

Vertical bendable LED strip IP68 rated for indoor or outdoor use.

96 LEDs meters (1 m = 3.28'), full RGB. White PVC outercase, frost resin with protection against UV rays and to the corrosive action of salt.

Manufactured in automated production line. Maximum length

10 meters (1 m = 3.28'), input voltage 24VDC. Available on catalog with different accessories.



















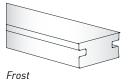
rev. 06/24

Colors and finishings

Polyurethane resin UV treatment

PETERS[©] bi-components polyurethane resin, chemical components with variable mixing and high degree of transparency. Protective component with UV filter and anti-yellowing. Automated processing for controlled stratification.

RESIN COLOR



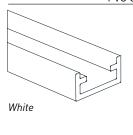
All LED strips are developed by LED ITALY and manufactured at

their own factories in Italy. The strip is inserted into the outer case and through stratification processing reaches the required IP rating.

Outercase with degree of flexibility and level of shore that guarantees a good resistance to tension and bending.

The outercase has a recovery of the initial shape thanks to the right composition of the PVC, which offers a good elasticity. The outercase are 100% made in Italy products.





Power cable type

Power cable type



Code	Code Description	
CA-68-4-1	Water immersion and outdoor R/S FEP power cable. Black. IP68. 0.16x0.02in²+ n. 2 Kevlar wires (maximum tensile stress 3.31 lbs - CEI EN 50565-1: 2015-02). External Ø2.32*.	

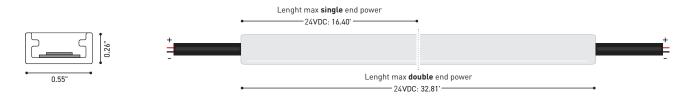
^{*}Standard cable length 19.69". Longer cable lengths can be ordered, considering extra cable not included in the price.

Determination Max. Cable

Definition of max. cable lenght between PSU/control unit and LED stri

L. Module [ft]	Power [W]	L. Cable max [ft]	
24VDC			
3.28'	15	88.58'	
6.56'	30	42.65	
9.84'	45	29.53'	
13.12'	60	21.33'	
16.40'	75	16.40	

Calculation based on a max. voltage drop of 0.85V



GENERAL FEATURES

Flexible non-sectional strip Product type Only vertical bendable, one axis Bending IP65 - IP68 IP rating -30°/+55° Working Temperature 50,000 h Lifetime Outercase PVC, white Polyurethane, frost Resin Min. bendius Radius 2.36" Power supply 24V remote (not included) Warranty 5 years 16.40 ft [1] / 32.81 ft [2] Max strip length 24VDC

ELECTRICAL FEATURES

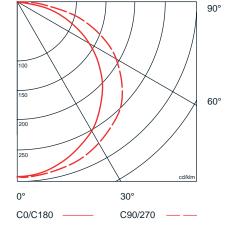
LED number	96 mt (1 m = 3.28')
LED type	SMD 5050 FULL RGB
Power consumption	15 W/mt (1 m = 3.28')
Voltage	24VDC
CCT: Color Temperature	RGB
CRI: Chroma Rendering Index	CRI80
Optic	120°
Cut internal strip	Every 2.56"
Dimmable	Yes
PCB	Kapton™, high conductivity

Lighting performances

Code	Color Temperature (K)	Luminous Flux (lm/mt)*	
LLRGB4-24.68.F	RGB	370	
* The give data are typical values. Due to tolerance of the production process and the electrical components, values for light output and electrical power can			

^{*} The give data are typical values. Due to tolerance of the production process and the electrical components, values for light output and electrical power can vary up to 5%. Binning: 3 MacAdam.

.LDT ${\bf e}$.IES files available on the site or on demand.



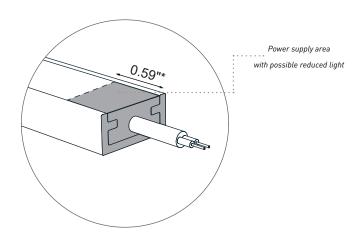
Product codes, related versions

Linea Luce	Voltage	IP	Family	
LLRGB4	24 -24VDC	68 - IP68	F - Frost	

^[1] need single end power cable

⁽²⁾ need double end power cable

*Pay attention to the difference between internal cut strip and final lenght!



