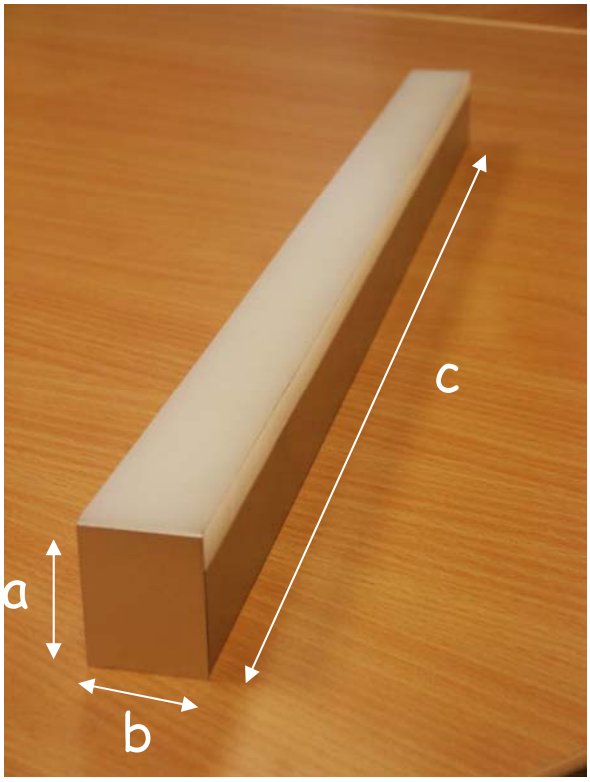
LED TECHNIC
LED's illuminate your project!

Product datasheet

www.ledtechnic.be

LEDline

1. Available sizes:



a	b	c	kg
40mm	30mm	250mm	0,3
40mm	30mm	500mm	0,6
40mm	30mm	750mm	0,9
40mm	30mm	1000mm	1,2
40mm	30mm	1250mm	1,5

For other lengths, please contact us.

2. Available colors:

Color
Red
Green
Yellow
Blue
White
Warm White 2800-3175°K
RGB[1]

[1] See User manual RGB

3. Specifications

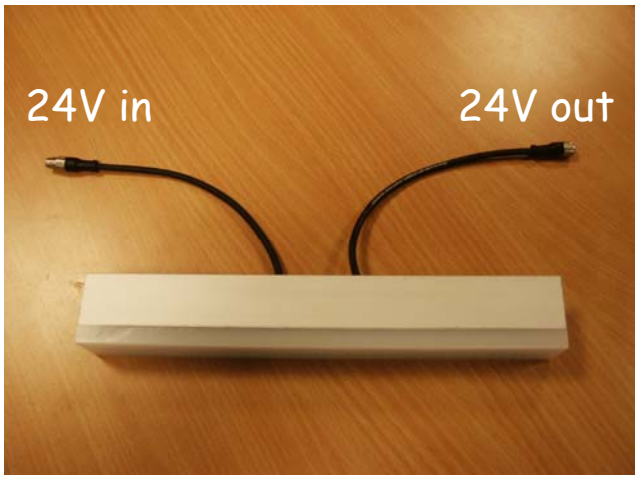
Electrical:

Voltage	24V DC	
Typ. Current	250mm	0,06A
	500mm	0,12A
	750mm	0,18A
	1000mm	0,25A
	1250mm	0,31A
IP	67	
Isolation	Class III	

Mechanical Strength tests:

Impact	4 x IK10 (80 joule)
Load	Tested at 60kg/cm^2

4. Wiring



The length of the supply leads is 200mm.
For other lengths, please contact us.

When not using the screw terminals:

Color Code	
Brown	+ connection
Blue	- connection
Black	Not connected

5. Accessories

5.1. Mounting rail

The LEDline 'clicks' on a mounting rail.

LEDLine length	Supplied mounting rails
250mm	150mm + 150mm
500mm	250mm + 150mm
750mm	500mm + 150mm
1000mm	500mm + 150mm
1250mm	500mm + 150mm

(150mm interconnect rail => used to create a continuous LEDline)
Other lengths on request.

5.2. End plate

The endplate can be glued to each end of the LEDline.
Two endplates are delivered with each LEDline.

5.3. Endcap (Male or Female)

To protect the supply leads that are not used.

5.4. Connection cable (Male to Female)

Length	Section
1m	0,25mm^2
2m	0,25mm^2
3m	0,25mm^2
5m	0,25mm^2
10m	0,25mm^2
15m	0,25mm^2

5.5. Adhesive lined tubing

However our connectors are rated IP67, we recommend using cable sleeving in moisture environments.

