Profiled



F – SERIES

FLICKER FREE LINEAR LIGHTING SOLUTIONS

INDOOR/OUTDOOR

230V AC / 120V AC

You inspire.
We innovate.

Who We Are

Profiled Group is a pioneering and world-leading provider of driverless flexible linear lighting solutions. The Group was founded in Spain in 1984 and now operates globally with an R&D Center in Hong Kong and production facilities in Shenzhen. Our high-performance, direct line-voltage solutions are engineered to perform in a wide range of environments: from high-visual-comfort indoor commercial applications, to the most demanding environments such as construction sites and tunnels.

Blending European design with Asian manufacturing excellence, we engineer lighting systems that are innovative, robust, and future-ready.

Mission

To revolutionize linear lighting through our proprietary driverless, solderless, and durable solutions—delivering safety, simplicity, and sustainability to different industries.

Guided by our commitment to excellence, we partner with clients through strategic advisory and superior product ecosystems, delivering high-end lighting innovations that fundamentally elevate human-environment interactions.

Our Philosophy

Your toughest challenges drive our creativity. When standard lighting solutions fail, we step in with tailor-made technology that pushes boundaries. Innovation is not our goal—it's our habit.

Vision

To Illuminate The Future.

We envision a world where lighting is intelligent, flexible, and sustainable—adapting to people, spaces, and the environment in real time.



Our Technology

We Create What
Others Can't Imagine



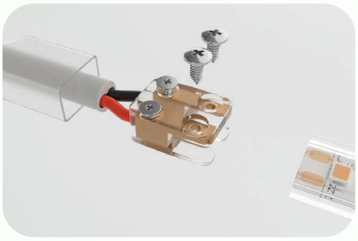
DRIVERLESS SIMPLICITY

Direct **LINE-VOLTAGE** connectivity eliminates the need for external power supplies – quicker, safer, and simpler installation.
No drivers, no hassles.

INFINITE LENGTH

Ultra long-run LED flexible linear lighting solutions **up to 500m** with only one power input.





Solderless

Our in-house solderless connectors ensure a **SMOOTHER, QUICKER and SAFER INSTALLATION** without the common issues caused by poor soldering.



Encapsulations

We adapt our materials according to the environment they are used in, **PRIORITIZING THE SAFETY AND HEALTH** of **users**.



