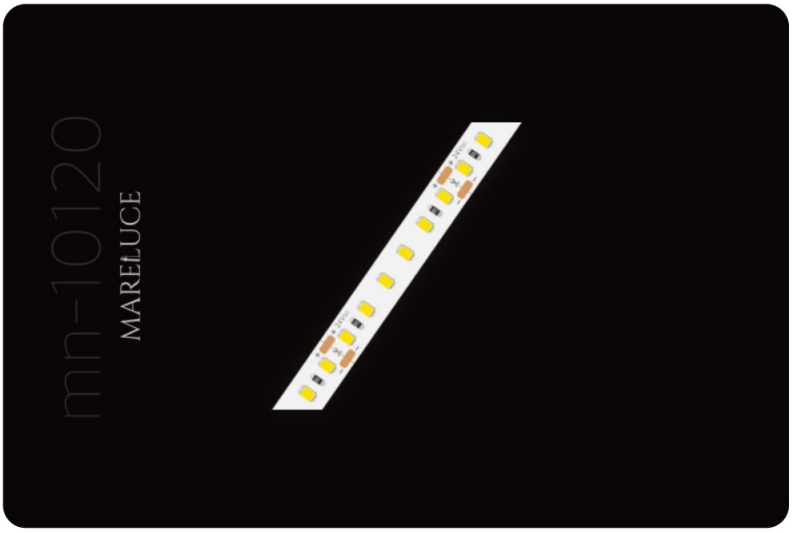
LED STRIP · SINGLE COLOUR · 2835 SMD

MN-10120

10 mm high-output single-colour LED strip, 120 LEDs/m, 24 W/m · 12 / 24 V DC



PCB WIDTH	POWER
10 mm	24 W/m

VOLTAGE	CUT UNIT (24 V)
12 / 24 V DC	50 mm

LED DENSITY	MIN. BEND RADIUS
120 LEDs/m	50 mm

Overview

MN-10120 is a 10 mm high-output single-colour LED strip with 120 2835 LEDs per metre, delivering up to 2850 lm/m at 24 W/m. The dense LED pitch of 8.3 mm gives an even line of light behind diffusers and in profiles, making it suitable for general and accent lighting in saloons, cabins, galleys and storage areas on board. Available for 12 or 24 V DC, in CRI 80 and CRI 90 versions, PWM dimmable.

Specifications

Dimension	5000 × 10 × 1.2 mm (5 m reel)
LED	2835 SMD, 120 LEDs/m, 8.3 mm pitch
Cut unit	6 LEDs / 50 mm (24 V) · 3 LEDs / 25 mm (12 V)
Power	24 W/m
Current	1 A/m (24 V) · 2 A/m (12 V)
Colour temperature	2700K, 3000K, 4000K, 6000K
Colour rendering	CRI 80 or CRI 90
Beam angle	120°
Dimming	PWM
PCB	2 oz copper, high-thermal 3M adhesive
Lead wire	150 mm, red/black, 18 AWG
Min. bend radius	50 mm
Ambient temperature	−20 °C to +50 °C
Protection	IP20 standard; IP52, IP65H, IP65, IP67, IP67E, IP68 on request

Cut Unit



ORDERING INFORMATION

Product Code

MN-10120	3000K	CRI 90	24 V
MODEL	COLOUR TEMPERATURE	COLOUR RENDERING	VOLTAGE
	2700K · 3000K · 4000K · 6000K	CRI 80 · CRI 90	12 · 24 V DC

Specify colour temperature, CRI and supply voltage when ordering. Example: **MN-10120**, 3000K, CRI 90, 24 V DC.

