LEDPRO

LEDPRO · 48V DC · NEON-FLEX

Neon-Flex S22 Ultra-Long 48V

Long-distance flexible linear lighting for architectural and infrastructure projects. Engineered for long runs with single-end power supply, with maximum length dependent on power rating.

Flexibele lineaire verlichting voor lange afstanden in architecturale en infrastructurele projecten. Ontwikkeld voor lange lengtes met enkelzijdige voeding, waarbij de maximale lengte afhankelijk is van het vermogensniveau.

- Up to 200 m at 2 W/m
- DC 48V
- IP68
- CRI >80
- 125 mm cut interval
- Min. bend radius Ø 300 mm

22 × 19 mm	2–12 W/m	2700–5700 K	Up to 200 m
Light body dimensions	Four power options	Four colour temperatures	At 2 W/m, configured run

Key advantages

Long continuous runs

Maximum configured lengths up to 200 metres with single-side feeding at the lowest power rating.

Lange lichtlijnen — Geconfigureerde lengtes tot 200 meter bij enkelzijdige voeding en het laagste vermogen.

Fewer feed points

Longer supply sections can reduce the number of required feed locations and simplify project execution.

Minder voedingspunten — Langere voedingssecties kunnen het aantal aansluitpunten beperken en de installatie vereenvoudigen.

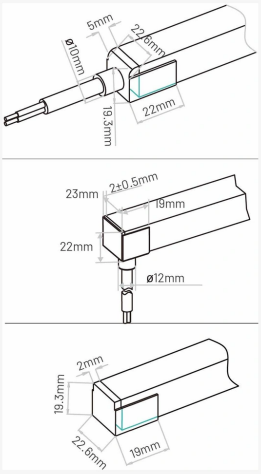
Outdoor-ready design

IP68 flexible linear lighting suitable for demanding architectural and infrastructure applications.

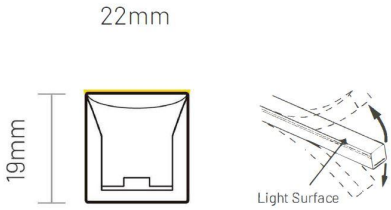
Geschikt voor buitengebruik — IP68 lineaire verlichting voor veeleisende architecturale en infrastructurele toepassingen.

Dimensions & bend radius

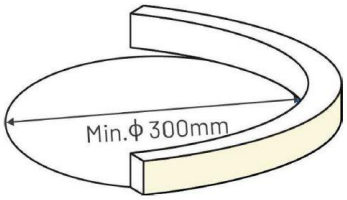
22 × 19 mm cross-section, connection dimensions and minimum bending diameter. Click a drawing to enlarge.



Main dimensional drawings of the S22 line and moulded connection options.



Cross-section detail with the 22 × 19 mm body size and light-surface direction.



Separate bend-radius visual: minimum bend radius Ø 300 mm.

Tip: click the images to view them larger.

Important dimensions

22 × 19 mm
Nominal light body size

Ø 300 mm
Minimum bend radius

125 mm
Minimum cutting length

111.7°
Average beam angle (50%)

Technical specifications

LEDPRO product series	Neon-Flex S22 / NF-S22
Supply voltage	48 V DC
Rated power	2 / 6 / 9 / 12 W/m
Colour temperatures	2700 / 3000 / 4000 / 5700 K
Colour rendering	CRI >80
Ingress protection	IP68
Minimum cutting length	125 mm
Light body dimensions	22 × 19 mm
Weight	522 g/m
Ambient operating temperature	−40 to +55 °C
Storage temperature	−40 to +50 °C
Maximum mounting surface temperature	85 °C
Minimum bend radius	Ø 300 mm
Average beam angle (50%)	111.7°

Maximum single-end feed length

Rated power	Maximum run length	Maximum connected load
2 W/m	200 m	400 W
6 W/m	140 m	840 W
9 W/m	120 m	1,080 W
12 W/m	100 m	1,200 W

Maximum connected load is calculated as rated W/m × maximum run length. The run may consist of multiple interconnected sections; it is not restricted to 20 m sections. Confirm driver capacity, connections, cable sizing and voltage drop for each installation.

