FORTE 3D LARGE

3D Bending · Static White

Features

- Flexible 3D bending for seamless integration with complex contours
- IK10 impact resistance for demanding environments
- IP68 rated, ideal for outdoor uses, not for underwater project
- 5 years warranty

FORTE 3D LARGE HE
- Up to 114.4 lm/W(1098 lm/M) for energy-efficient illumination
- 11m single-feed runs for facades and architectural accents

FORTE 3D LARGE LONG RUN
- Up to 55m single-feed for seamless, uninterrupted light lines
- Ideal for maximum single-feed length with minimal power access

Date | Fixture type

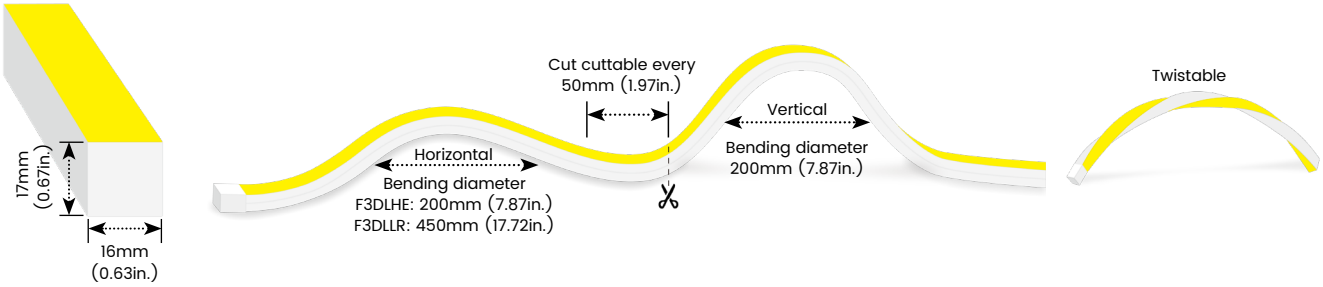
Project name | Project phase



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
F3DLHE **F3DLLR**	**W8**-Wet (IP68)	**24V**-DC24V	**22K**-2200K **27K**-2700K **30K**-3000K **35K**-3500K **40K**-4000K **57K**-5700K	**048**-4.8W/M (F3DLLR only) **096**-9.6W/M (F3DLHE/F3DLLR)	**FT** Flush Translucent **FO** Flush Opaque

*F3DLHE:FORTE 3D LARGE HE
*F3DLLR:FORTE 3D LARGE LONG RUN

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 *For F3DLHE	11m(36ft)
Max. nominal *For F3DLLR, 4.8W/M	55m(180ft)
Max. nominal *For F3DLLR, 9.6W/M	40m(131ft)
Increment	50mm(1.97in.)

*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)

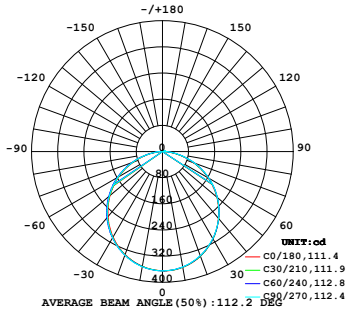
CCT	FORTE 3D LARGE HE	FORTE 3D LARGE LONG RUN	
	9.6W/M	4.8W/M	9.6W/M
2200K	859	334	622
2700K	975	373	695
3000K	1061	397	736
3500K	1093	409	760
4000K	1098	406	754
5700K	1013	393	735
Max. Run Length	11m	55m	40m

Techinical Details

Parameter	FORTE 3D LARGE HE	FORTE 3D LARGE LONG RUN
Efficacy	110.5lm/W @3000K 9.6W	76.7lm/W @3000K 9.6W
CRI	Ra≥90	Ra≥90
Beam Angle	110°	110°
LED MacAdam	3 steps	3 steps
IK Rating	IK10 (with aluminium profile)	IK10 (with aluminium profile)
Average Life (L70B10)	>44,000 hours	>44,000 hours
Storage Temperature	-40°C~ 65°C	-40°C~ 65°C
Operating Temperature	-40°C~ 65°C	-40°C~ 65°C

