




PROFESSIONAL LED FLEXIBLE STRIPS



NIVISS nFLEX, manufactured in Poland is a professional solution for linear lighting applications. nFLEX Standard, Plus and Pro lines are manufactured based on CREE LEDs.

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INTRODUCTION

NIVISS nFlex is a family of high quality LED tapes dedicated for decoration. It's main advantages are high efficiency, low power, long lifetime - up to 50000h, high CRI, lack of toxic substances. It is based on LEDs made by American company CREE®, the leader of the market. Exact BIN of each LED tape is marked on every product of nFlex family.

APPLICATIONS

NIVISS nStrips can be used in different types of general indoor lighting applications, such as illumination of: residences and houses, shops, museums, jewellery stores, furniture etc. and can work as:

- accent lighting
- recessed lighting
- subdued lighting
- decorative lighting
- garden lighting



RoHS
COMPLIANT



Ενεργειακή
Energy class



nFlex families

NIVISS nFlex consists of four subfamilies with different LED current stabilization, and with different LEDs used.

nFlex family	Basic	Standard	Plus	Pro
Cree LED inside	no	yes	yes	Yes, Lighting class LED
stabilization	Resistor based	Resistor based	SMD stabilizer	Advanced stabilization circuit
warranty	2 years	3 years	3 years	5 years
Minimum flux [lm] from 1 st meter of LED tape	From 288 to 360	From 378 to 492	From 378 to 492	From 543 to 705
Dimensions (L x W x H) [mm]	5000x8x1,5	5000x8x2,5	5000x8x2,5	5000x8x2,5
LED spacing [mm]	16,7	16,7	16,7	33

ASSEMBLY

NIVISS nFlex can be mounted using attached double-sided 3M tape. nFlex requires no additional heatsink. 5m long chains can be connected together from both sides. Maximum total length connection on one power supply is dependent on variant. It's possible to connect more than specified amount of LED chains, if applying power supplies from both sides.

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CREE 

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nFlex Basic 12P300



DESCRIPTION Basic line of nFlex family, produced in Poland, based on good quality Asian LED lamps nFlex Basic is a cost-effective solution for linear lighting and decorative applications.

SPECIFICATION

Color	Warm White	Neutral White	Cool White
Color Temperature	3000±150K	4000±200K	6000±250K
Input Voltage	12 VDC		
Typical CRI	80	75	75
IP class	IP20		
Number of LEDs	300		
Dimensions	5000 mm x 8mm x 1,5mm		
Viewing angle	120°		
LED Lumen Output for 1m ¹	320lm	340lm	360lm
Wattage	4,8W/m;		
Dimming	PWM, voltage		
Lifetime ²	50 000h		
Minimal segment length	50 mm		
Maximal chain length ³	10 m		
Operating temperature range	-30°C÷+50°C		

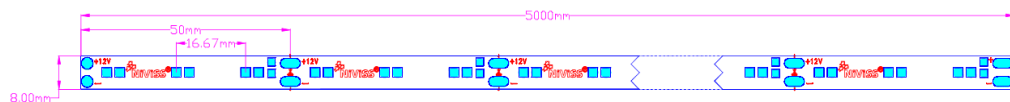
¹ lumen output tolerance ±10%

² Approximate lifetime within operating temperature range

³ Using AWG 22 cable, strips not more than 15cm to each other, input voltage on first strip 12V DC, decrease of lumen output at 2nd end

All the parameters and values mentioned in this specification contain only approximate information and may be not precise.

MECHANICAL DIMENSIONS [mm]



ORDERING CODE

Part No.	BEAM Color	CCT	CRI	Connector
NFLEX-BC-I-12P2300-WW	Warm White	3000K	80	None
NFLEX-BC-I-12P2300-NW	Neutral White	4000K	75	None
NFLEX-BC-I-12P2300-CW	Cool White	5000K	75	None

Color temperature 2700K and colors: red, green, blue or yellow are available for special order, MOQ = 100pcs.

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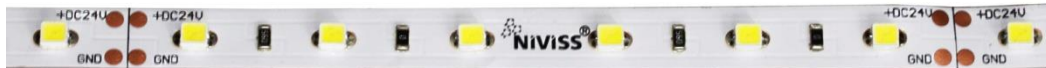
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nFlex Basic 24P300



DESCRIPTION

Basic line of nFlex family, produced in Poland, based on good quality Asian LED lamps. nFlex Basic is a cost-effective solution for linear lighting and decorative applications.