Light output by power and colour temperature

Power (W/m)	2700 K (lm/m)	3000 K (lm/m)	4000 K (lm/m)	5700 K (lm/m)	Max. feed
2	>120	>130	>140	>140	200 m
6	>340	>360	>360	>360	140 m
9	>520	>540	>550	>550	120 m
12	>700	>720	>740	>740	100 m

Available configurations

Power	Example LEDPRO code	Example description
2 W/m	`NF-S22-VB-48CC-30K-WM-80-2W-125`	3000 K · CRI 80 · 125 mm cut interval
6 W/m	`NF-S22-VB-48CC-30K-WM-80-6W-125`	3000 K · CRI 80 · 125 mm cut interval
9 W/m	`NF-S22-VB-48CC-30K-WM-80-9W-125`	3000 K · CRI 80 · 125 mm cut interval
12 W/m	`NF-S22-VB-48CC-30K-WM-80-12W-125`	3000 K · CRI 80 · 125 mm cut interval

Base format: `NF-S22-VB-48CC-[CCT]-WM-80-[POWER]-125`

Accessories & mounting profiles

Connection options and factory-fitted finishes are presented with their corresponding product images. The power-feed connectors and end cap are moulded onto the Neon-Flex at the factory; they are not supplied as loose fittings.

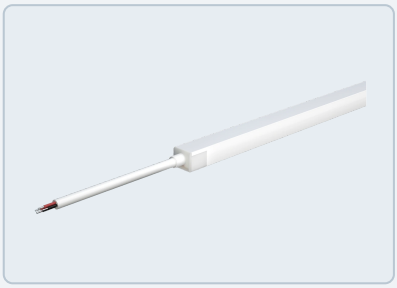
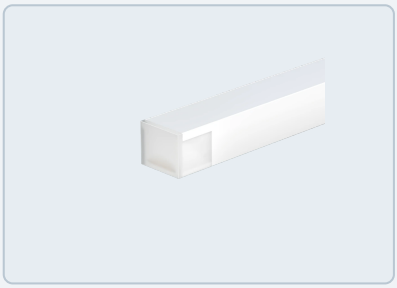
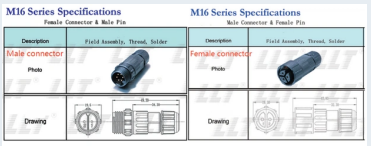
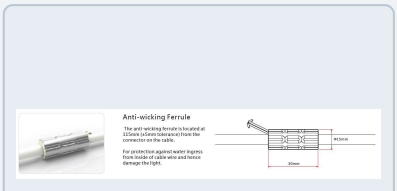
Image	Accessory / profile	Description	Reference
	**Power cable – end feed**	IP68 silicone injection-moulded front connector with end cable exit.	`NF-S22-VB-SIM/ FC-01/02-E`
	**Power cable – bottom feed**	IP68 silicone injection-moulded front connector with bottom cable exit.	`NF-S22-VB-SIM/ FC-01/02-B`
	**Factory-moulded end cap**	IP68 silicone end cap, permanently factory-moulded onto the end of the S22 line. Not supplied as a loose fitting.	`NF-S22-SIM/ EC`
	**Male & female connector**	Optional plug-and-play cable junction for Ultra-long 48V applications.	M16 connector set
	M16 connector specifications	Male and female connector specification drawing.	M16 series

Image	Accessory / profile	Description	Reference
			
	**Serrated aluminium profile**	Serrated aluminium mounting profile, 26.6 × 26.5 mm; standard lengths 20, 500, 1000 and 2000 mm.	NF-S22-Serrated Aluminum Profile
	**Flange serrated aluminium profile**	Profile with flange detail for broader support and a cleaner finish around the light opening.	NF-S22-Flange Serrated Aluminum Profile
	**Anti-wicking ferrule**	Located approximately 115 mm (±5 mm) from the connector. Helps prevent water ingress through cable conductors. Do not remove.	Anti-wicking ferrule

Note: the end cap and power-feed connectors are factory-moulded terminations, not loose plug-in components. The optional M16 plug-and-play connector is a separate accessory.

Discuss your project with LEDPRO

We can advise on power rating, driver distribution, connector configuration, profile selection and appropriate installation lengths.

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