Photometry

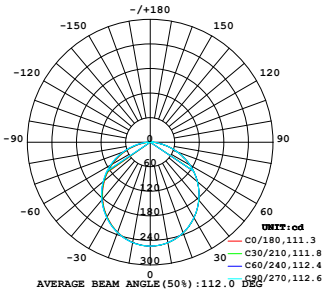
F3DLHE-W8-24V-30K-096-FT-F-OW-F-OW
FORTE 3D LARGE HE, 3D Bend, 3000K, 9.6W/M



Zonal Lumen Summary

Zone	Lumen	% Fixture
0-30	281.9	26.6%
0-40	460.9	43.4%
0-60	814.2	76.7%
0-90	1041.0	98.1%
0-180	1061.0	100.0%

F3DLLR-W8-24V-30K-096-FT-F-OW-F-OW
FORTE 3D LARGE LONG RUN, 3D Bend, 3000K, 9.6W/M



Zonal Lumen Summary

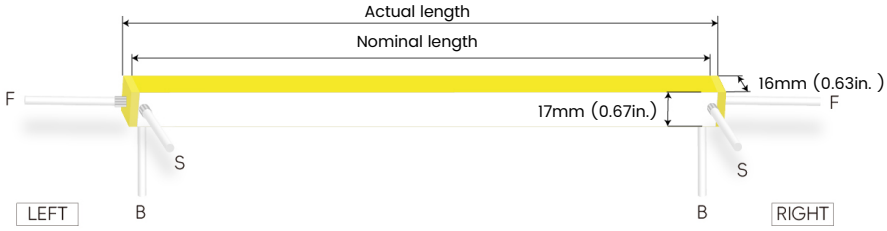
Zone	Lumen	% Fixture
0-30	196.1	26.6%
0-40	320.5	43.5%
0-60	566.3	76.9%
0-90	722.9	98.1%
0-180	736.7	100.0%

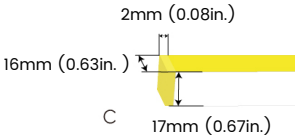
FORTE 3D LARGE

3D Bending · Static White

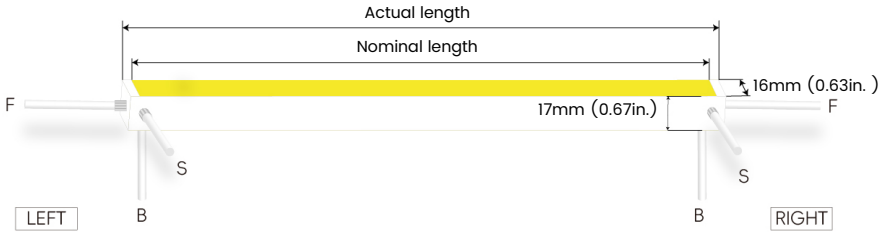
Feed Entry / End Cap Options

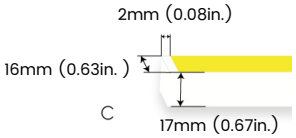
FT: Flush Translucent – IP68, factory-made only



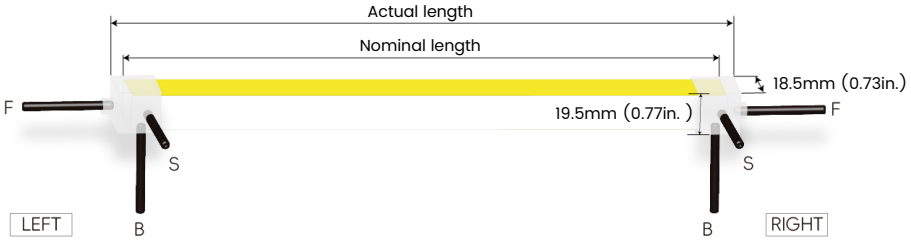


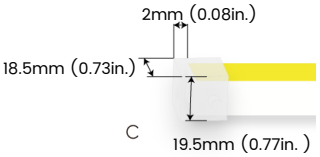
FO: Flush Opaque – IP68, factory-made only