SPECIFICATION

Color	Warm White	Neutral White	Cool White
Color Temperature	3000±150K	4000±200K	5000±250K
Input Voltage	24 VDC		
Typical CRI	80	75	75
IP class	IP20		
Number of LEDs	300		
Dimensions	5000 mm x 8mm x 1,5mm		
Viewing angle	120°		
LED Lumen Output for 1m ¹	320lm	340lm	360lm
Wattage	4,8W/m; 24W/5m		
Dimming	PWM, voltage		
Lifetime ²	50 000h		
Minimal segment length	50 mm		
Maximal chain length ³	15 m		

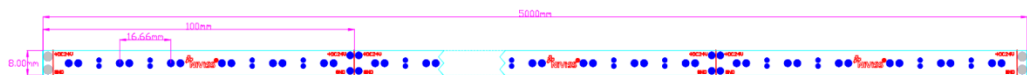
¹ Source performance in real-life conditions, including driver and utilization losses / initial lumen output tolerance ±15 lm.

² Approximate lifetime of the product while maintaining optimal working conditions.

³ Using AWG 22 cable, strips close to each other, input voltage on first strip 24V, without noticeable decrease of lumen output

All the parameters and values mentioned in this specification contain only approximate information and can be not precise.

MECHANICAL DIMENSIONS [mm]



ORDERING CODE

Part No.	BEAM Color	CCT	CRI	Connector
NFLEX-BC-I-24P2300-WW	Warm White	3000K	80	None
NFLEX-BC-I-24P2300-NW	Neutral White	4000K	75	None
NFLEX-BC-I-24P2300-CW	Cool White	5000K	75	None

Color temperature 2700K and colors: red, green, blue or yellow are available for special order, MOQ = 100pcs.

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nFlex Standard 12P300



DESCRIPTION

Standard line of nFlex family, produced in Poland, based on PLCC4 CREE LED lamps. nFlex Standard is a high quality and cost-effective solution for linear lighting and decorative applications.

applications.

SPECIFICATION

Color	Comfort White	Warm White	Neutral White	Cool White
Color Temperature	2700±150K	3000±150K	4000±200K	5000±250K
Input Voltage	12 VDC			
Typical CRI	80	80	75	
IP class	IP20			
Number of LEDs	300			
Dimensions	5000 mm x 8mm x 2,5mm			
Viewing angle	120°			
LED Lumen Output for 1m ¹	390lm	390lm	450lm	490lm
Wattage	7,5W/m; 37,5W/5m			
Dimming	PWM, voltage			
Lifetime ²	50 000h			
Minimal segment length	50 mm			
Maximal chain length ³	10 m			

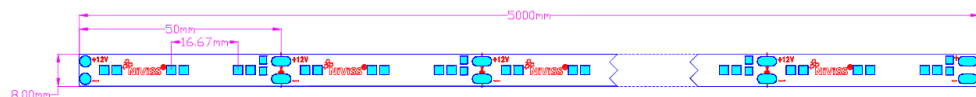
¹ Source performance in real-life conditions, including driver and utilization losses / initial lumen output tolerance ±15 lm.

² Approximate lifetime of the product while maintaining optimal working conditions.

³ Using AWG 22 cable, strips close to each other, input voltage on first strip 12V, without noticeable decrease of lumen output

All the parameters and values mentioned in this specification contain only approximate information and may be not precise.

MECHANICAL DIMENSIONS [mm]



ORDERING CODE

Part No.	BEAM Color	CCT	CRI	Connector
NFLEX-ST-I-12P4300-VW	Comfort White	2700K	80	None
NFLEX-ST-I-12P4300-WW	Warm White	3000K	80	None
NFLEX-ST-I-12P4300-NW	Neutral White	4000K	75	None
NFLEX-ST-I-12P4300-CW	Cool White	5000K	75	None

Colors: red, green, blue or yellow are available for special order, MOQ = 100pcs.

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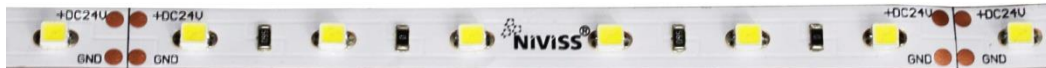
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nFlex Standard 24P300



DESCRIPTION

Standard line of nFlex family, produced in Poland, based on PLCC4 CREE LED lamps. nFlex Standard is a high quality and cost-effective solution for linear lighting and decorative applications.