Customizability

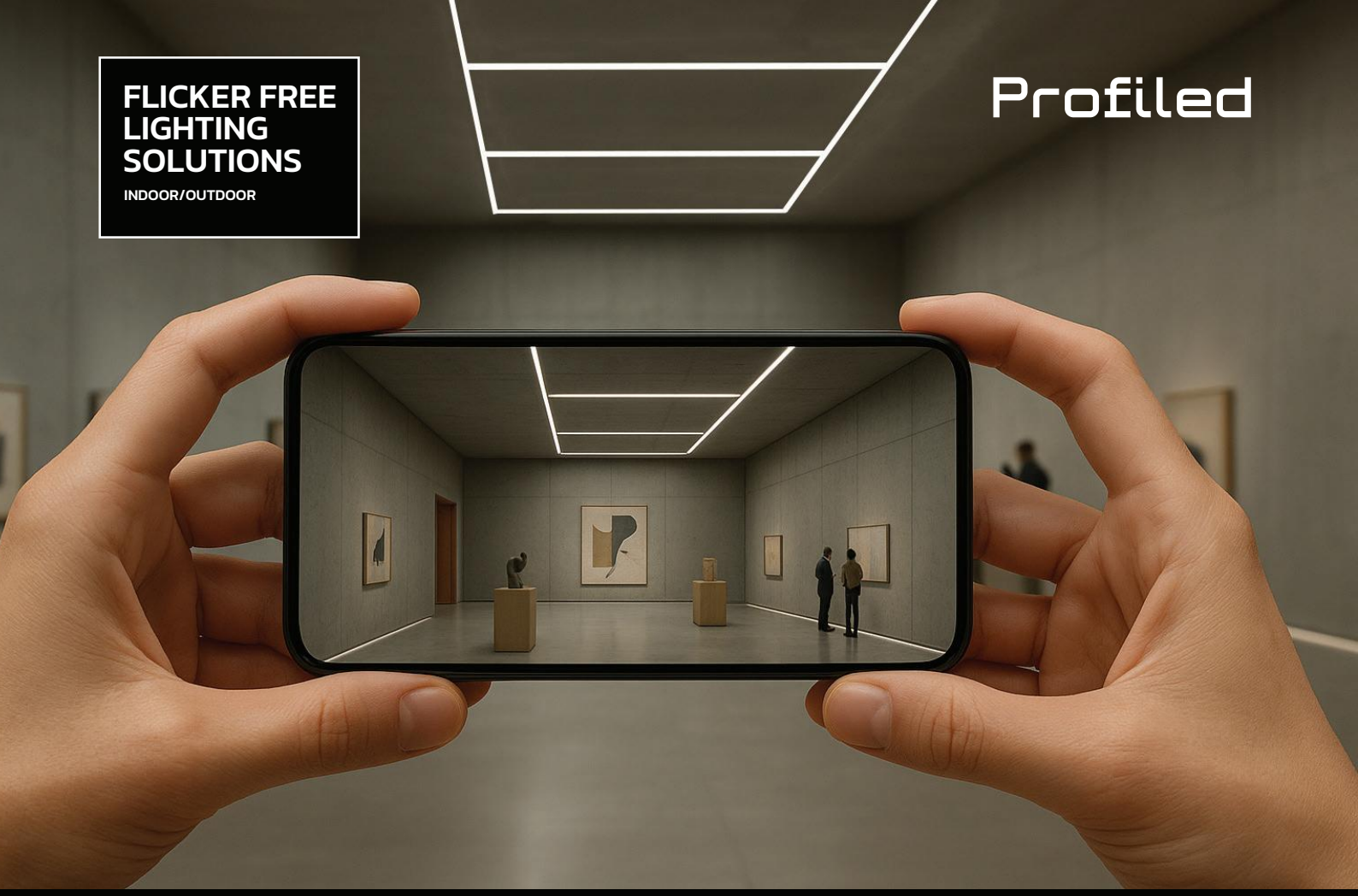
We're not selling products—we are here to listen to your needs and offer tailored **SOLUTIONS**.

Driverless.
Endless.
Magical.

FLICKER FREE LIGHTING SOLUTIONS

INDOOR/OUTDOOR

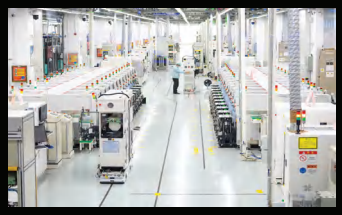
Profiled

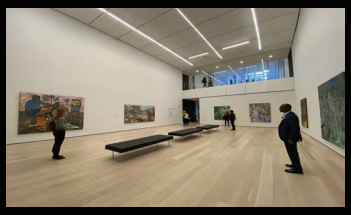
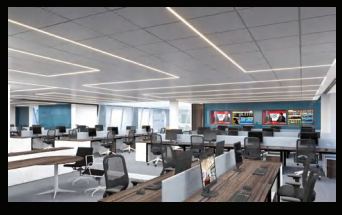


APPLICATIONS

- Office
- Commercial
- Hospitality
- Residential
- Education
- Industrial Manufacturing
- Public infrastructure
- Medical Center

F-Series has been developed to meet the highest flicker-performance requirements and regulations for indoor applications. Our state-of-the-art technology delivers long run lighting solutions free of flicker in the whole dimming range. Using standard Phase-cut, (trailing edge) dimmers, the light intensity can be adjusted through a very smooth dimming curve. Long run, high efficiency lighting solutions that ensure and maximize the users eye comfort, perfect for indoor applications and in accordance with ErP regulations.






