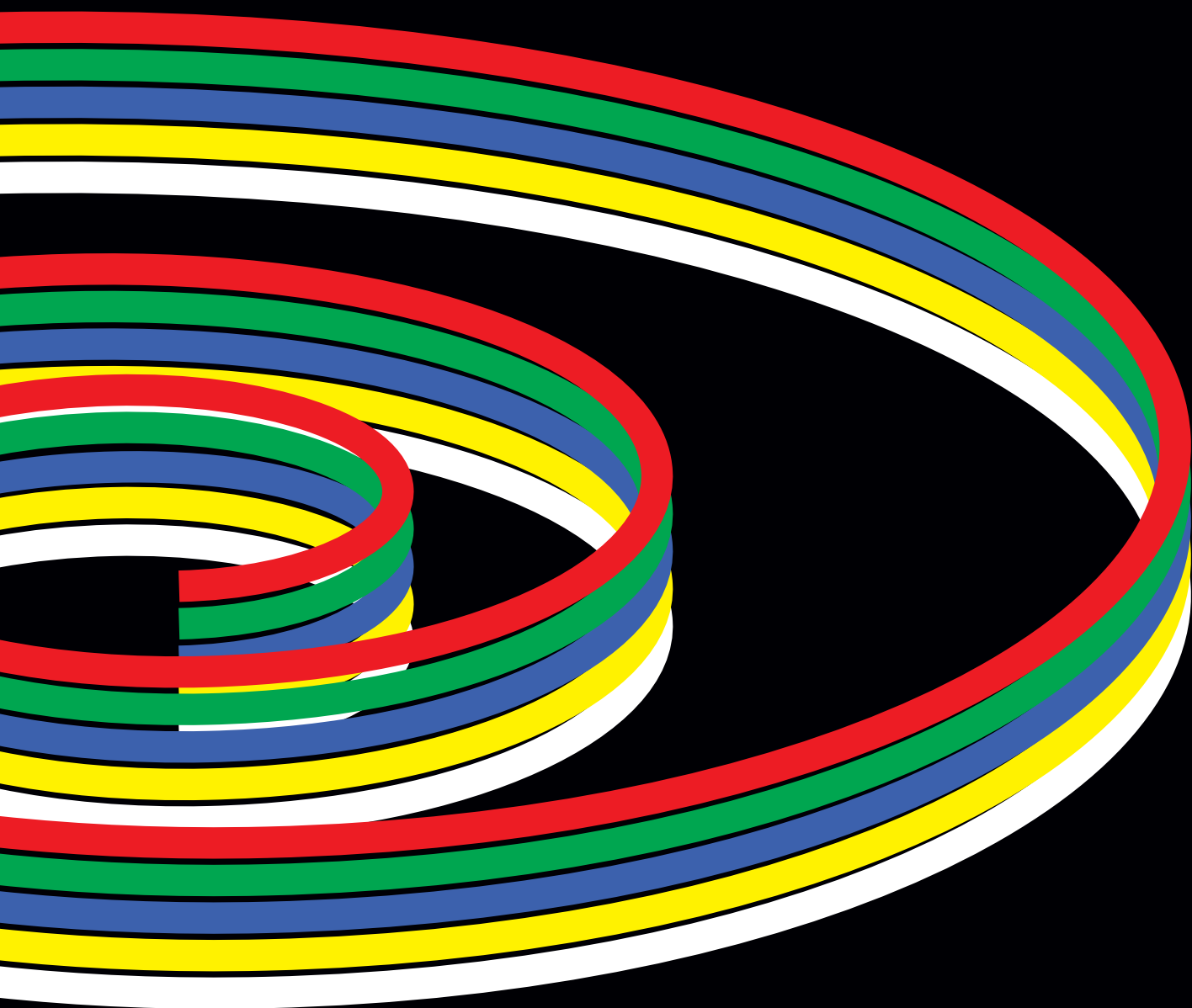








ELTE Licht GmbH
Albersallee 16
D 47533 Kleve
www.eltelicht.com
info@eltelicht.com

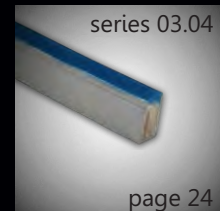
series 01: flat top slim



series 02: dome top slim



series 03: flat top medium



series 04: dome top medium



**series 05: flat side large, super-high lumen output
vertically flexible**



series 06: flat range, horizontally/vertically flexible



ELTE

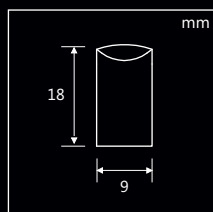
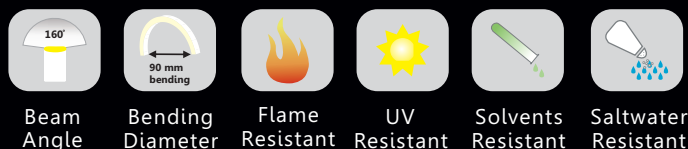
flat top slim



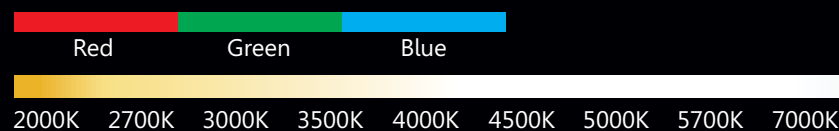
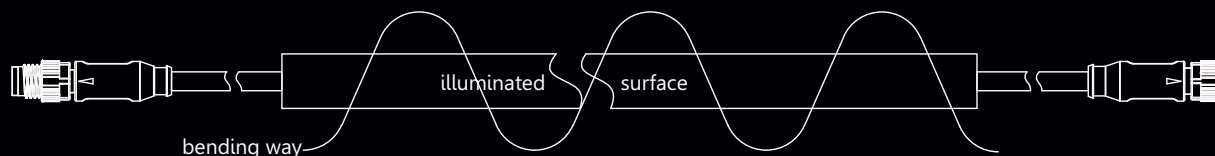
item: flexible linear LED light
main feature: flat top, slim white profile
material: UV-ray stabilized and flame resistant PVC
 slimmest in range, flat opal top with 160° beam angle
 uniform light distribution (dots-free)
 wide range of CCT and various LED colors
 horizontally flexible white profile
 bending diameter of min 90mm
 continuous length up to 100m

LED: SMD (Epistar)
CRI: >80
Binning: 3 MacAdam, one bin
LED driver/DMX: remote
Volt DC: 24V CC/CV
 ND - non-dimmable
 PH - phase dimmable
 010V - 0-10V dimmable
 DALI - compatible with DALI
 DMX - controlled by DMX

Application:
 indoors: offices, decorative areas
 outdoors: signs, architectural features
 facade, sculptures, swimming pools, parks, etc.
Operating temperature range: -20° ~ +55°C
Storage temperature: -20° ~ +60°C
LED Lifetime: 60,000 hrs



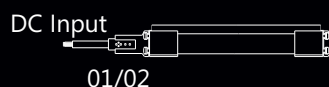
horizontally flexible



LED color options:
 - white (2000-7000K)
 - single fixed various colors (WH/R/G/B/AMB)

item code	11.09.S01.01.01.3.5		11.09.S01.01.02.05		11.09.S01.01.03.05		
watt	3.5W		5W		5W		
LED color	red/amber		green/blue/white		red/amber/green/blue/white		
volt	24V DC		24V DC		230V AC		
LEDs/m	72 LEDs		72 LEDs		72 LEDs		
distance b/w LEDs	1.39cm		1.39cm		1.39 cm		
cutting unit	9 LEDs (12.5 cm)		6 LEDs (8.33 cm)		72 LEDs (1 m)		
IP-rating	IP68		IP68		IP65		
driver	35W	60W	85W	100W	120W	150W	180W
max length (3.5W)	9m	15m	20m	25m	30m	37.5m	40m
max length (5W)	6m	10.5m	15m	17.5m	21m	26.5m	30m

Connection options



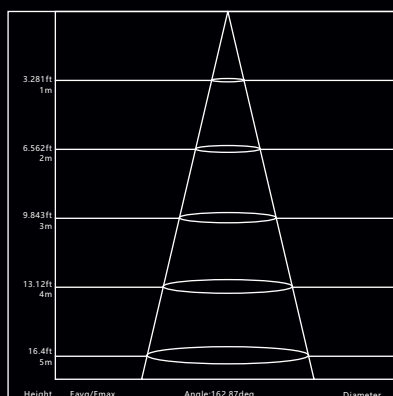
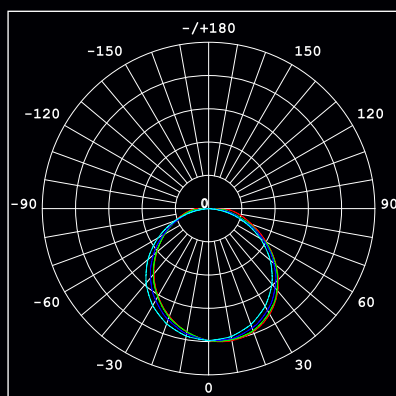
packaging:
 carton
 75m/ctn
 578*465*195mm
 20.5kg

Ordering Guide:
 11.09.S01.01.01.3.5+RED+AL.CH.RIG
 (item code+amber+driver+channel)



Photometric Data

color	item code: 11.09.S01.01.02.05		item code: 11.09.S01.01.03.05	
	CCT/wavelength	lumen/m	CCT/wavelength	lumen/m
red	620-630nm	>45 lm	620-630nm	>40 lm
green	520-530nm	>80 lm	520-530nm	>80 lm
blue	460-470nm	>15 lm	465-475nm	>12 lm
amber	590-595nm	>50 lm	590-595nm	>60 lm
warm white	2725+/-145K	>120 lm	2725+/-145K	>100 lm
white	3465+/-245K	>120 lm	3465+/-245K	>100 lm
cool white	4503+/-243K	>120 lm	4503+/-243K	>100 lm
daylight white	5665+/-355K	>120 lm	5665+/-355K	>100 lm


Note:

*IES files available on request

Accessories

clasp front connector
(FR.CNCT)



clasp end cap
(END CAP)



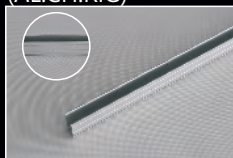
Optional Accessories

male and female
connector



Installation accessories

aluminum profile
(AL.CH.RIG)



self-locking
aluminum profile
(AL.CH.RIG+SLF.LCK)



Tools (additional tools to order on necessity)

cutter



gripper



insert inducer



Drivers

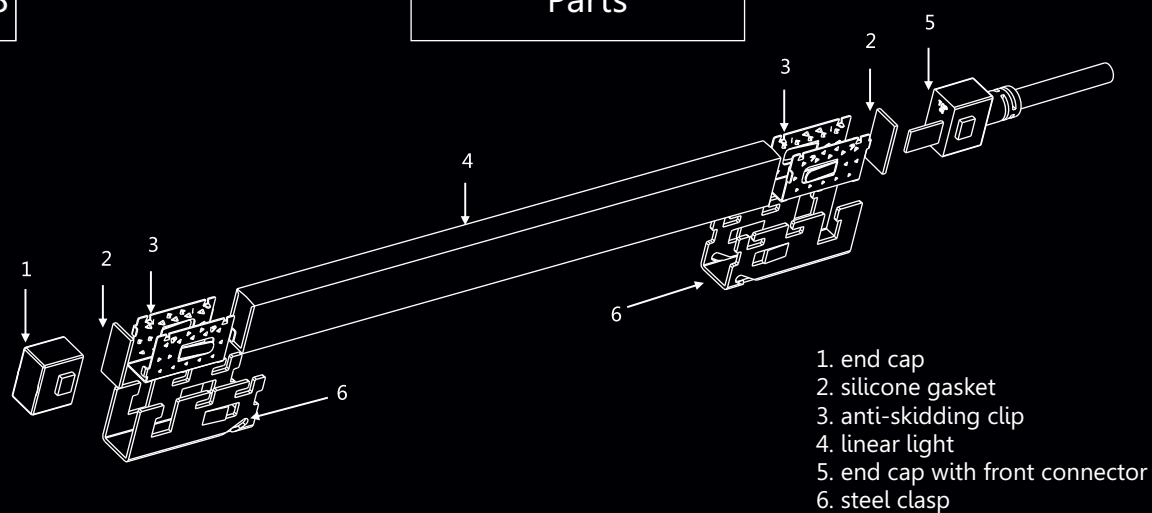

Note:

* Power, type (dim/non-dim) and IP of drivers to be discussed as per requirement

IP68

IP40

Parts



1. end cap



2. silicone gasket



3. anti-skidding clip



4. linear light

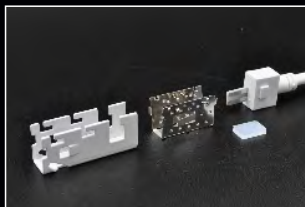


5. end cap with front connector

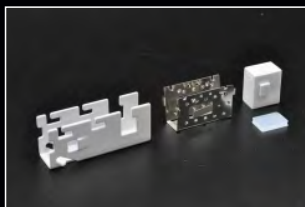


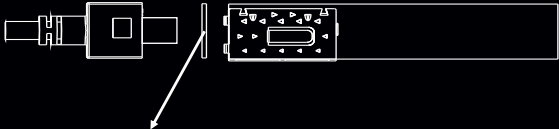
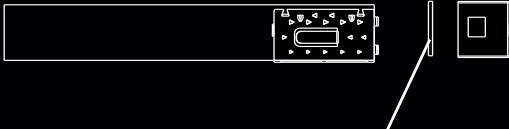
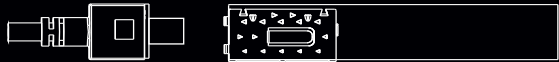
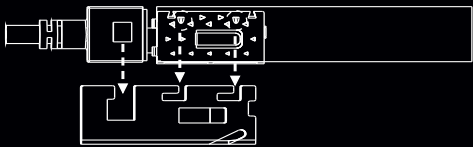
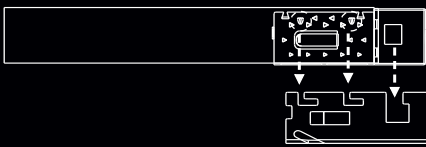
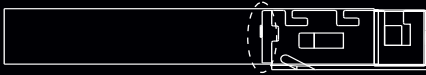
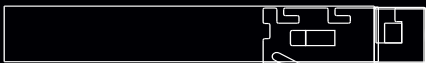
6. steel clasp

Front Connector with clasp, anti-skidding clip, silicone

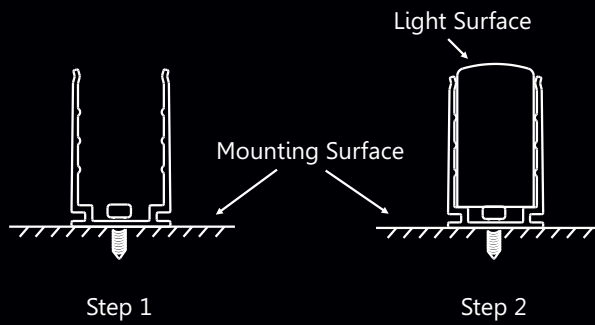
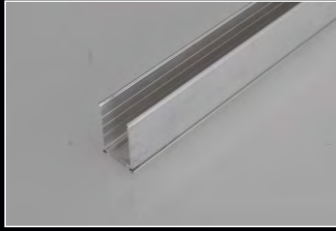


End Cap with clasp, anti-skidding clip, silicone

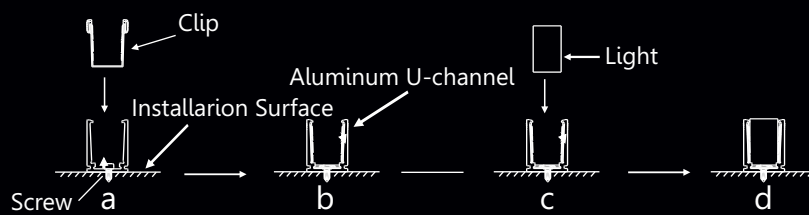
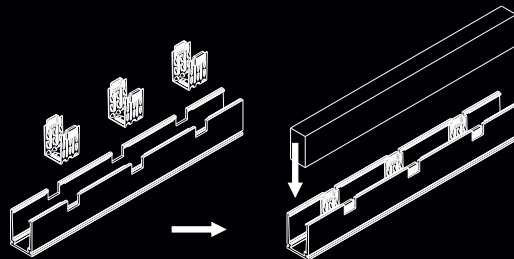
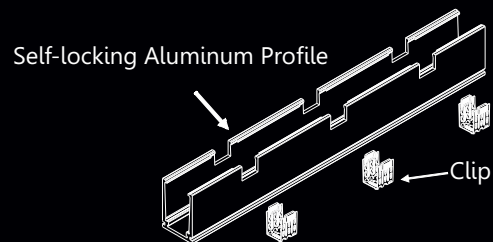
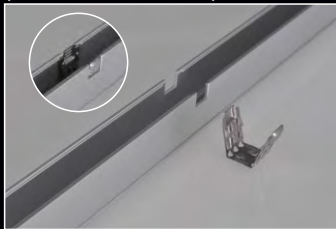


Screw Front Connector Installation Steps	Screw End Cap Installation Step
① 	① 
② 	② 
③ 	③ 
④ 	④ 
⑤ 	⑤ 
⑥  ← Push in using gripper	⑥  Push in using gripper →
⑦ 	⑦ 

aluminum profile
(AL.CH.RIG)



self-locking aluminum profile
(AL.CH.RIG+SLF.LCK)





ELTE

dome top slim



item: flexible linear LED light

main feature: dome top, slim white profile

material: UV-ray stabilized and flame resistant PVC
 slimmest in range, dome opal top with 270° beam angle
 uniform light distribution (dots-free)
 wide range of CCT and various LED colors
 horizontally flexible white profile
 bending diameter of min 120mm
 continuous length up to 100m

LED: SMD (Epistar)

CRI: >80

Binning: 3 MacAdam, one bin

LED driver/DMX: remote

Volt DC: 24V CC/CV

ND - non-dimmable

PH - phase dimmable

010V - 0-10V dimmable

DALI - compatible with DALI

DMX - controlled by DMX

Application:

indoors: offices, decorative areas

outdoors: signs, architectural features

facade, sculptures, swimming pools, parks, etc.

Operating temperature range: -20° ~ +55°C

Storage temperature: -20° ~ +60°C

LED Lifetime: 60,000 hrs



Beam
Angle



Bending
Diameter



Flame
Resistant



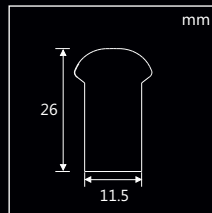
UV
Resistant



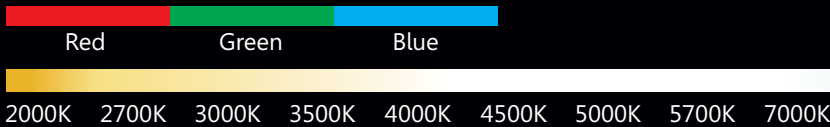
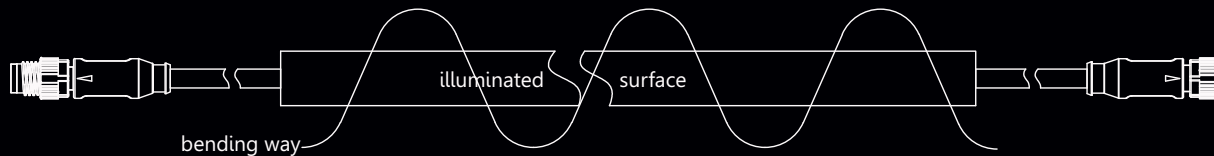
Solvents
Resistant



Saltwater
Resistant



horizontally flexible



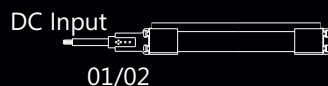
LED color options:

- white (2000-7000K)

- single fixed various colors (WH/R/G/B/AMB)

item code	11.09.S02.01.01.3.5		11.09.S02.01.02.05		11.09.S02.01.03.05		
watt	3.5W		5W		5W		
LED color	red/amber		green/blue/white		red/amber/green/blue/white		
volt	24V DC		24V DC		230V AC		
LEDs/m	72 LEDs		72 LEDs		72 LEDs		
distance b/w LEDs	1.39cm		1.39cm		1.39 cm		
cutting unit	9 LEDs (12.5 cm)		6 LEDs (8.33 cm)		72 LEDs (1 m)		
IP-rating	IP68		IP68		IP65		
driver	35W	60W	85W	100W	120W	150W	180W
max length (3.5W)	9m	15m	20m	25m	30m	37.5m	40m
max length (5W)	6m	10.5m	15m	17.5m	21m	26.5m	30m

Connection options



packaging:

carton
 50m/ctn
 632*522*225mm
 25kg

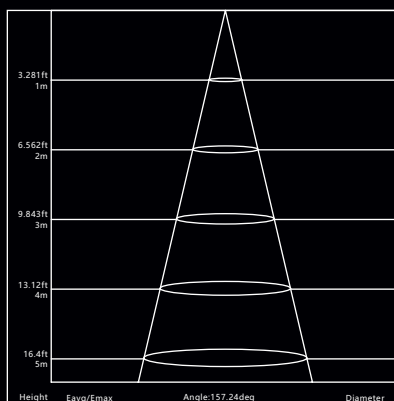
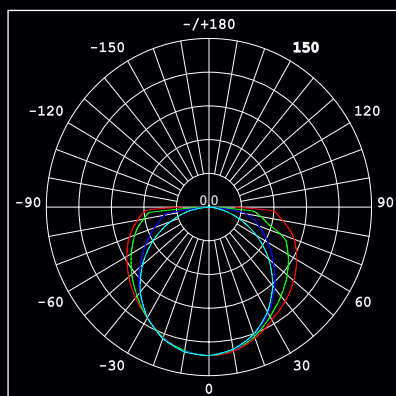


Ordering Guide:

11.09.S02.01.01.3.5+CT27+DALI+AL.CH.RIG
 (item code+CCT+driver+channel)

Photometric Data

color	item code: 11.09.S02.01.05		item code: 11.09.S02.01.03.05	
	CCT/wavelength	lumen/m	CCT/wavelength	lumen/m
red	620-630nm	>60 lm	620-630nm	>45 lm
green	520-530nm	>100 lm	520-530nm	>100 lm
blue	460-470nm	>20 lm	465-475nm	>15 lm
amber	590-595nm	>65 lm	590-595nm	>70 lm
warm white	2725+/-145K	>130 lm	2725+/-145K	>120 lm
white	3465+/-245K	>130 lm	3465+/-245K	>120 lm
cool white	4503+/-243K	>130 lm	4503+/-243K	>120 lm
daylight white	5665+/-355K	>130 lm	5665+/-355K	>120 lm


Note:

*IES files available on request

Accessories

clasp front connector
(FR.CNCT)



clasp end cap
(END CAP)



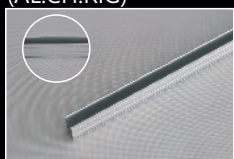
Optional Accessories

male and female
connectors



Installation accessories

aluminum profile
(AL.CH.RIG)



self-locking
aluminum profile
(AL.CH.RIG+SLF.LCK)



Tools (additional tools to order on necessity)

cutter



gripper



insert inducer



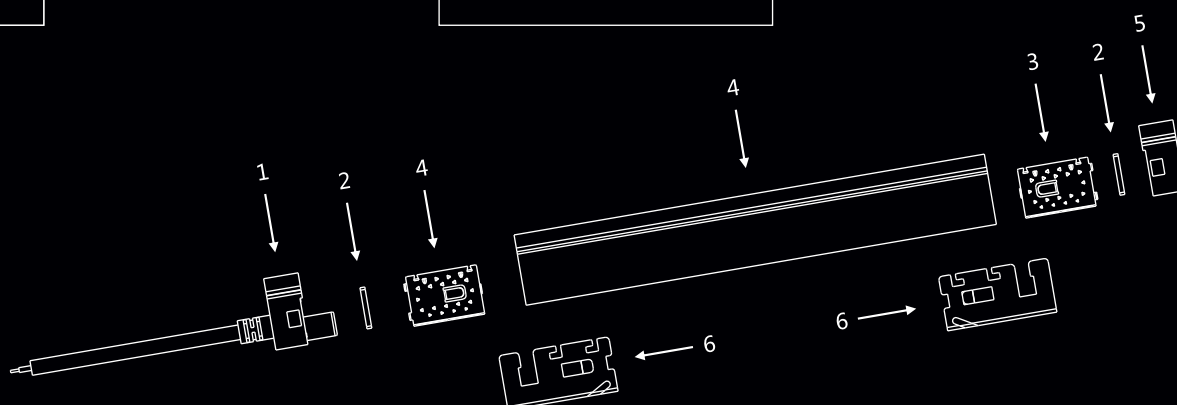
Drivers


Note:

* Power, type (dim/non-dim) and IP of drivers to be discussed as per requirement

IP68

Parts



1. end cap with front connector
2. silicone gasket
3. anti-skidding clip
4. linear light
5. end cap
6. steel clasp



1. end cap with front connector



2. silicone gasket



3. anti-skidding clip



4. linear light

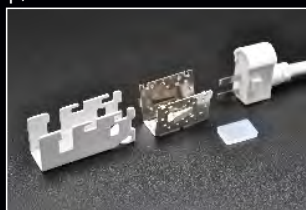


5. end cap



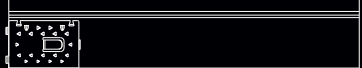
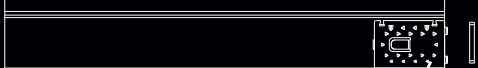
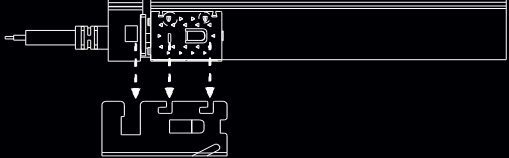
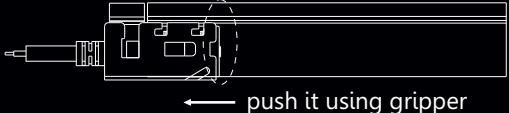
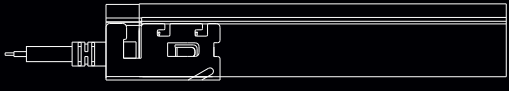
6. steel clasp

Front Connector with clasp, anti-skidding clip, silicone



End Cap with clasp, anti-skidding clip, silicone



Clasp Front Connector Installation Steps	Clasp End Cap Installation Step
① 	⑧ 
② 	⑨ 
③ 	⑩ 
④ 	⑪ 
⑤ 	⑫ 
⑥  ← push it using gripper	⑬  push it using gripper →
⑦ 	⑭ 

ELTE

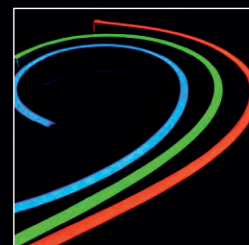
S03.01
color changing (RGBW)
white top/white profile



S03.02
high lumen output
white top/white profile



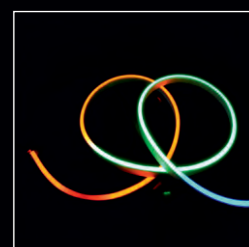
S03.03
RGBY LED
colored top/colored profile



S03.04
RGB LED
colored top/white profile



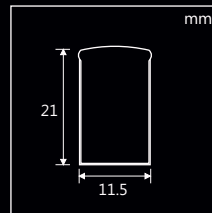
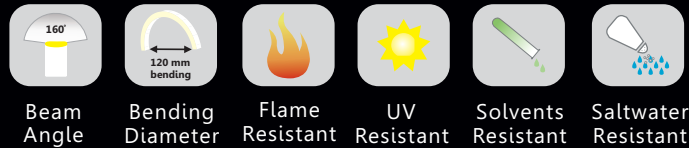
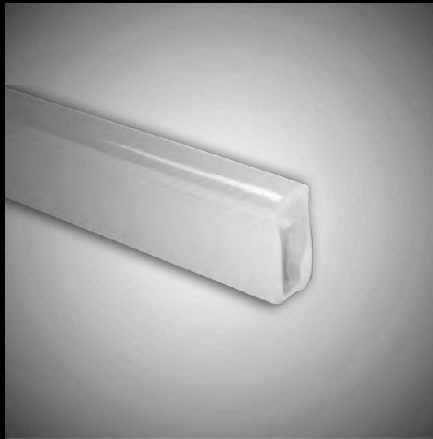
S03.05
color changing-chasing
programmable
white top/white profile



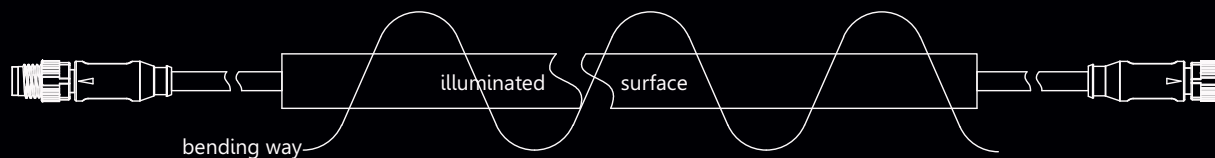
item: flexible linear LED light
main feature: flat top medium, RGBW color-changing
material: UV-rays stabilized and flame resistant PVC
 medium slim, flat opal top diffusing 160° beam angle
 uniform light distribution (dots-free)
 RGBW color changing
 horizontally flexible white profile
 bending diameter of min 120mm
 continuous length up to 10m