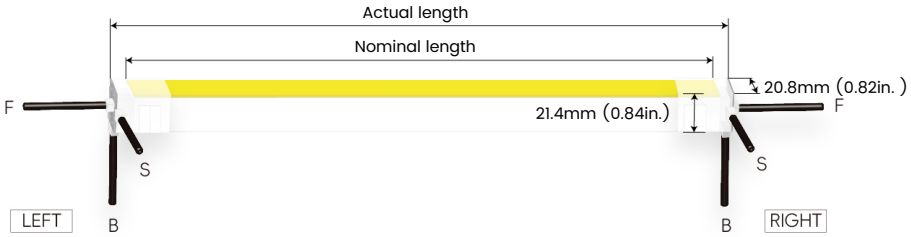


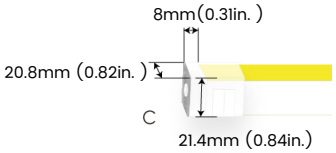
Silicone end cap – IP67, for field cuttable only





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

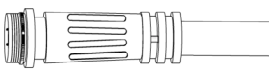




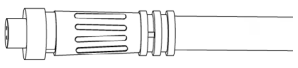
Connector Wire Options



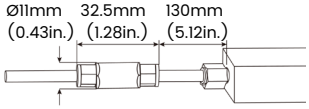
OW: Open wire, **Dry only**
Standard 300mm (11.81in.),
18 AWG for FORTE 3D LARGE HE,
16 AWG for FORTE 3D LARGE LONG RUN,
wire length customizable



MC: Male connector, **Wet**
Standard 300mm (11.81in.),
18 AWG for FORTE 3D LARGE HE,
16 AWG for FORTE 3D LARGE LONG RUN

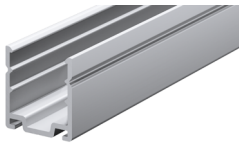
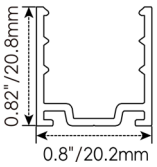


FC: Female connector, **Wet**
Standard 300mm (11.81in.),
18 AWG for FORTE 3D LARGE HE,
16 AWG for FORTE 3D LARGE LONG RUN



OA: Open Wire with **Anti-Wicking Ferrule, Wet**
Standard 300mm (11.81in.),
18 AWG for FORTE 3D LARGE HE,
16 AWG for FORTE 3D LARGE LONG RUN,
Protects against water ingress through the power cable

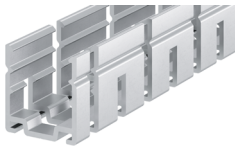
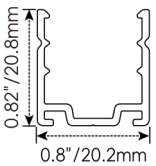
Mounting Options



NF1617-SC

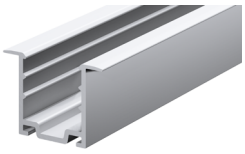
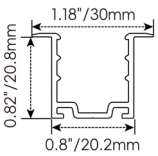
Name	Straight surface channel
Material	Aluminum
Standard Length	1m (3.28ft)




NF1617-BC

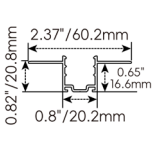
Name	Bendable surface channel
Material	Aluminum
Standard Length	1m (3.28ft)
Min. Bending Diameter	600mm(23.6in.)