X. End feed



Connection accessories



THB.402.D4A.R

THB.391.R5A

Type and Number of poles: Corrente e Tensione max.: 17.5A - 450V AC/DC Min/max wire diameter: 0.28" - 0.47 Min/max wire cross-section: 0.01" / 0.06"2 External dimensions: Ø0.91" x 3.50'

THB.387.A4A.L.R

Mini In-line circular joint connector IP68 5PIN Micro plug and socket connector IP68 4PIN Connector type "T" IP68 4PIN 17.5A - 450V AC/DC 32A - 450V AC/DC 0.24" - 0.53" 0.24" - 0.53" 0.02" / 0.16"2 0.06" / 0.16"2 Ø0.91" x 4.45 Ø1.26" x 3.58" x 4.76





THB.399.D4E

Tipologia e Numero di poli Corrente e Tensione max.: 32A - 450V AC/DC Diametro del cavo min/max: 0.43" - 0.65" Sezione del cavo min/max: 0.06"/0.16"2 Dimensioni esterne:

Connector type "Y" IP68 4PIN Ø1.26" x 2.48" x 7.09"

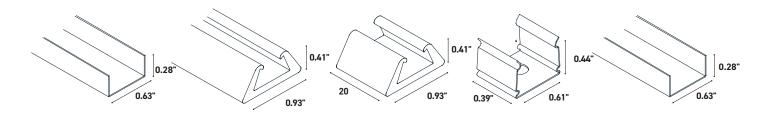
THB.392.A4A

Connector type "H" IP68 4PIN 17.5A - 450V AC/DC 0.28" - 0.47" 0.02" / 0.06"2 1.10" x 2.10" x 83.23"

THB.209.A4A

Junction box type "H" IP68 4PIN 24A - 450V AC/DC 0.28" - 0.55" 0.02"/0.16"2 4.25" x 2.56" x 1.10"

Mounting accessories



PRO-AL-14x6.5-AL

Finishing: Aluminum 9.84 Description: Suitable for both indoor and outdoor

the wall with countersunk screw

Rigid outercase

Aluminum

Type:

Material:

OUT-S-14x6.5.W

Flexible outercase

with high-grip sylicones.

Sylicone White 32.81 Particularly suitable for uneven surfaces. It

CLIP-S-14x6.5.W

Clip

Svlicone

White n 79" Particularly suitable for uneven surfaces. use, it can be cut on site and adapted can be cut on site and adapted to the in- It is suitable both outdoor and indoor into the installation required. The profile stallation required. It must be drilled and stallations..Che clip must be screwed to

CLIP-AC-14x6.5-AC

Clip

Harmonic steel AISI 304 Steel 0.39 suitable in outdoor use with particularly aggressive areas such as marine areas, swimming pools or in the presence of must be drilled, flared and screwed to screwed with a countersunk screw or glued the installation surface with a countersunk high humidity, which guarantees a high be inserted inside with glue, but can be resistance to the aggression of rust.

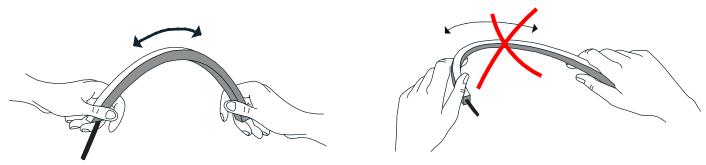
PRO-AC-14x6.5-AC

Steel AISI 364 Steel 8.20'

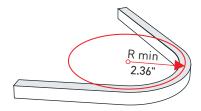
aggressive areas. The profile must be drilled, flared and screwed to the wall with countersunk screw. The strip must removed in the event of breakage.

Suitable in outdoor use with particularly

nstallation notes



Note. The strip is vertical bendable. Curve the profile only in the indicated axis. In case of non-observance of the given indication, the electrical functionality of the product will be compromised, with consequent luminous interruption of the LED strip. Do not twist it.



Note. Do not bend the profile with radius less than 6cm. In case of curvature less than the indicated value, the electrical functionality of the product will be compromised, with consequent luminous interruption of the LED strip.

Certifications

100% MADE IN ITALY

EASY LINE / Frost / LLRGB4 is entirely manufactured in Italy, factory is located in Carmagnola (TO) Italy. Both PCB manufacture, LEDS soldering, resin processing are made with automated lines under our internal specifications. The product is compliant to EUR1 rules.