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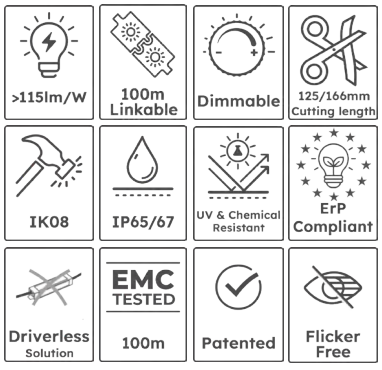


230V FLICKER FREE SOLUTIONS



FLICKER FREE SERIES – F120/F90

Available in 90 and 120 LED/m, short cutting distance, excellent and smooth dimming performance down to 5% using standard Phase-cut Dimmers (Trailing edge). Flicker free across all dimming levels, ensuring a visually comfortable environment ideal for retail spaces, offices, and areas under continuous operation. This mitigates eye strain and is essential for high-quality photography and video recording.



CE LVD EMC CB ErP | RoHS

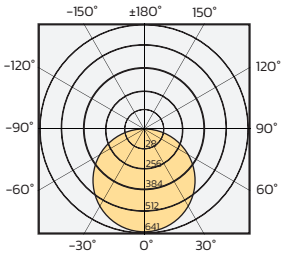
FLICKER FREE LINEAR LIGHTING SOLUTIONS
Indoor/Outdoor

Ref. 230V FLICKER FREE SERIES - F120/F90

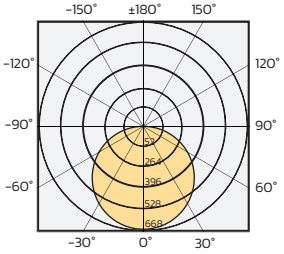
IP65 IP67 | IK08 | 230V | LVD | EMC | CB | ErP | RoHS | FLICKER FREE

LIGHT DISTRIBUTION

F120



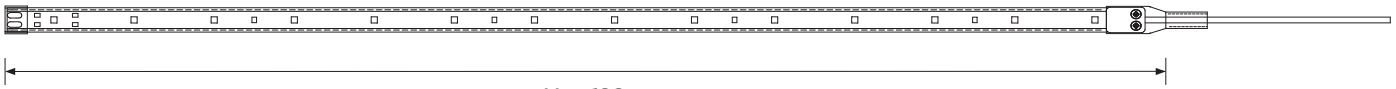
F90



SPECIFICATIONS

Article No.	F120	F90
Power (W/m)	15	15
Luminous Flux per Metre (Lumen/m)	1725	1770
Luminous Efficacy (Lumen/W)	115	118
Min. cutting length	125mm	166mm
LEDs/m	120	90
Flicker PsTLM (Range less than 1) EU 2019/2020	<0,1	
Flicker SVM (Range less than 0.4) EU 2019/2020	<0,1	
LED type	2835	
Voltage	230V	
Beam angle	120°	
CRI	>80	
CCT	2700K~6500K	
SDCM	≤ 2-step (Hollow Silicone Extrusion)	
Lifetime (L80, B10)	35,000h	
IP rating	65/67	
IK rating	08	
Ambient temp	-20°C - + 45°C	
Material	High transparent silicone	
Double-sided adhesive	3M LSE	
Maximum length	100m	
Min. bend diameter	d≥ 50mm	
Dimming	Trailing-edge	