NF1617-RC

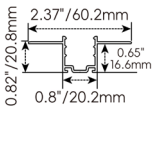
Name	Straight recessed channel
Material	Aluminum
Standard Length	1m (3.28ft)



NF1617-MC

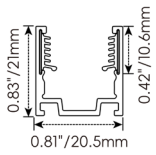
Name	Mud-in channel
Material	Aluminum
Standard Length	1m (3.28ft)




NF1617-BMC

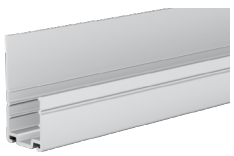
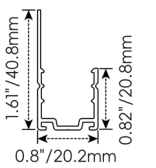
Name	Bendable mud-in channel
Material	Aluminum
Standard Length	1m (3.28ft)
Min. Top Bending Diameter	600mm(23.6in.)
Min. Side Bending Diameter	1600mm(63in.)



NF1617-SCS

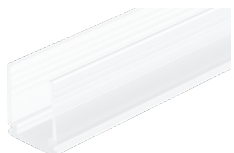
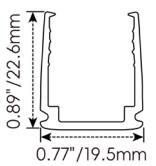
Name	Straight surface channel
Material	Aluminum with silicone groove
Standard Length	1m (3.28ft)



NF1617-LBC

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

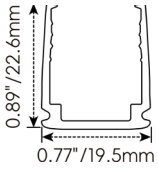





NF1617-PC

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

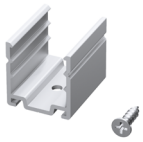
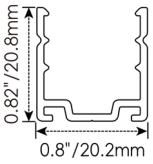
Mounting Options




NF1617-BPC

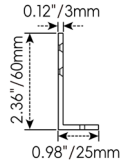
Name	Bendable surface channel
Material	Polycarbonate
Standard Length	1m (3.28ft)
Min. Bending Radius	150mm (5.91in.)



NF1617-CL

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

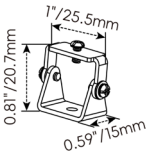






NF1617-LS

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

* NF1617-LS must be installed with NF1617-SC

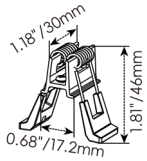



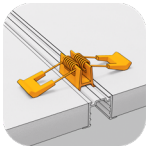



NF1617-AC

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

* NF1617-AC must be installed with NF1617-SC




NF1617-RC-SPC

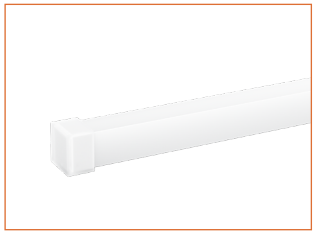
Name	Spring clip
Standard Pkg	1pcs

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

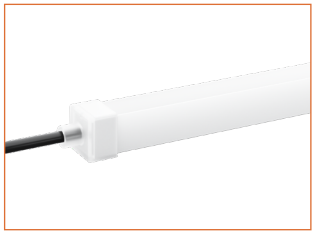
FORTE 3D LARGE

3D Bending · Static White

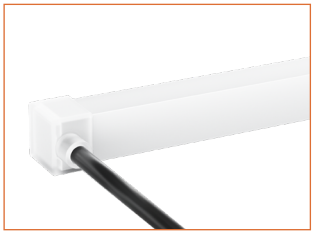
Silicone End Caps (Optional, purchase for extra)