LED ITALY is applicant to ISO 9001-2015 (certificate n° IT305456 - 1).

LED ITALY is applicant to 100% Made in Italy (certificate n° IT01.IT/1917.098.V).

WARRANTY

EASY LINE / Frost / LLRGB4 is guaranteed for 5 years from the purchasing data. The guarantee covers against all the manufacturing defects. The guarantee is valid only when the product is used under its specifications and without any pilfering, breaking, alterations, modifications and uses according to wrong technical directions or set up in inadequate mechanical parts. LED ITALY has the right to verify technically the product to validate the guarantee.

EUROPEAN COMMUNITY DIRECTIVES

 ${\it LED\ ITALY\ products\ comply\ with\ the\ following\ International\ standards:}$

- LED modules for general lighting Safety specifications: IEC EN 62031:2008+A1:2013+A2:2015;
- Low voltage directive: 2006/95 / CEE EMC- EN5008-1-1.2004 / 108 / CE, EC 61140, EN 62471, ERP 98 / 1EC, 92 / 75EEC EN55022, EN5008 2 Directive EMC: 93/68 / CEE 89/336 CEE.
- Annex 2006/95 / CE / 2004/108 / CE: EN 60598-1, EN 60598-2-1 EN 61347-2-12, EN61347-2-13, EN62031, EN632384, EN 55015, EN 61000-3-2 , EN 61000-3-3 EN 61547.
- IP68 Test: IEC 60598-1:2014+A1:2017

Note: All strips are low voltage operating on 12-24VDC. Without direct connection to the mains supply, products are therefore inherently Ae as they operate from less than 75VDC as specified in the Low Voltage Directive 72/23/EEC.

ENERGY EFFICENCY CLASS

The product belongs to G class refer to Energy Efficiency Class, referred to Regulation (EU) 2019/2015. EASY LINE / Frost / LLRGB4 it is an energy-saving product and can be used for specific installations.

The materials used on LED ITALY products have been subjected to the following tests:

Type of resins:

Transparent (VT 3402 KK NV)

Opal (VT 3402 KK)

Type of support: PVC

DESCRIPTION	NORM	ESECUTION	RESULT
Gloss at 60°	UNI EN ISO 2813	Gloss value at 60°	Compliant
Neutral salt spray	ISO 7253	Exposition 1500 h, purity degree of salt 99.5% NaCl in solution with demineralized water; Electric conducibility < 20 µS/cm, concentration of test solution 50 ± 5 g/l	Checked cracking, blistering or water absorption. Compliant
Humidity chamber	UNI EN ISO 6270	Exposition 1500 h, at 50°C RH>95% in constant saturated atmosphere	No cracks, blistering, softening of the resin layer, no gloss variation or water adsorption. Compliant
Resistance against			
immersion of the following Swimming pool	g fluids: N.A.	5 ppm sodium hypochlorite, derived from the hydrolysis of the pool disinfectant (sodium dichloroisocyanurate 56%) approx. pH 7 (obtained with sodium bisulphate hydrolysed in sulfuric acid)	No softening, color change or deformation of the resin film. Compliant
Water	ISO 2812 - part 1 method 1	Exposition 250 h at 25°C	Resin layer unaffected, no changement or softening. Compliant
Hydrochloric Acid	ISO 2812 - part 1 method 2	Exposition 240 h - sol. 8.5% at 20°C	Resin layer unaffected, no absorption, changement or softening. Compliant
Sodium hydroxide	ISO 2812 - part 1 method 2	Exposition 240 h - sol. 20% at 20°C	Resin layer unaffected, no absorption, changement or softening. Compliant
Isopropyl alcohol	ISO 2812	Exposition 48 h at 20°C	Film slightly modified, no softening, mass alteration (-5-6%)
Stone chipping	ASTM D 3170	Resistance to stone and gravel chipping. ASTM D 3170: ≼7B	Compliant
QUV test	ISO 16474	Exposition 1000h ΔE check	Compliant
Heat Resistance	MS CG-12	Exposition 500 h at 80°C	Resin layer unaffected, no deformation, color changement or softening. Compliant
Resistance to high temperatures	GM 6073	Exposition 1 h at 93°C	Resin layer unaffected no deformation, color changament or softening. Compliant



