WIRING GUIDE



Max. 100m

INSTALLATION METHODS



Profile

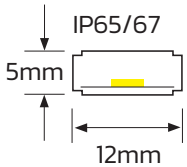


Clip & Screw



Cable ties

DIMENSIONS



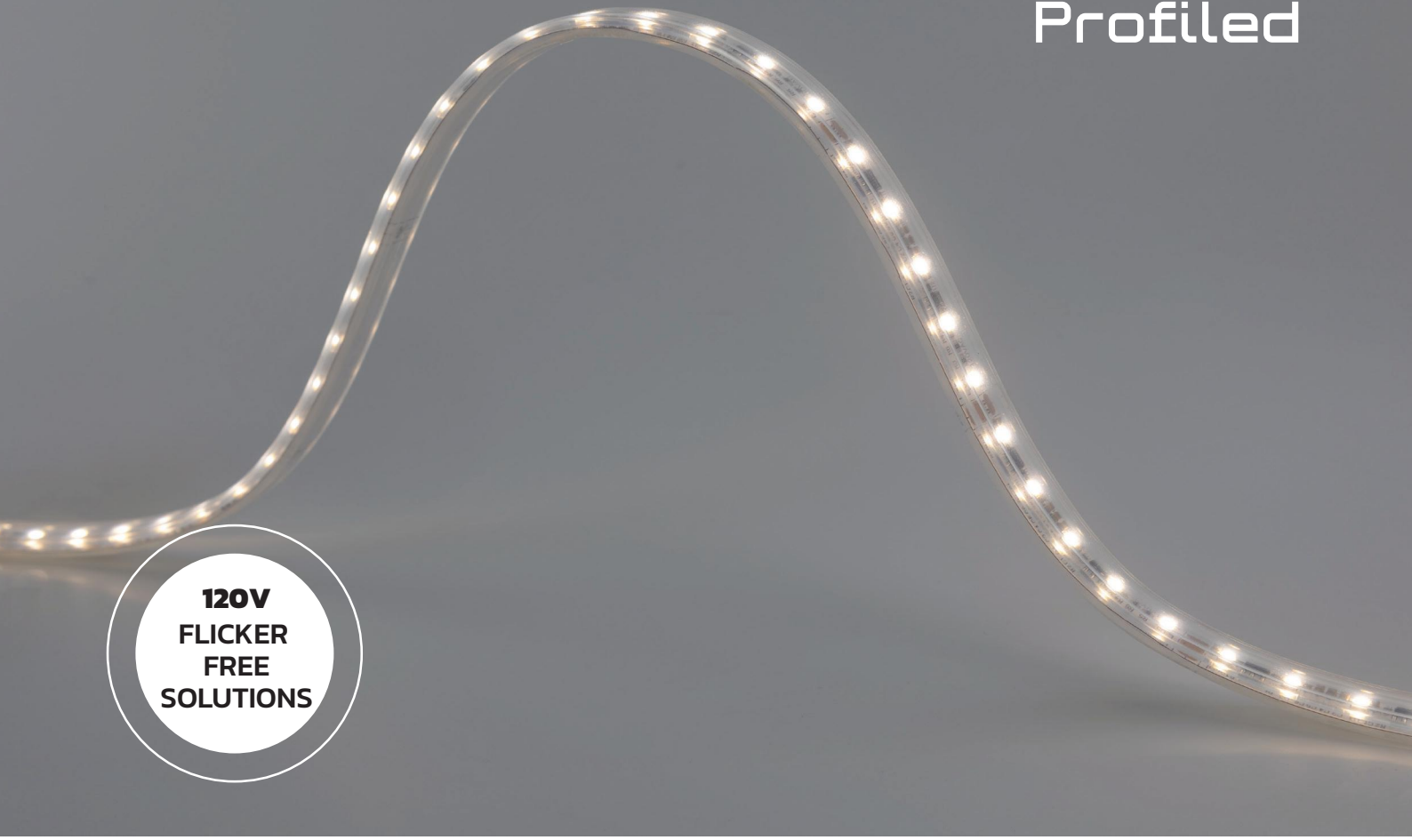
PACKING INFO (F120)

Reel	Size(mm)	Weight(kg): IP65/67
5m	Ø178 x H14.5	0,32/0,38
10m	Ø254 x H12	0,78/0,98
25m	Ø220 x H45	1,71/2,25
50m	Ø220 x H105	3,17/4,26
100m	Ø220 x H215	6,11/8,29