NF1617-SEC-C
Silicone closed end cap



NF1617-SEC-F-2P
Silicone end cap front entry with 300mm (11.81in.) cable, 2 pin

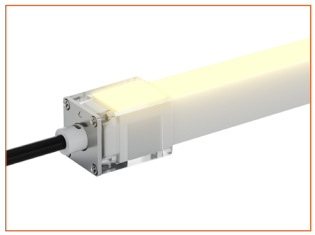


NF1617-SEC-S-2P
Silicone end cap side entry with 300mm (11.81in.) cable, 2 pin

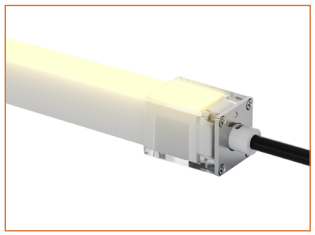


NF1617-SEC-B-2P
Silicone end cap bottom entry with 300mm (11.81in.) cable, 2 pin

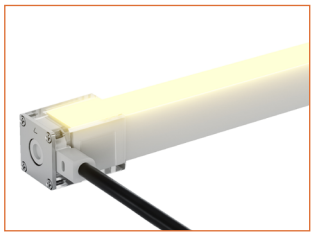
Solderless & Glueless Mechanical End Caps for FORTE 3D LARGE LONG RUN only (Optional, purchase for extra)



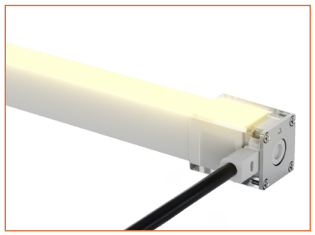
NF1617T-MEC-LF-2P
Mechanical end cap with screws, left front entry, 300mm (11.81in.) cable, 2 pin, IP67



NF1617T-MEC-RF-2P
Mechanical end cap with screws, right front entry, 300mm (11.81in.) cable, 2 pin, IP67



NF1617T-MEC-LS-2P
Mechanical end cap with screws, left side entry, 300mm (11.81in.) cable, 2 pin, IP67



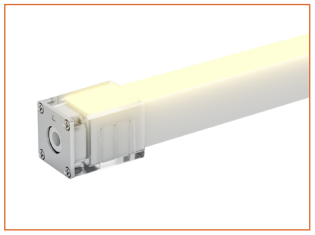
NF1617T-MEC-RS-2P
Mechanical end cap with screws, right side entry, 300mm (11.81in.) cable, 2 pin, IP67



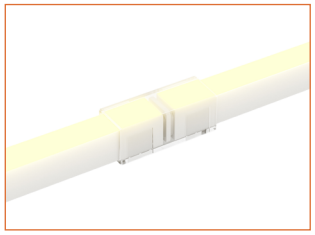
NF1617T-MEC-LB-2P
Mechanical end cap with screws, left bottom entry, 300mm (11.81in.) cable, 2 pin, IP67



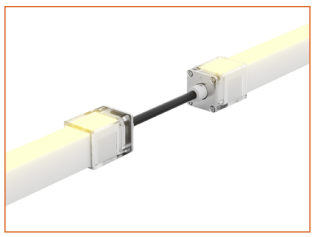
NF1617T-MEC-RB-2P
Mechanical end cap with screws, right bottom entry, 300mm (11.81in.) cable, 2 pin, IP67



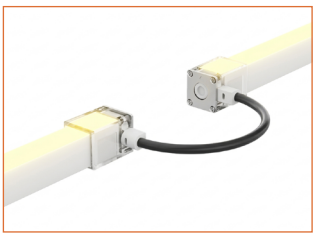
NF1617T-MEC-C
Mechanical closed end cap with screws, IP67



NF1617T-S-S-2P
Strip to strip connector, 2 pin, IP54



NF1617T-JC-F-2P
Jumper connector front entry, 150mm (5.9in.) cable, 2 pin, IP67



NF1617T-JC-S-2P
Jumper connector side entry, 150mm (5.9in.) cable, 2 pin, IP67



NF1617T-JC-B-2P
Jumper connector bottom entry, 150mm (5.9in.) cable, 2 pin, IP67

Additional Accessories (Optional, purchase for extra)



MCW-2P-67
Male connector,
300mm (11.81in.) white cable,
2 pin, IP67, Wet, 18 AWG



FCW-2P-67
Female connector,
300mm (11.81in.) white cable,
2 pin, IP67, Wet, 18 AWG



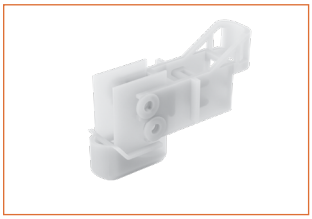
MCB-2P-67
Male connector,
300mm (11.81in.) black cable,
2 pin, IP67, Wet, 18 AWG