SPECIFICATION

Color	Comfort White	Warm White	Neutral White	Cool White
Color Temperature	2700±150K	3000±150K	4000±200K	5000±250K
Input Voltage	24 VDC			
Typical CRI	80	80	75	75
IP class	IP20			
Number of LEDs	300			
Dimensions	5000 mm x 8mm x 2,5mm			
Viewing angle	120°			
LED Lumen Output for 1m ¹	390lm	390lm	450lm	490lm
Wattage	7,5W/m; 37,5W/5m			
Dimming	PWM, voltage			
Lifetime ²	50 000h			
Minimal segment length	50 mm			
Maximal chain length ³	10 m			

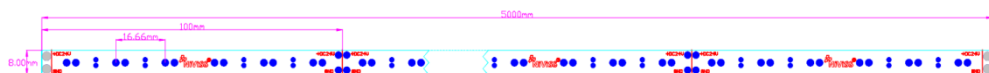
¹ Source performance in real-life conditions, including driver and utilization losses / initial lumen output tolerance ±15 lm.

² Approximate lifetime of the product while maintaining optimal working conditions.

³ Using AWG 22 cable, strips close to each other, input voltage on first strip 24V, without noticeable decrease of lumen output

All the parameters and values mentioned in this specification contain only approximate information and may be not precise.

MECHANICAL DIMENSIONS [mm]



ORDERING CODE

Part No.	BEAM Color	CCT	CRI	Connector
NFLEX-ST-I-24P4300-VW	Comfort White	2700K	80	None
NFLEX-ST-I-24P4300-WW	Warm White	3000K	80	None
NFLEX-ST-I-24P4300-NW	Neutral White	4000K	75	None
NFLEX-ST-I-24P4300-CW	Cool White	5000K	75	None

Colors: red, green, blue or yellow are available for special order, MOQ = 100pcs.

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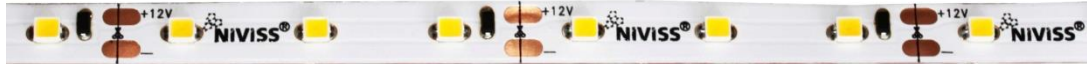
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nFlex Plus 12P300



DESCRIPTION

Plus line of nFlex family, produced in Poland, based on PLCC4 CREE LED lamps and with Current Stabilization ICs on board.
nFlex Plus is a high quality solution for linear lighting and decorative applications.

SPECIFICATION

Color	Comfort White	Warm White	Neutral White	Cool White
Color Temperature	2700±150K	3000±150K	4000±200K	5000±250K
Input Voltage	12 VDC			
Typical CRI	80	80	75	
IP class	IP20			
Number of LEDs	300			
Dimensions	5000 mm x 8mm x 2,5mm			
Viewing angle	120°			
LED Lumen Output for 1m ¹	390lm	390lm	450lm	490lm
Wattage	7,5W/m; 37,5W/5m			
Dimming	PWM			
Lifetime ²	50 000h			
Minimal segment length	50 mm			
Maximal chain length ³	5 m			

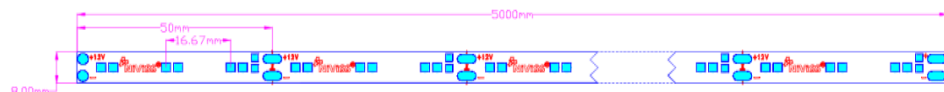
¹ Source performance in real-life conditions, including driver and utilization losses / initial lumen output tolerance ±15 lm.

² Approximate lifetime of the product while maintaining optimal working conditions.

³ Using AWG 22 cable, strips close to each other, input voltage on first strip 12V, without noticeable decrease of lumen output

All the parameters and values mentioned in this specification contain only approximate information and may be not precise.

MECHANICAL DIMENSIONS [mm]



ORDERING CODE

Part No.	BEAM Color	CCT	CRI	Connector
NFLEX-PL-I-12P4300-VW	Comfort White	2700K	80	None
NFLEX-PL-I-12P4300-WW	Warm White	3000K	80	None
NFLEX-PL-I-12P4300-NW	Neutral White	4000K	75	None
NFLEX-PL-I-12P4300-CW	Cool White	5000K	75	None

Colors: red, green, blue or yellow are available for special order, MOQ = 100pcs.