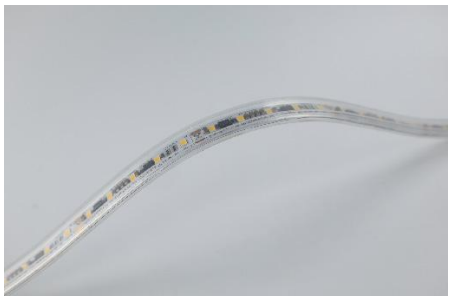
PACKING INFO (F90)

Reel	Size(mm)	Weight(kg): IP65/67
5m	Ø178 x H14.5	0,28/0,36
10m	Ø254 x H12	0,75/0,96
25m	Ø220 x H45	1,68/2,22
50m	Ø220 x H105	3,12/4,20
100m	Ø220 x H215	6,00/8,17

Profiled

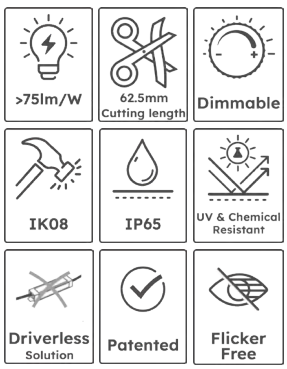


120V FLICKER FREE SOLUTIONS



FLICKER FREE SERIES - F80

The 120V Flicker-Free LED Strip combines ultra-short 62.5 mm cutting length, PF>0.9, and smooth dimming down to 5% for precise, comfortable and energy-efficient lighting. With direct AC 120V input and no external driver required, it simplifies installation while delivering uniform light for both commercial and residential applications. This product complies with UL 1598 and UL 2388 for the United States, CSA C22.2 No. 250.0 for Canada, California Title 24 (including JA8 and JA10 requirements). It also meets the FCC SDOC (US) and ICES-005 (Canada) requirements.



FLICKER FREE LINEAR LIGHTING SOLUTIONS

Indoor/Outdoor

Ref. 120V FLICKER FREE SERIES - F80

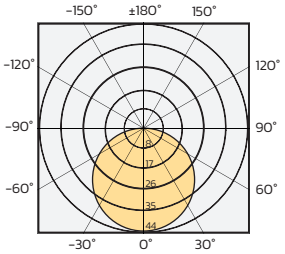
120V | IP65 | IK08 | TITIL 24 JA8-2025 | FLICKER FREE

SPECIFICATIONS

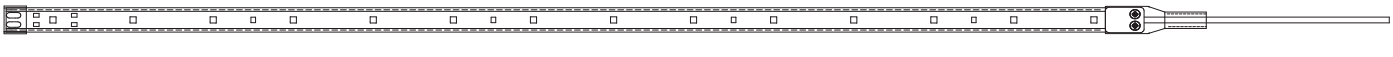
Article No.	F80
LED type	2835
LEDs/m	80
Power (W/m)	15
Luminous Flux per Metre (Lumen/m)	1125
Luminous Efficacy (Lumen/W)	75
Flicker PAM (100% and 20% light output), (Range less than 30%) CEC title 24 JA10	≤5
Voltage	120V
Beam angle	120°
CRI	>95
CCT	2200K~6500K
SDCM	≤ 2-step (Hollow Silicone Extrusion)
Lifetime (L80, B10)	35,000h
IP rating	65
IK rating	08
Ambient temp	-20°C - + 45°C
Material	High transparent silicone
Double-sided adhesive	3M LSE
Maximum length	48m
Min. cutting length	62.5mm
Min. bend diameter	d≥ 50mm
Dimming	Trailing-edge

LIGHT DISTRIBUTION

F80



WIRING GUIDE



Max. 48m

INSTALLATION METHODS



Profile

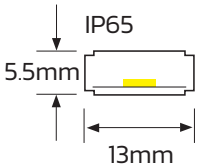


Clip & Screw



Cable ties

DIMENSIONS



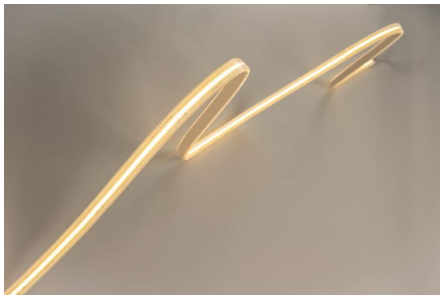
PACKING INFO (F80)