LED: SMD (Epistar), RGB
CRI: >80
Binning: 3 MacAdam, one bin
LED driver/DMX: remote
Volt DC: 24V CC/CV
 DMX - controlled by DMX

Application:
 indoors: offices, decorative areas
 outdoors: signs, architectural features
 facade, sculptures, swimming pools, parks, etc.
Operating temperature range: -20° ~ +55°C
Storage temperature: -20° ~ +60°C
LED Lifetime: 60,000 hrs



horizontally flexible

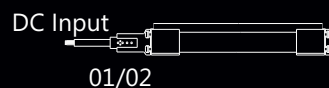


item code 11.09.S03.01.01.12
 watt 12W
 volt 24V DC
 LEDs/m 60 LEDs
 distance b/w LEDs 1.67 cm
 cutting unit 6 LEDs (10 cm)
 continuous length 10m
 IP-rating IP68/IP40



driver	35W	60W	100W	120W	150W	150W	180W
max length (12W)	2.5m	4.5m	7.5m	9m	10m		13.5m

Connection options



packaging:
 carton
 50m/ctn
 578*465*195mm
 21kg



customized length options of injection-molded light

	Length 1	Length 2	Length 3	Length 4	Length 5	Length 6
Length	10cm	20cm	50cm	100cm	200cm	500cm

connection diagram for injection-molded light

side connector



bottom connector

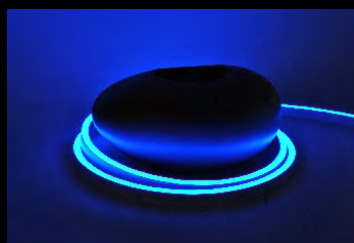
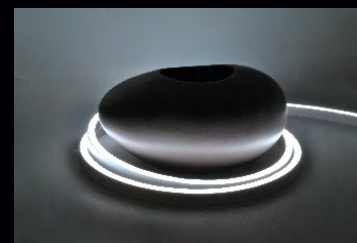
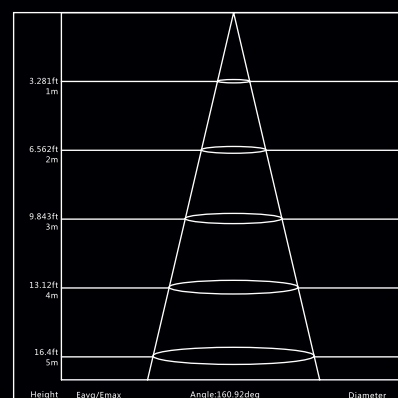
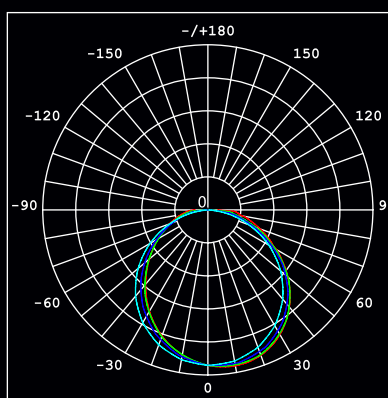


Photometric Data

	item code: 11.09.S03.01.01.12	
color	CCT/wavelength	lumen/m
red	620-630nm	> 20 lm
green	520-530nm	> 75 lm
blue	460-470nm	> 15 lm
white		> 110 lm

Note:

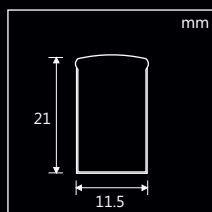
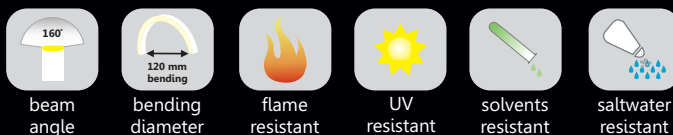
*IES files available on request



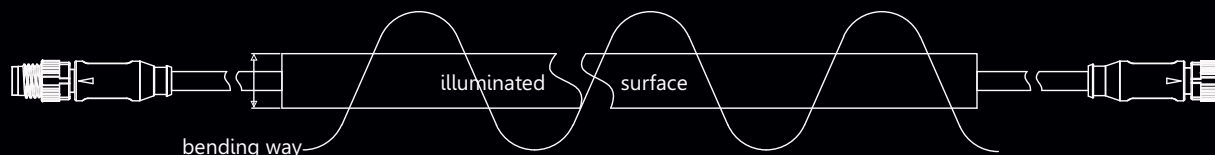
item: flexible linear LED light
main feature: flat top medium, high lumen output
material: UV-ray stabilized and flame resistant PVC
 medium slim, flat opal top with 160° beam angle
 uniform light distribution (dots-free)
 wide range of CCT and various LED colors
 horizontally flexible white profile
 bending diameter of min 120mm
 continuous length up to 100m

LED: SMD (Epistar)
CRI: >80
Binning: 3 MacAdam, one bin
LED driver/DMX: remote
Volt DC: 24V CC/CV
 ND - non-dimmable
 PH - phase dimmable
 010V - 0-10V dimmable
 DALI - compatible with DALI
 DMX - controlled by DMX

Areas of use:
indoors: offices, decorative areas
outdoors: signs, architectural features
 facade, sculptures, swimming pools, parks, etc.
Operating temperature range: -20° ~ +55°C
Storage temperature range: -20° ~ +60°C
LED Lifetime: 60,000 hrs



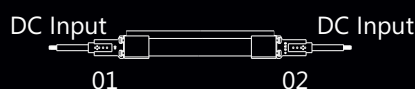
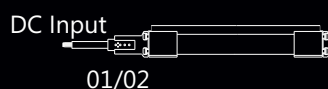
horizontally flexible



code	11.09.S03.02.01.6.5	11.09.S03.02.02.7.2	11.09.S03.02.03.10.6	11.09.S03.02.04.12
watt	6.5W	7.2W	10.6W	12W
LED color	red/amber/white	red/amber	green/blue/white	green/blue/white
current	constant current	constant voltage	constant current	constant voltage
volt	24V DC	24V DC	24V DC	24V DC
LEDs/m	60 LEDs	60 LEDs	60 LEDs	60 LEDs
distance b/w LEDs	1.67 cm	1.67 cm	1.67 cm	1.67 cm
cutting unit	10 LEDs (16.7 cm)	10 LEDs (16.7 cm)	6 LEDs (10 cm)	6 LEDs (10 cm)
continuous length	15m	15m	10m	10m
IP-rating	IP68/IP67/IP40	IP68/IP67/IP40	IP68/IP67/IP40	IP68/IP67/IP40

driver	35W	60W	100W	120W	150W	150W	180W	240W	320W
max length (7.2W)	4m	7.5m	12m	15m		18.5m	22m	30W	
max length (12W)	2.5m	4.5m	7.5m	9m	10m		13.5m	18W	20m

Connection options



packaging:

carton
 50m/ctn
 578*465*195mm
 21kg

Ordering Guide:
 11.09.S03.02.01.6.5+AMB+IP68+DMX+AL.CH.RIG
 (item code+amber+IP+driver+channel)

customized length of injection-molded light (IP67)

	Length 1	Length 2	Length 3	Length 4	Length 5	Length 6	Length 7
Length (green/blue/amber)	10cm	20cm	50cm	100cm	200cm	500cm	1000cm
Length (red/amber)	16.7cm	33.3cm	50cm	100cm	200cm	500cm	1000cm

connection diagram for injection-molded light

side connector

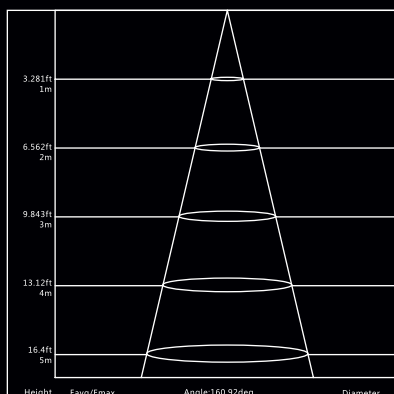
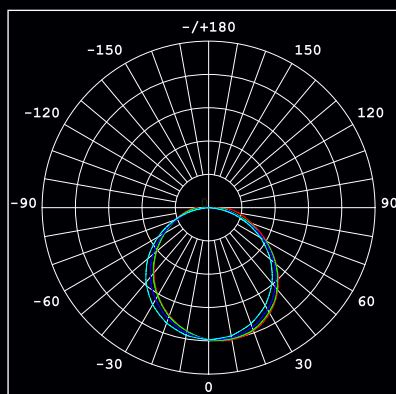


bottom connector



Photometric Data

color	CCT/wavelength	11.09.S03.02.03.10.6 (CC)	11.09.S03.02.01.6.5 (CC)	11.09.S03.02.04.12 (CV)
red	620-630nm	>90 lm	>60 lm	>100 lm
green	520-530nm	>130 lm	>80 lm	>250 lm
blue	460-470nm	>25 lm	>15 lm	>35 lm
amber	590-595nm	>100 lm	>80 lm	>75 lm
warm white	2725±145K	>280 lm	>180 lm	>320 lm
	3045±145K			>330 lm
white	3465±245K	>300 lm	>200 lm	>340 lm
	3985±275K			>350 lm
cool white	4503±243K	>320 lm	>220 lm	>360 lm
	5028±283K			>370 lm
daylight white	5665±355K	>340 lm	>240 lm	>380 lm
	6530±510K			>390 lm



Notes:

- * mention color of LED in code when ordering
- * custom length and wattage options available on request
- * power of LED driver should be 20% higher than power of the product
- * wattage data of products is (+/-) 10%
- * power consumption tolerance is (+/-) 1W
- * CCT data is given with an accuracy of (+/-) 100K
- * Luminous flux tolerance is (+/-) 10%

Note:

- *IES files available on request

item: flexible linear LED light

main feature: colored top and profile, flat medium

material: UV-ray stabilized and flame resistant PVC medium slim, flat colored top diffusing 160° beam angle uniform light distribution (dots-free)

horizontally flexible colored profile:

red, green, blue, yellow

bending diameter of min 120mm

various continuous length options: 10m/15m/80m

LED: SMD (Epistar)

CRI: >80

Binning: 3 MacAdam, one bin

LED driver/DMX: remote

Volt DC: 24V CC/CV

ND - non-dimmable

PH - phase dimmable

010V - 0-10V dimmable

DALI - compatible with DALI

DMX - controlled by DMX

Areas of use:

indoors: offices, decorative areas

outdoors: signs, architectural features facade, sculptures, swimming pools, parks, etc.