FCB-2P-67
Female connector,
300mm (11.81in.) black cable,
2 pin, IP67, Wet, 18 AWG



ADJS
1 Adjustable Angle Scissors Set,
with 4 Spare Blades



NF1617-IT
Installation tool for NF1617-BPC

FORTE 3D LARGE

3D Bending · Static White

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

3 in 1-dimmable

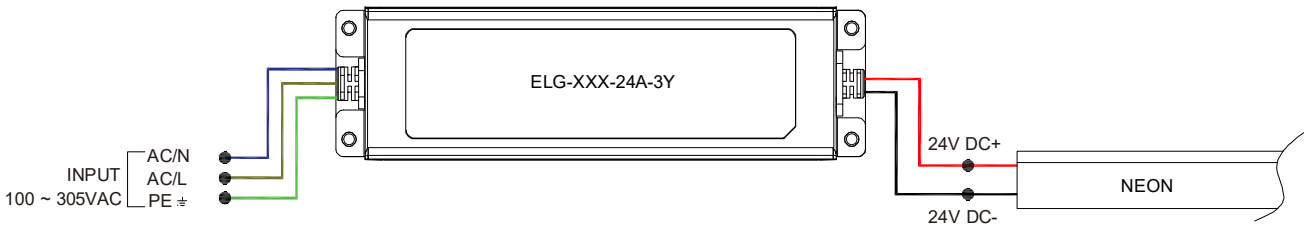
Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24B-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm

DALI-dimmable

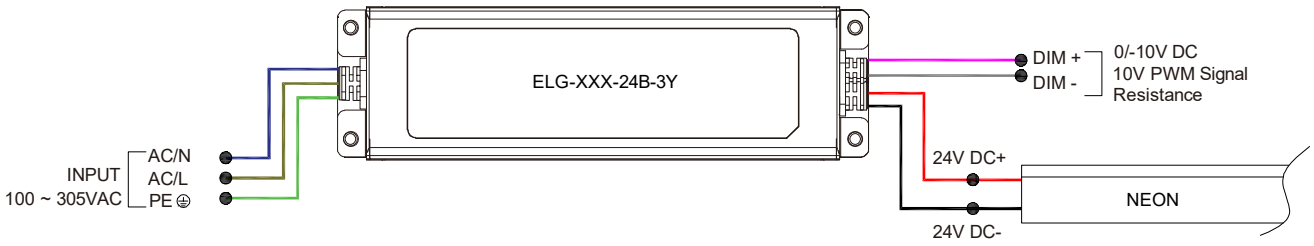
Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24DA-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm

Wiring Diagram

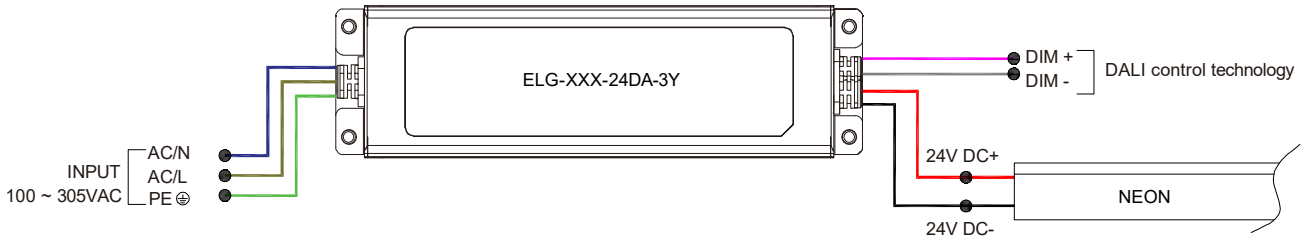
Non-dimmable



3 in 1-dimmable



DALI-dimmable



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