Reel	Size(mm)	Weight(kg)
5m	Ø220 × H45	0,45
10m	Ø220 × H45	0,9
25m	Ø220 x H105	2,5
50m	Ø220 x H215	5

Profiled

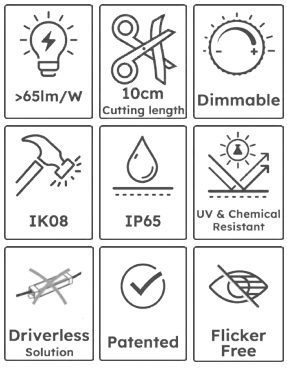


230V COB FLICKER FREE SOLUTIONS



230V COB FLICKER FREE SERIES - F420

COB Flicker-Free LED Strip — a next-generation AC 230V linear lighting solution that combines driverless simplicity with exceptional light quality. Featuring 420 COB LED chips per meter and a compact 10 cm cutting distance, it delivers seamless, dot-free illumination with precise installation flexibility. Its flicker-free performance meets EU ErP requirements, while direct chip bonding onto a FPCB ensures efficient heat dissipation and reliable thermal performance. High performance, seamless light, and driverless convenience — engineered for professional lighting applications.



CE LVD EMC CB ErP / RoHS

FLICKER FREE LINEAR LIGHTING SOLUTIONS

Indoor/Outdoor

Ref. 230V FLICKER FREE SERIES - COB F420

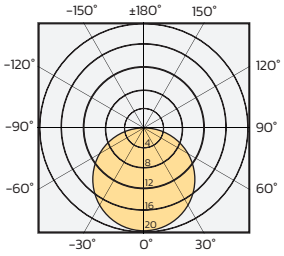
IP65 IK08 230V LVD EMC CB ErP RoHS FLICKER FREE

SPECIFICATIONS

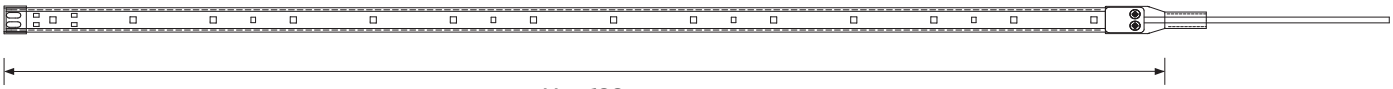
Article No.	F420
LEDs/m	420
Power (W/m)	12
Luminous Flux per Metre (Lumen/m)	780
Luminous Efficacy (Lumen/W)	65
Flicker PsTLM (Range less than 1) EU 2019/2020	<1
Flicker SVM (Range less than 0.4) EU 2019/2020	<0,4
Voltage	230V
Beam angle	120°
CRI	>90
CCT	2200K~6500K
SDCM	≤ 3-step (Hollow Silicone Extrusion)
Lifetime (L80, B10)	50,000h
IP rating	65
IK rating	08
Ambient temp	-20°C - + 40°C
Material	High transparent silicone
Double-sided adhesive	3M LSE
Maximum length	100m
Min. bend diameter	d≥ 50mm
Min. cutting length	100mm
Dimming	Trailing-edge