Operating temperature range: -20° ~ +55°C

Storage temperature range: -20° ~ +60°C

LED Lifetime: 60,000 hrs

RoHS

UL US LISTED

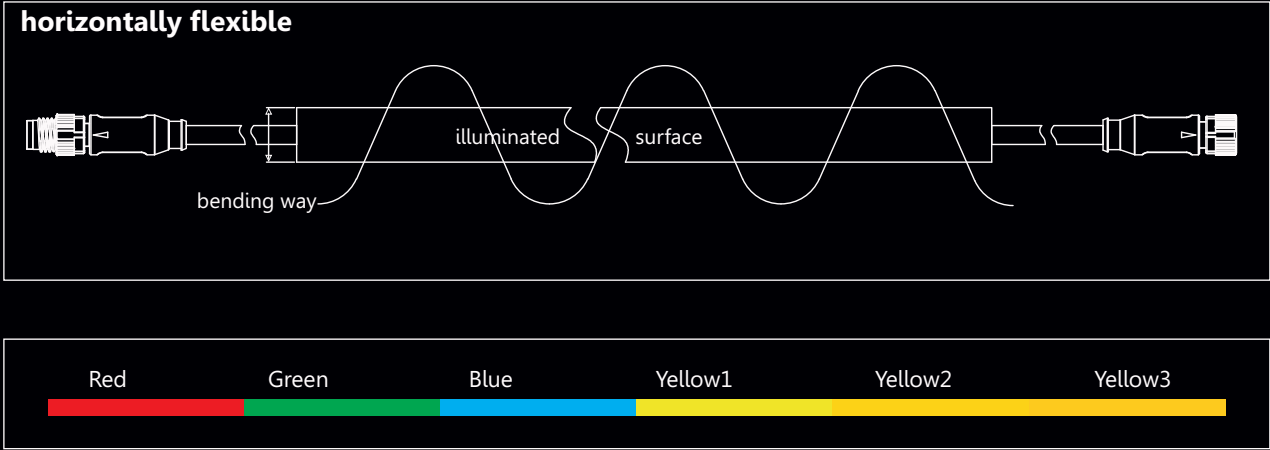
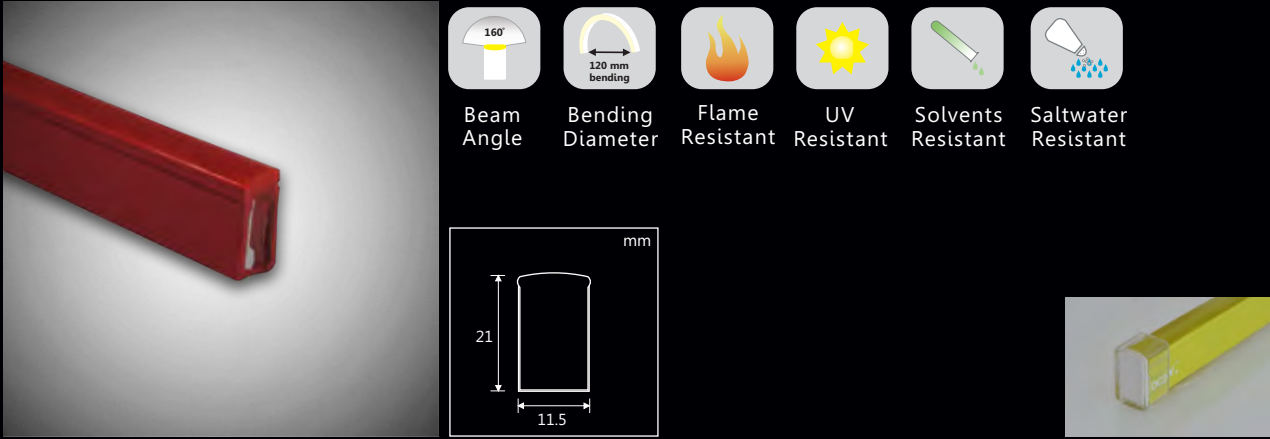
CE

TUV

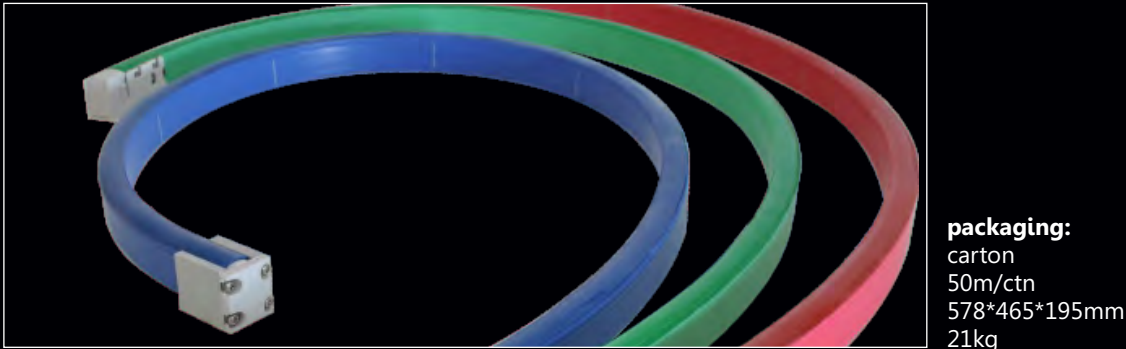
IK08

IP40 IP68

5 years warranty



item code	11.09.S03.03.01.6.5	11.09.S03.03.02.10.6	11.09.S03.03.03.12
watt	6.5W	10.6W	12W
LED color	red	green/blue/yellow	red/green/blue/yellow
volt	24V DC	24V DC	230V AC
LEDs/m	60 LEDs	60 LEDs	72 LEDs
distance b/w LEDs	1.67 cm	1.67 cm	1.39 cm
cutting unit	10 LEDs (16.7 cm)	6 LEDs (10 cm)	72 LEDs (1 m)
continuous length	15m	10m	80m
IP-rating	IP68/IP40	IP68/IP40	IP65/IP40



customized length of injection-molded light

	Length 1	Length 2	Length 3	Length 4	Length 5	Length 6	Length 7
Length (green/blue/amber)	10cm	20cm	50cm	100cm	200cm	500cm	1000cm
Length (red/amber)	16.7cm	33.4cm	50cm	100cm	200cm	500cm	1000cm

connection diagram for injection-molded light

side connector



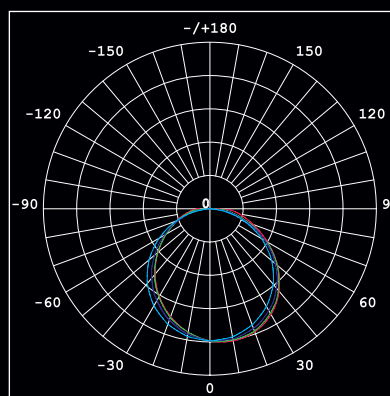
bottom connector



Photometric Data

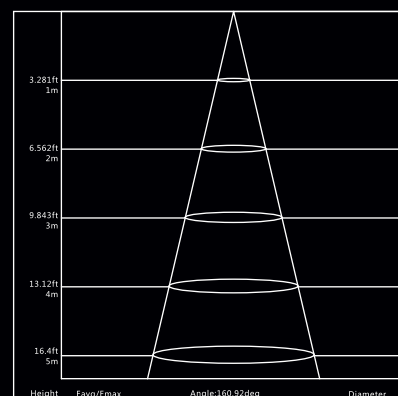
	item code: 11.09.S03.03.03.12	
color	CCT/wavelength	lumen/m
red	620-630nm	>30 lm
green	520-530nm	>75 lm
blue	465-475nm	>8 lm
yellow1	574±1.5nm	>150 lm
yellow2	578±1.5nm	>150 lm
yellow3	582±1.5nm	>150 lm

	item code: 11.09.S03.03.02.10.6	
color	CCT/wavelength	lumen/m
red	620-630nm	>90 lm
green	520-530nm	>132 lm
blue	460-470nm	>14 lm
yellow1	574±1.5nm	>200 lm
yellow2	578±1.5nm	>200 lm
yellow3	582±1.5nm	>200 lm



Note:

*IES files available on request



Notes:

- * mention color of LED in code when ordering
- * custom length and wattage options available on request
- * power of LED driver should be 20% higher than power of the product
- * power consumption data of products is (+/-) 10%
- * power consumption tolerance is (+/-) 1W
- * CCT data is given with an accuracy of (+/-) 100K
- * Luminous flux tolerance is (+/-) 10%

item: flexible linear LED light

main features: colored top, white profile, flat top medium

material: UV-rays stabilized and flame resistant PVC

medium slim, flat colored top diffusing 160° beam angle

uniform light distribution (dots-free)

red, green, blue, yellow

horizontally flexible white profile

bending diameter of min 120mm

continuous length up to 100m

LED: SMD (Epistar)

CRI: >80

Binning: 3 MacAdam, one bin

LED driver/DMX: remote

Volt DC: 24V CC/CV

ND - non-dimmable

PH - phase dimmable

010V - 0-10V dimmable

DALI - compatible with DALI

DMX - controlled by DMX

Application:

indoors: offices, decorative areas

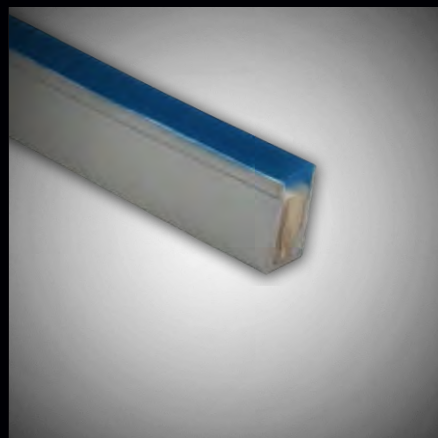
outdoors: signs, architectural features

facade, sculptures, swimming pools, parks, etc.