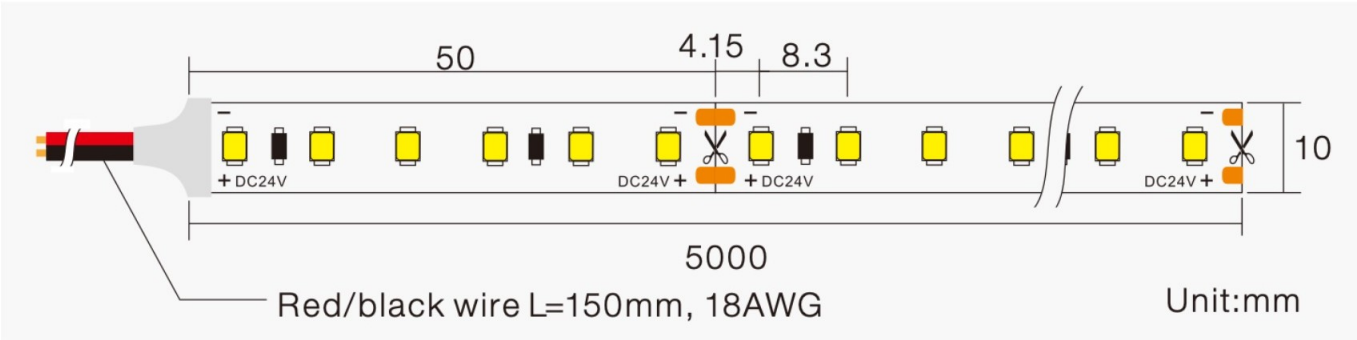
Photometric Data

COLOUR TEMPERATURE	POWER	LM/M CRI 90	LM/W CRI 90	LM/M CRI 80	LM/W CRI 80
MN-10120 · 2700K	24 W/m	2136	89.0	2640	110.0
MN-10120 · 3000K	24 W/m	2155	89.8	2760	115.0
MN-10120 · 4000K	24 W/m	2349	97.9	2820	117.5
MN-10120 · 6000K	24 W/m	2267	94.5	2856	119.0

Measured on IP20 strip at 24 V DC, 24 W/m, full output; colour temperature tolerance ±100K (4000K ±200K, 6000K ±300K). 2100K and 2400K versions on request.

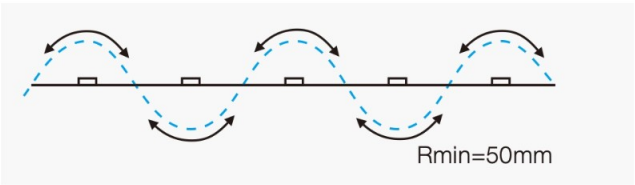
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



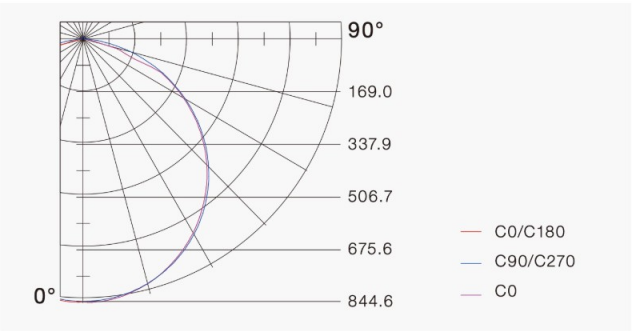
5 m reel, 10 mm PCB; cut marks every 50 mm (24 V) or 25 mm (12 V); 150 mm red/black lead wire, 18 AWG.

Bending



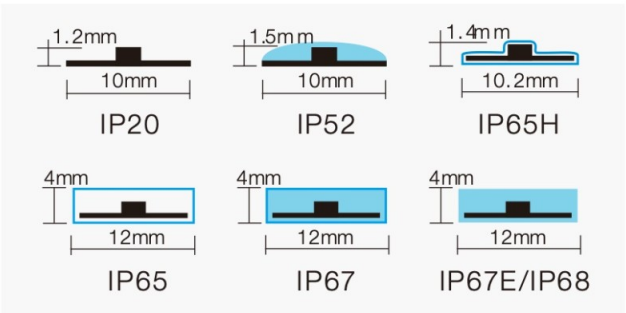
Flexible strip; minimum bend radius 50 mm. Do not bend at the cut marks.

Polar Curve



Reference: IP20, 24 V, CRI 90, 6000K.

Waterproof Versions



VERSION	CONSTRUCTION	SIZE (W × H)
IP20	Bare PCB	10 × 1.2 mm
IP52	Silicone coating	10 × 1.5 mm
IP65H	Heat-shrink tube	10.2 × 1.4 mm
IP65	Silicone tube	12 × 4 mm
IP67	Silicone tube, filled	12 × 4 mm
IP67E / IP68	Solid silicone extrusion	12 × 4 mm

Light output and power may vary by up to ±10% due to production and component tolerances.