LIGHT DISTRIBUTION

F420



WIRING GUIDE



Max. 100m

INSTALLATION METHODS



Profile

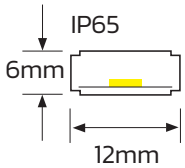


Clip & Screw



Cable ties

DIMENSIONS

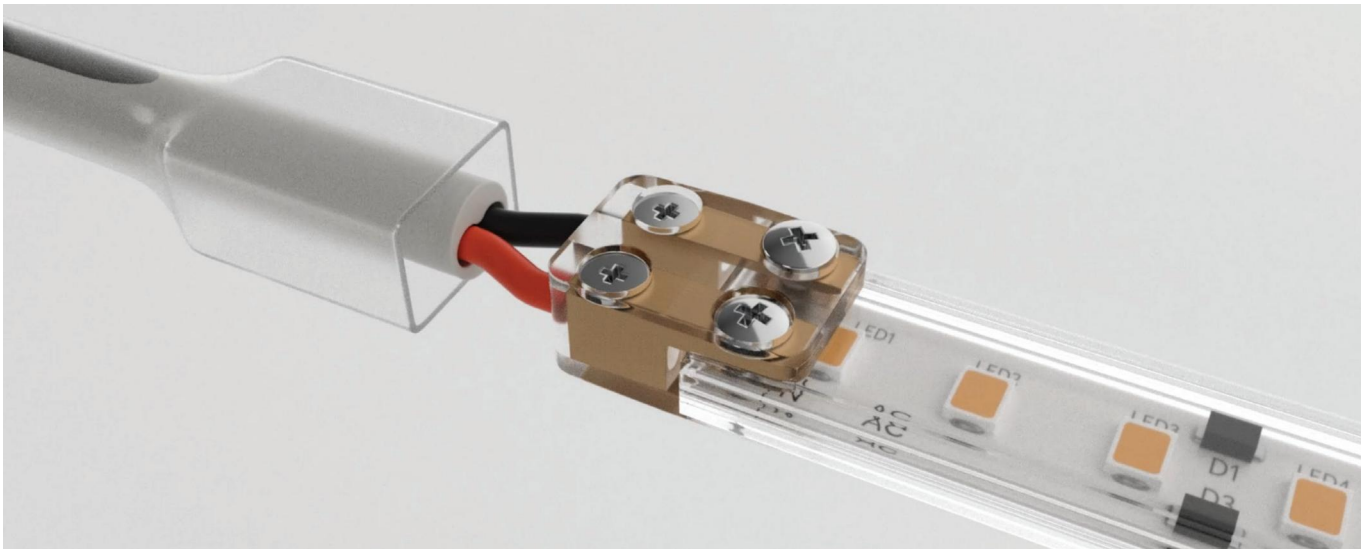


PACKING INFO (F420)

Reel	Size(mm)	Weight(kg)
5m	Ø200 × H12	0,6
10m	Ø254 × H12	1,2
25m	Ø220 x H105	3
50m	Ø220 x H215	6

FLICKER FREE LINEAR LIGHTING SOLUTIONS
Indoor/Outdoor

Ref. ACCESSORIES – F120/F90



Strip to Strip Connectors



Bridge Connector
039195



T Connector
039260



Cross Connector
039261



90° Vertical Connector
039258



90° Flat Connector
039259



Screw
039202



Strip Cap
039161



End Cap
039059

Cable to Strip Connectors



Terminal Block
039175



Screw
039203



Screw
039091



End Cap
039059



Power Cap
039100

Bridge Connector Kit
Ref. 039275
(1 pc) Bridge Connector
(2 pcs) Power Cap
(4 pcs) Screw

T Connector Kit
Ref. 039276
(1 pc) T Connector
(3 pcs) Power Cap
(6 pcs) Screw

Cross Connector Kit
Ref. 039277
(1 pc) Cross Connector
(4 pcs) Power Cap
(8 pcs) Screw

90° Vertical Connector Kit
Ref. 039278
(1 pc) 90° Vertical Connector
(2 pcs) Power Cap
(4 pcs) Screw

90° Flat Connector Kit
Ref. 039279
(1 pc) 90° Flat Connector
(2 pcs) Power Cap
(4 pcs) Screw

Terminal Block Kit
Ref. 039280
(1 pc) Terminal Block Kit
(1 pc) Power Cap
(1 pc) End Cap
(4 pcs) Screw

Contact us

PL-CAT-FSeries2026-A

R&D Center

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