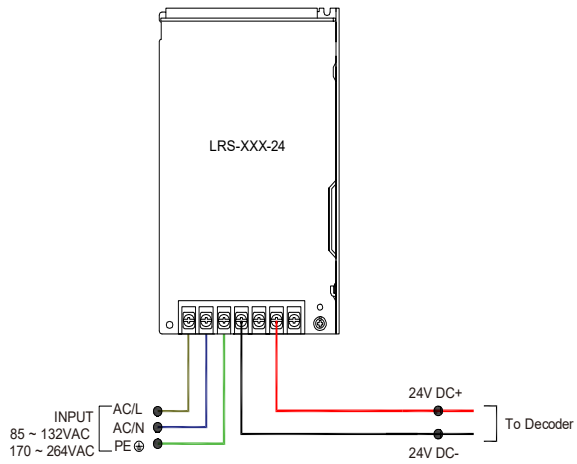
Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24A-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm
LRS-150-24	150W	85-132VAC / 170-264VAC	24V	Dry	159 * 97 * 30 mm

DMX-Decoders & Controllers Options

Type	Code	Description	Environment	Size (L x W x H)
DMX Decoders	D4-F	4 channels output, Max. 5A current per channel, up to 480W output power	Indoor	175 * 42 * 33 mm
Controllers	EX4S	512 DMX channels	Indoor	86 * 86 * 36 mm
Power Repeaters	LT-3040-5A	4 channels output, Max. 5A current per channel, up to 480W output power	Indoor	175 * 44 * 30 mm
Signal Amplifier	LT-123	DMX(485) signal amplifier, 1 input / 3 outputs	Indoor	192 * 80 * 41 mm

Wiring Diagram





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24V Voltage Drop & Maximum Wire Length Chart

Based on 24V voltage with a 3% voltage drop allowance. Indicates the maximum wire length from the power supply to the start of the run.

Total load	8AWG	10AWG	12AWG	14AWG	16AWG	18AWG	20AWG	22AWG
10W / 0.4A	484.0m	304.5m	191.4m	120.4m	75.5m	47.5m	29.8m	18.5m
20W / 0.8A	242.0m	152.1m	95.7m	60.0m	37.8m	23.7m	14.9m	9.1m
30W / 1.3A	161.2m	101.5m	63.7m	39.9m	24.9m	15.8m	9.7m	6.1m
40W / 1.7A	121.0m	75.9m	47.8m	29.8m	18.9m	11.8m	7.3m	4.5m
50W / 2.1A	96.6m	60.6m	38.1m	24.0m	14.9m	9.4m	5.7m	3.6m
60W / 2.5A	80.4m	50.6m	31.7m	19.8m	12.5m	7.9m	4.8m	3.0m
70W / 2.9A	68.8m	43.2m	27.1m	17.0m	10.6m	6.7m	4.2m	2.4m
80W / 3.3A	60.3m	37.8m	23.7m	14.9m	9.4m	5.7m	3.6m	2.1m
90W / 3.8A	53.6m	33.8m	21.0m	13.1m	8.2m	5.1m	3.0m	1.8m
100W / 4.2A	48.1m	30.1m	18.9m	11.8m	7.3m	4.5m	2.7m	1.8m
110W / 4.6A	43.8m	27.4m	17.3m	10.6m	6.7m	4.2m	2.7m	1.5m
120W / 5.0A	40.2m	25.3m	15.8m	9.7m	6.1m	3.9m	2.4m	1.5m
130W / 5.4A	37.1m	23.1m	14.6m	9.1m	5.7m	3.6m	2.1m	1.2m
140W / 5.8A	34.4m	21.6m	13.4m	8.5m	5.1m	3.3m	2.1m	1.2m
150W / 6.3A	32.0m	20.1m	12.5m	7.9m	4.8m	3.0m	1.8m	1.2m
160W / 6.7A	30.1m	18.9m	11.8m	7.3m	4.5m	2.7m	1.8m	0.9m
170W / 7.1A	28.3m	17.6m	10.9m	7.0m	4.2m	2.7m	1.5m	0.9m
180W / 7.5A	26.8m	16.7m	10.3m	6.7m	3.9m	2.4m	1.5m	0.9m
190W / 7.9A	25.3m	15.8m	10.0m	6.0m	3.9m	2.4m	1.5m	0.9m
200W / 8.3A	24.0m	14.9m	9.4m	5.7m	3.6m	2.1m	1.2m	0.9m
210W / 8.8A	22.8m	14.3m	8.8m	5.4m	3.3m	2.1m	1.2m	0.6m
220W / 9.2A	21.9m	13.7m	8.5m	5.4m	3.3m	2.1m	1.2m	0.6m
230W / 9.6A	21.0m	13.1m	8.2m	5.1m	3.0m	1.8m	1.2m	0.6m
240W / 10.0A	20.1m	12.5m	7.9m	4.8m	3.0m	1.8m	1.2m	0.6m
250W / 10.4A	19.2m	12.1m	7.6m	4.5m	2.7m	1.8m	0.9m	0.6m