Operating temperature range: -20° ~ +55°C

Storage temperature: -20° ~ +60°C

LED Lifetime: 60,000 hrs



Beam
Angle



Bending
Diameter



Flame
Resistant



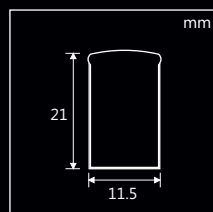
UV
Resistant



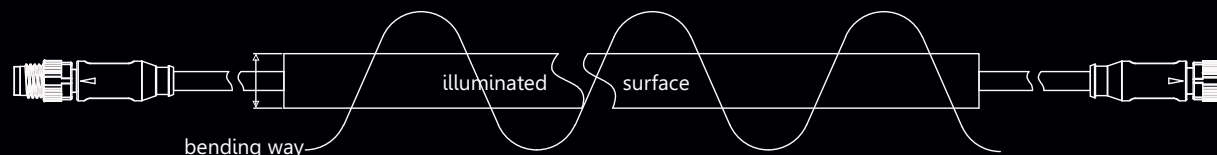
Solvents
Resistant



Saltwater
Resistant



horizontally flexible



Red

Green

Blue

Yellow1

Yellow2

Yellow3

item code

watt
LED color
volt
LEDs/m
distance b/w LEDs
cutting unit
continuous length
IP-rating

11.09.S03.04.01.6.5

6.5W
red
24V DC
60 LEDs
1.67 cm
10 LEDs (16.7 cm)
15 m
IP68/IP40

11.09.S03.04.02.10.6

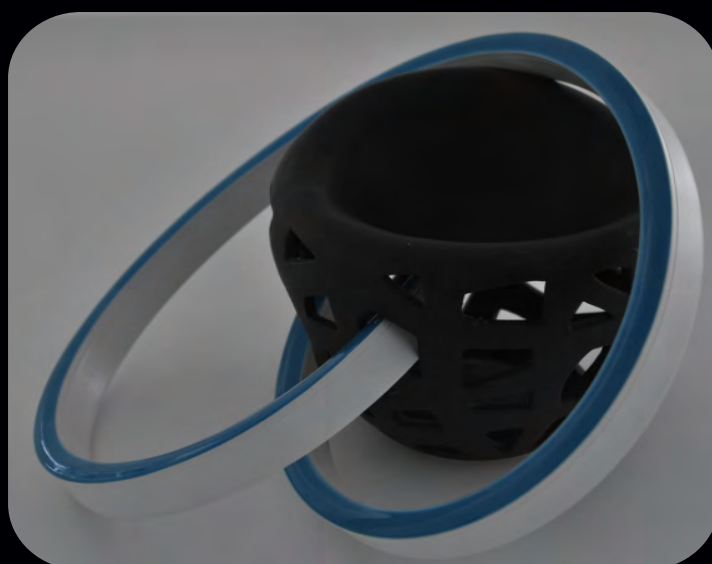
10.6W
green/blue/yellow
24V DC
60 LEDs
1.67 cm
6 LEDs (10 cm)
10 m
IP68/IP40

11.09.S03.04.03.12

12W
red/green/blue/yellow
230V AC
72 LEDs
1.39 cm
72 LEDs (1 m)
80 m
IP65/IP40

packaging:

carton
50m/ctn
578*465*195mm
21kg



customized length of injection-molded light

	Length 1	Length 2	Length 3	Length 4	Length 5	Length 6	Length 7
Length (green/blue/amber)	10cm	20cm	50cm	100cm	200cm	500cm	1000cm
Length (red/amber)	16.7cm	33.4cm	50cm	100cm	200cm	500cm	1000cm

connection diagram for injection-molded light

side connector



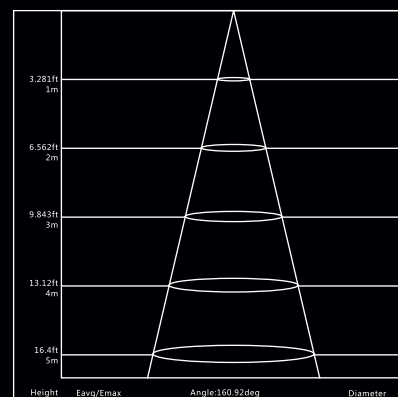
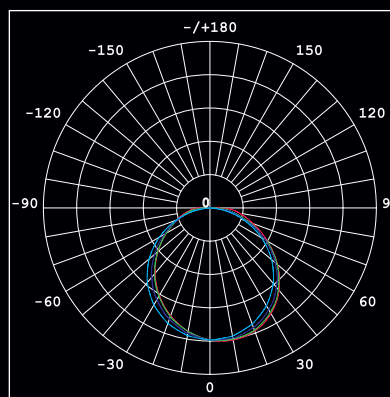
bottom connector



Photometric Data

	item code:11.09.S03.04.03.12	
color	CCT/wavelength	lumen/m
red	620-630nm	> 30 lm
green	520-530nm	> 75 lm
blue	465-475nm	> 8 lm
yellow1	574±1.5nm	> 150 lm
yellow2	578±1.5nm	> 150 lm
yellow3	582±1.5nm	> 150 lm

	item code: 11.09.S03.04.02.10.6	
color	CCT/wavelength	lumen/m
red	620-630nm	> 90 lm
green	520-530nm	> 132 lm
blue	460-470nm	> 14 lm
yellow1	574±1.5nm	> 200 lm
yellow2	578±1.5nm	> 200 lm
yellow3	582±1.5nm	> 200 lm



Note:

*IES files available on request

Notes:

- * mention color of LED in code when ordering
- * custom length and wattage options available on request
- * power of LED driver should be 20% higher than power of the product
- * power consumption data of products is (+/-) 10%
- * power consumption tolerance is (+/-) 1W
- * CCT data is given with an accuracy of (+/-) 100K
- * Luminous flux tolerance is (+/-) 10%



item: flexible linear LED light

main features: programmable, flat top medium

material: UV-rays stabilized and flame resistant PVC

medium slim, flat opal top diffusing 160° beam angle

uniform light distribution (dots-free)

white/RGB chasing effect

horizontally flexible white profile

bending diameter of min 120mm

continuous length up to 15m

Effects:

- chasing
- flowing
- flashing
- gradual changing
- fade-in/fade-out
- meteor shower
- skipper effect

Application:

indoors: offices, decorative areas

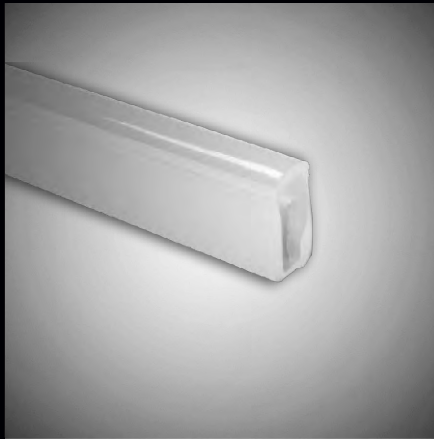
outdoors: signs, architectural features

facade, sculptures, swimming pools, parks, etc.

Operating temperature range: -20° ~ +55°C

Storage temperature: -20° ~ +60°C

LED Lifetime: 60,000 hrs



Beam Angle



Bending Diameter



Flame Resistant



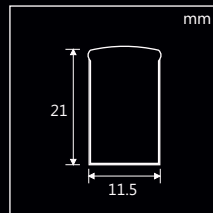
UV Resistant



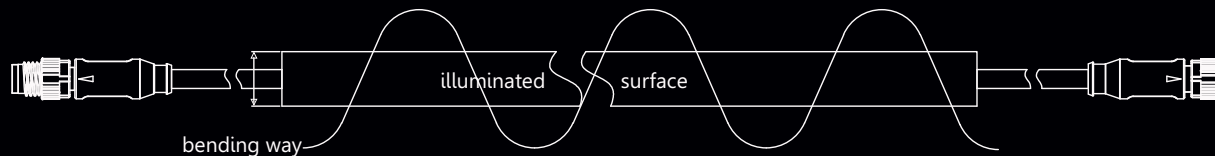
Solvents Resistant



Saltwater Resistant



horizontally flexible



Single Color Chasing

RGB Chasing

item code

watt

LED color

volt

LEDs/m

distance b/w LEDs

cutting unit

continuous length

IP-rating

11.09.S03.05.01.12

12W

red/green/blue/yellow

24V DC

56 LEDs

1.78 cm

7 LEDs (12.5 m)

15 m

IP68/IP40

packaging:

carton

50m/ctn

578*465*195mm

20kg



Ranges of S03.01/S03.02/S03.05

Sleeve Front Connector



Sleeve End Cap



Sleeve Middle Connector



Sleeve Jumper



IP40

Clasp Front Connector



Clasp End Cap



Injection-moulded Front Connector (side)



Injection-moulded Front Connector (bottom)



IP68

Screw Front Connector



Screw End Cap



Screw Jumper



IP68

Range of S03.03

Sleeve Front Connector



Sleeve End Cap



Sleeve Middle Connector



Sleeve Jumper



IP40

Screw Front Connector



Screw End Cap



Screw Jumper



IP68

Clasp Front Connector



Clasp End Cap



Injection-moulded Front Connector (side)



Injection-moulded Front Connector (bottom)



IP68

Range of S03.04

Sleeve Front Connector



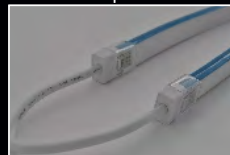
Sleeve End Cap



Sleeve Middle Connector



Sleeve Jumper



IP40

Screw Front Connector



Screw End Cap



Screw Jumper



IP68

Clasp Front Connector



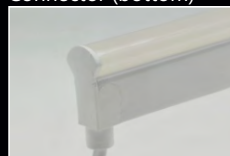
Clasp End Cap



Injection-moulded Front Connector (side)