5.6. Power supply

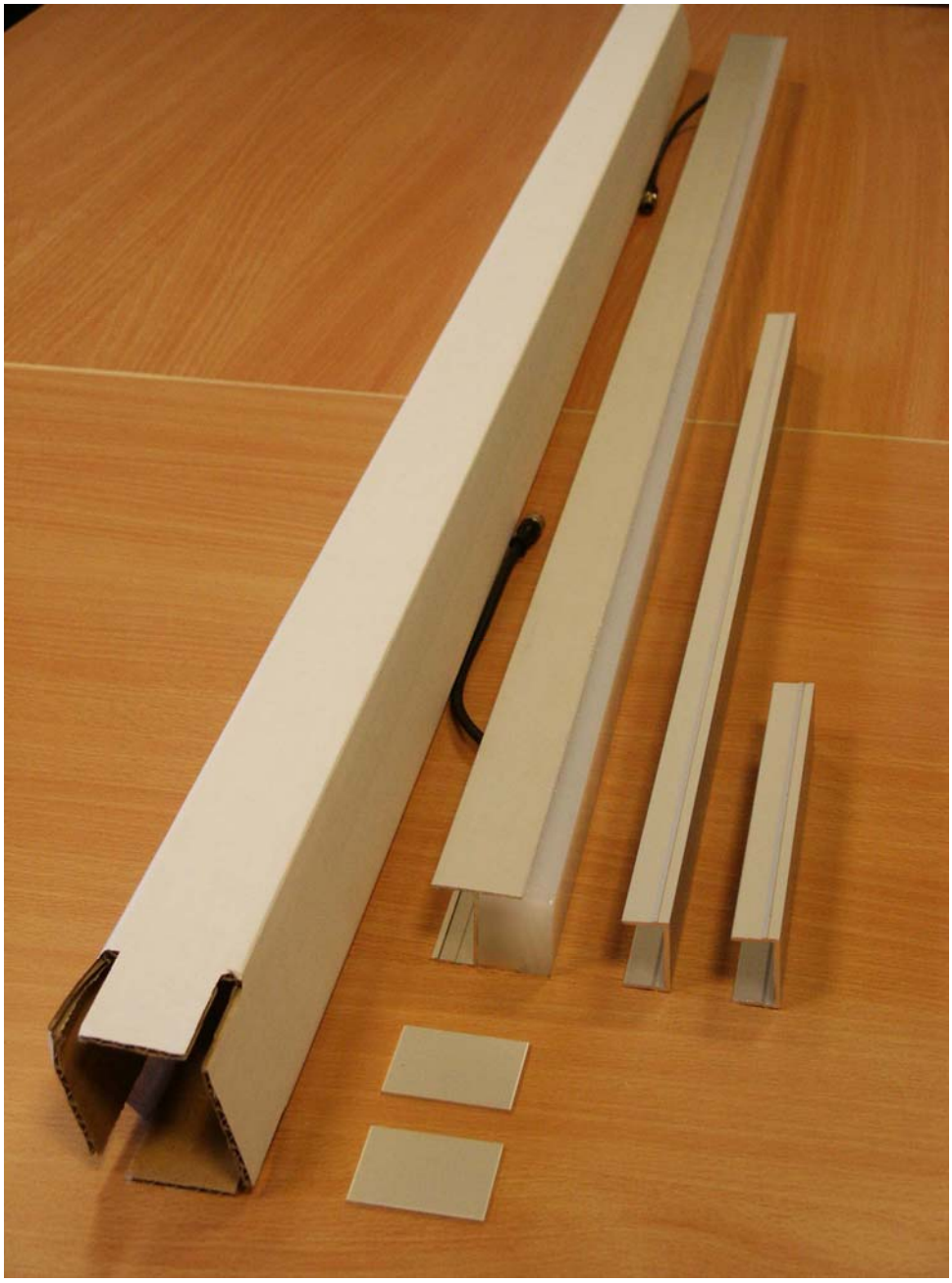
Power	Output voltage	Voltage adjustment	PFC[2]
25W	24V	±10%	none
75W	24V	-5~+10%	PF > 0,93
150W	24V	-5~+10%	PF > 0,93
500W	24V	±10%	PF > 0,93

[2] Power Factor Correction

6. Standard packaging of a LEDline

Each LEDline is supplied with:

- mounting rail
- interconnect rail
- end plates



7. Electrical design rules

- Current through the cables/LEDline may not exceed 4A.
  - Each LEDstring has to be fused (4A surge fuse).
- The first LEDline in a LEDstring has to receive 24VDC.
  - When the distance between the LEDstring and power supply becomes large, you have to:
    - Adjust up the output voltage of the power supply.
    - Enlarge the cable section.
- A maximum of 10 LEDlines can be placed in one LEDstring.
  - Although a LEDstring of 10 LEDlines will not generate currents above 4A, the voltage drop becomes important when placing LEDlines in one string.

8. Supply cable guidelines

- The following table is calculated for a power supply with an output voltage of 26V. The maximum length is calculated in order to get 24V at the end of the supply cable.

# LEDlines 1000mm	Cable section (mm2)	Maximum distance (m)
1	1,5	348,43
2	1,5	174,22
3	1,5	116,14
4	1,5	87,11
5	1,5	69,69
6	1,5	58,07
7	1,5	49,78
8	1,5	43,55
9	1,5	38,71
10	1,5	34,84
1	2,5	580,72
2	2,5	290,36
3	2,5	193,57
4	2,5	145,18
5	2,5	116,14
6	2,5	96,79
7	2,5	82,96
8	2,5	72,59
9	2,5	64,52
10	2,5	58,07
1	4	929,15
2	4	464,58
3	4	309,72
4	4	232,29
5	4	185,83
6	4	154,86
7	4	132,74
8	4	116,14
9	4	103,24
10	4	92,92
1	6	1393,73
2	6	696,86
3	6	464,58
4	6	348,43
5	6	278,75
6	6	232,29
7	6	199,10
8	6	174,22
9	6	154,86
10	6	139,37