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nFlex Pro 12M150



DESCRIPTION

PRO line of nFlex family, produced in Poland, based on ML CREE LED lamps and with Advanced Current Stabilization ICs on board.

nFlex PRO is a high quality solution for linear lighting and decorative applications with 5 Years Warranty.

SPECIFICATION

Color	Comfort White	Warm White	Neutral White	Cool White
Color Temperature	2700±150K	3000±150K	4000±200K	5000±250K
Input Voltage	12 VDC			
Typical CRI	80	80	75	75
IP class	IP20			
Number of LEDs	150			
Dimensions	5000 mm x 8mm x 2,5mm			
Viewing angle	120°			
LED Lumen Output for 1m ¹	543 - 705 lm			705lm
Wattage	10,2/m;			
Dimming	PWM			
Lifetime ²	50 000h			
Minimal segment length	100 mm			
Maximal chain length ³	5 m			

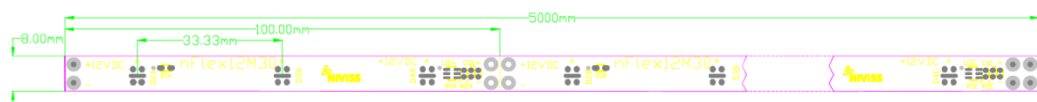
¹ Source performance in real-life conditions, including driver and utilization losses / initial lumen output tolerance ±15 lm.

² Approximate lifetime of the product while maintaining optimal working conditions.

³ Using AWG 22 cable, strips close to each other, input voltage on first strip 12V, without noticeable decrease of lumen output

All the parameters and values mentioned in this specification contain only approximate information and may be not precise.

MECHANICAL DIMENSIONS [mm]



ORDERING CODE

Part No.	BEAM Color	CCT	CRI	Connector
NFLEX-PO-I-12MB150-VW	Comfort White	2700K	80	None
NFLEX-PO-I-12MB150-WW	Warm White	3000K	80	None
NFLEX-PO-I-12MB150-NW	Neutral White	4000K	75	None
NFLEX-PO-I-12MB150-CW	Cool White	5000K	75	None

Colors: red, green, blue or yellow are available for special order, MOQ = 100pcs.

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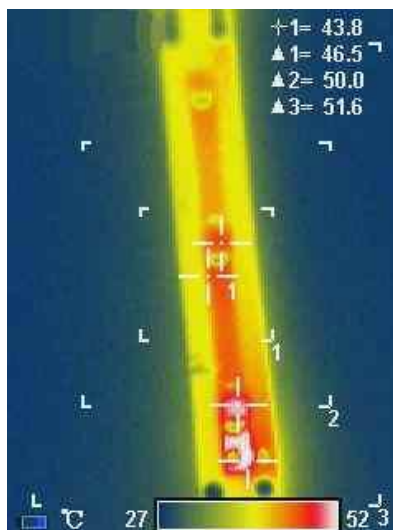
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Thermal analysis



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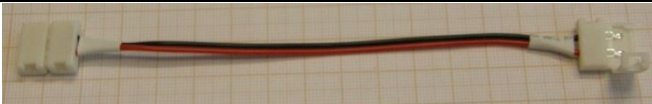
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Recommended Power Supplies

PSU	Output voltage	Power
PS-CV18-ELP18-12LS	12VDC	18W
PS-CV30-ELP30-12LS	12VDC	30W
PS-LPH-18-12	12VDC	18W
PS-LPH-18-24	24V	18W
PS-LPV-20-12	12V	20W
PS-LPV-20-24	24V	20W
PS-LPV-35-12	12V	35W
PS-LPV-35-24	24V	35W
PS-LPV-60-12	12V	60W
PS-LPV-60-24	24V	60W

Attention: When connecting more than one reel it is recommended to connect single chains in parallel to PSU. It is recommended to supply each chain from both sides

Accessories

NFLEX-AKCES-1	Connector for zero-distance connections	
NFLEX-AKCES-2	Connector for 15cm connections	

Packing

- ☼ Led tape is wound on a reel, then packed to ESD bags, then to collecting box
- ☼ The boxes are not water resistant and they must be kept away from water and moisture

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LED TAPE REEL:

(Ø 177mm x 11mm)

(Ø 6,97" x 0,43")

87,5g



ESD BAG with LED TAPE REEL:

(245mm x 215mm x 14mm)

(9,65" x 8,46" x 0,55")

104,2g

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