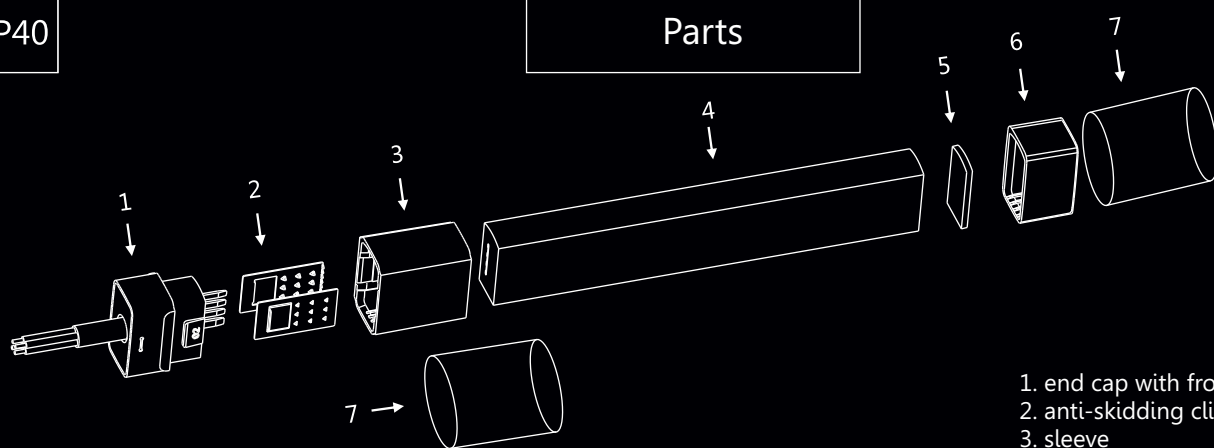
Injection-moulded Front Connector (bottom)



IP68

IP40

Parts



1. end cap with front connector
2. anti-skidding clip
3. sleeve
4. linear light
5. shading sheet
6. end cap
7. heat shrinkable sleeve



1. end cap with front connector



2. anti-skidding clip



3. sleeve



4. linear light



5. shading sheet

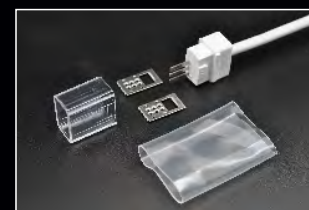


6. end cap



7. heat shrinkable sleeve

Sleeve with Front Connector



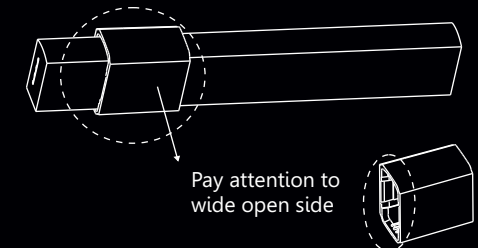
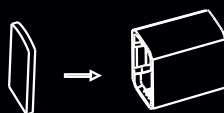
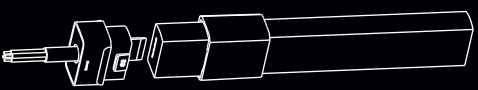
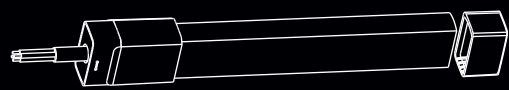
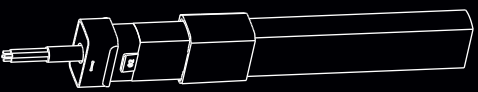
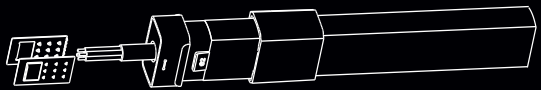
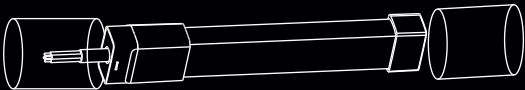
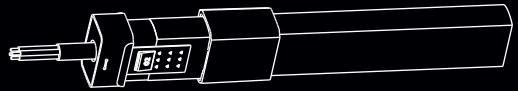
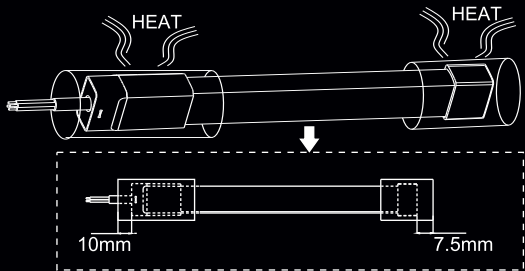
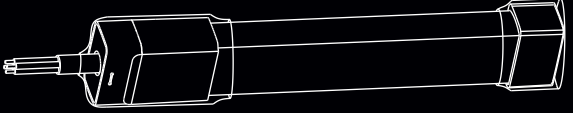
Sleeve with Middle Connector and heat-shrinkable Sleeve

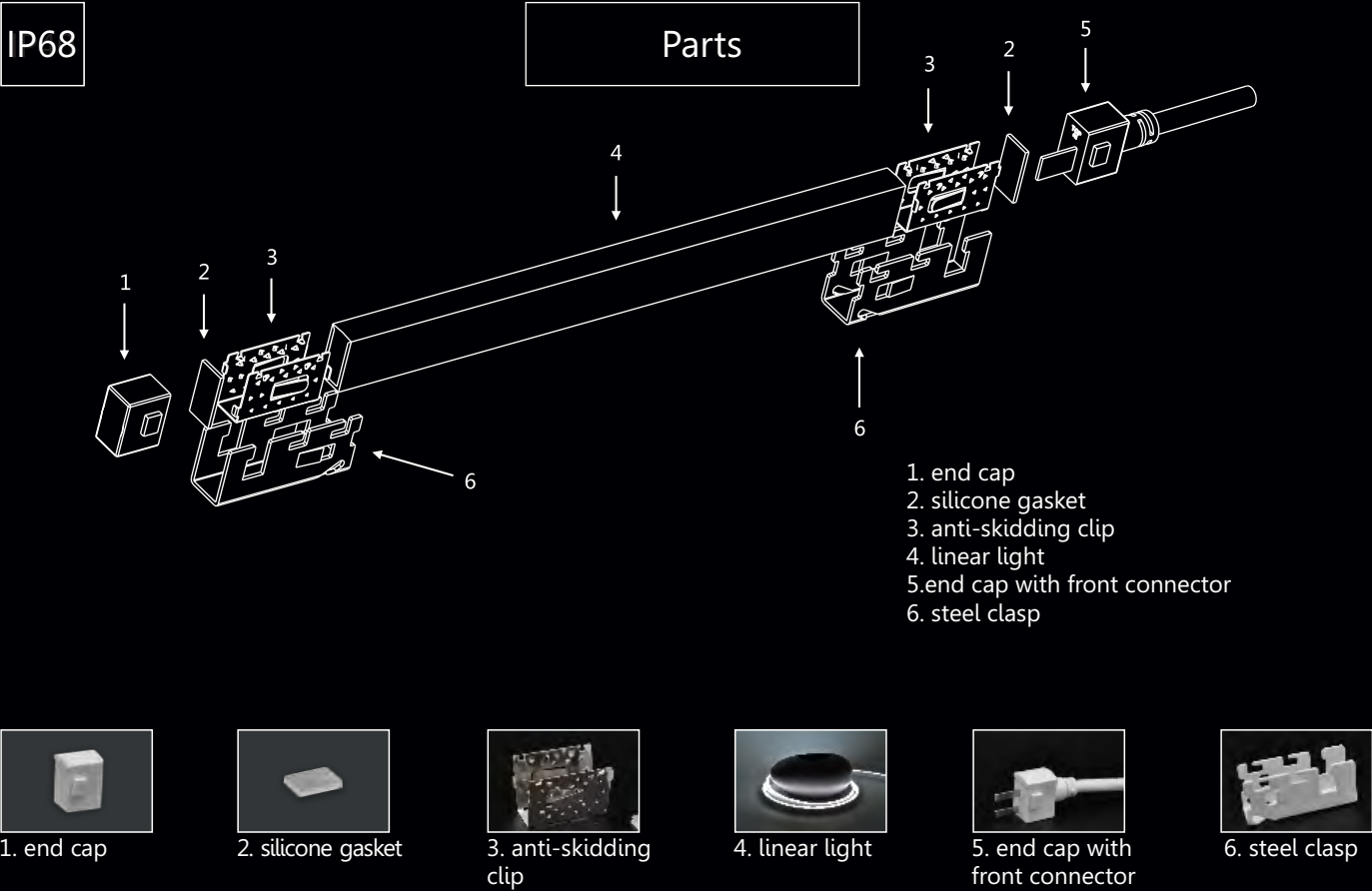


Sleeve with End Cap , silicone and heat-shrinkable Sleeve

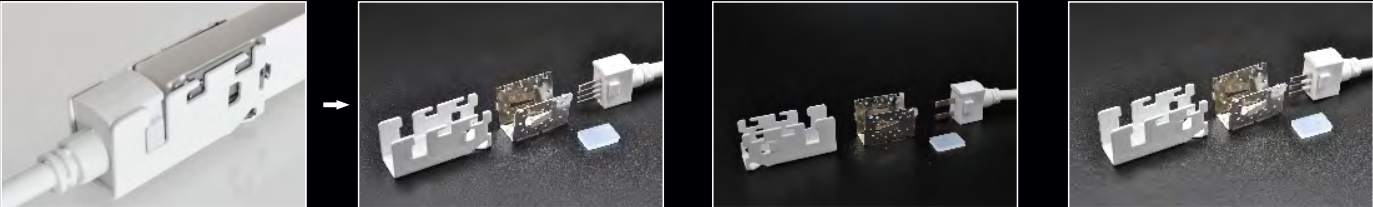


IP40

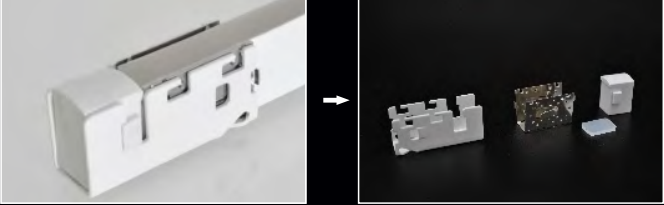
Front connector with sleeve installation steps	End cap with sleeve installation steps
①  Pay attention to wide open side	① 
② 	② 
③ 	③ 
④ 	④ 
⑤ 	⑤ 
⑥ 	⑥ 



Front Connector with clasp, anti-skidding clip, silicone



End Cap with clasp, anti-skidding clip, silicone

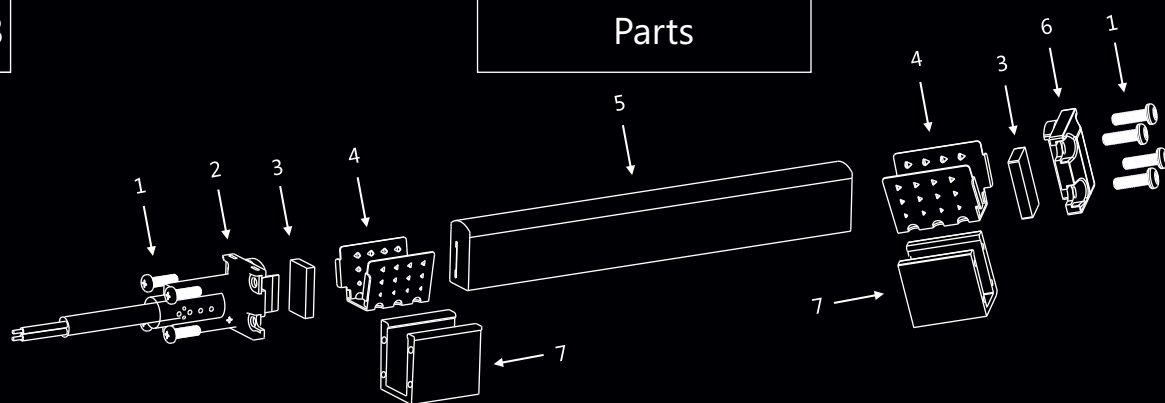


IP68

Clasp front connector installation steps	End clasp installation steps
1	8
2	9
3	10
4	11
5	12
6 ← push in using gripper	13 push in using gripper →
7	14

IP68

Parts



1. screws
2. end cap with front connector
3. silicone gasket
4. anti-skidding clip
5. linear light
6. end cap
7. aluminum mounting clip



1. screws



2. end cap with front connector



3. silicone gasket



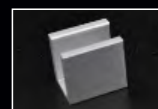
4. anti-skidding clip



5. linear light

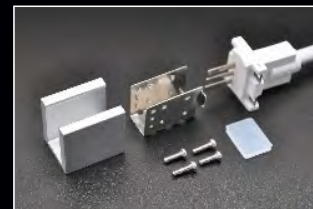
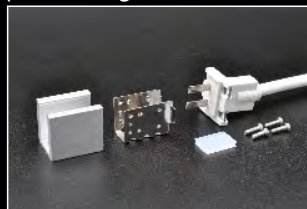
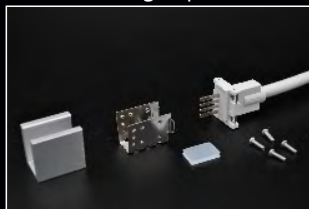


6. end cap

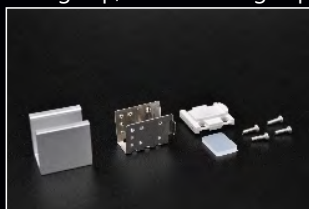


7. aluminum mounting clip

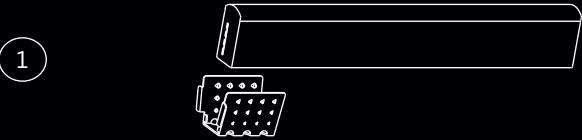
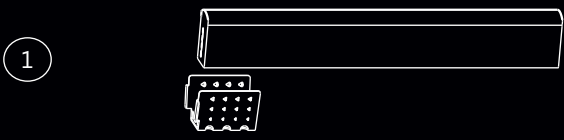
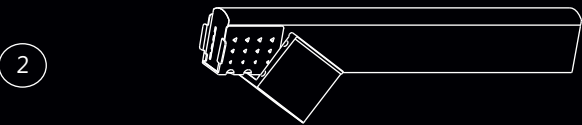
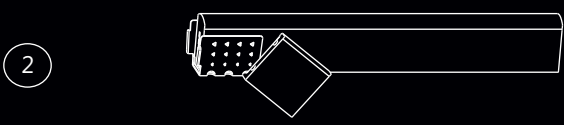
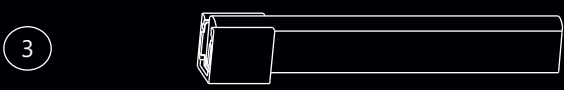
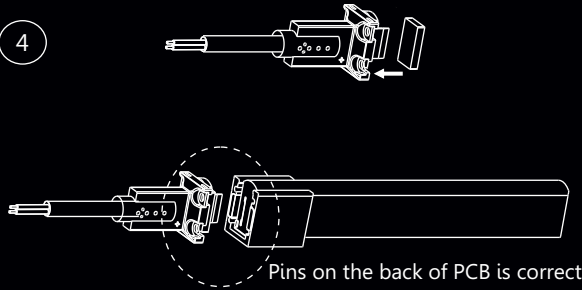
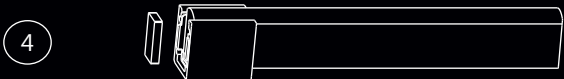
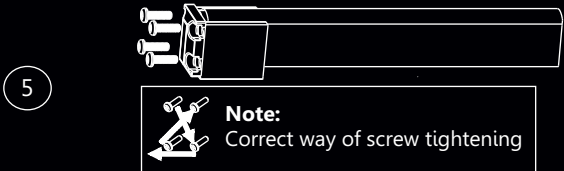
Front Connector with screws, aluminum mounting clip, anti-skidding clip, silicone gasket



End Cap with screws, aluminum mounting clip, anti-skidding clip, silicone gasket



IP68

Front screw connector installation steps	End screw cap installation steps
1	1
2	2
3	3
4 Pins on the back of PCB is correct	4 
5 Note: Correct way of screw tightening	5 Note: Correct way of screw tightening
6	6

Optional accessories

power cable for
seamless connection
(PWR.CBL.SML)



middle connector for
seamless connection
(CLIP.SML)



power T-type cable
(PWR.CBL.T)



male and female
connectors

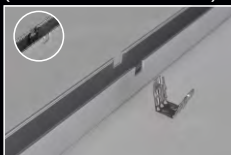


Installation accessories

aluminum profile
(AL.CH.RIG)



self-locking
aluminum profile
(AL.CH.RIG+SLF.LCK)



Tools (additional tools to order on necessity)

cutter



gripper



insert inducer



Drivers



Note:

* Power, type (dim/non-dim) and IP of drivers to be discussed as per requirements



ELTE

S04.01
color changing (RGBW)
white top/white profile



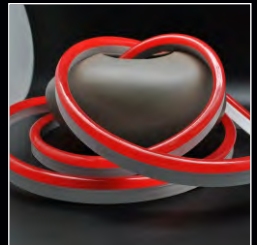
S04.02
high lumen output
white top/white profile



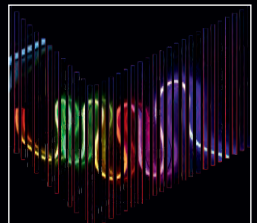
S04.03
RGBY LED
colored top/colored profile



S04.04
RGB LED
colored top/white profile



S04.05
color changing-chasing
programmable
white top/white profile



item: flexible linear LED light

main feature: dome top medium, RGBW color-changing

material: UV-rays stabilized and flame resistant PVC medium slim, dome opal top diffusing 270° beam angle uniform light distribution (dots-free)

RGBW color changing

horizontally flexible white profile

bending diameter of min 120mm

continuous length up to 10m

LED: SMD (Epistar), RGB

CRI: >80

Binning: 3 MacAdam, one bin

LED driver/DMX: remote

Volt DC: 24V CC/CV

DMX - controlled by DMX

Application:

indoors: offices, decorative areas

outdoors: signs, architectural features

facade, sculptures, swimming pools, parks, etc.

Operating temperature range: -20° ~ +55°C

Storage temperature: -20° ~ +60°C

LED Lifetime: 60,000 hrs

RoHS

CE

UL LISTED

CE

TUV

IP68
IP40

IK08

5 years
warranty





Beam Angle



Bending Diameter



Flame Resistant



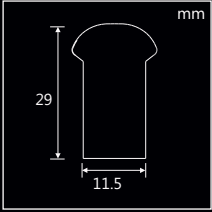
UV Resistant



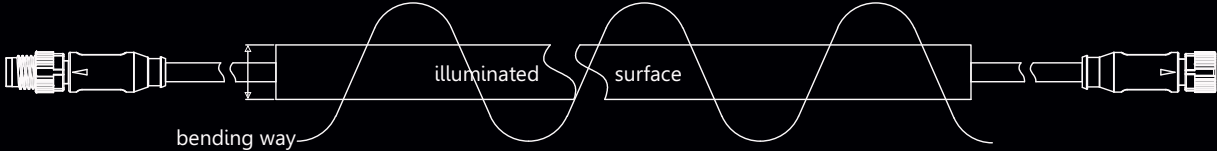
Solvents Resistant



Saltwater Resistant



horizontally flexible



item code

watt

LED color

volt

LEDs/m

distance b/w LEDs

cutting unit

continuous length

IP-rating

11.09.S04.01.01.12

12W

red/green/blue/yellow

24V DC

60 LEDs

1.67 cm

6 LEDs (10 cm)

10 m

IP68/IP40



driver	35W	60W	100W	120W	150W	180W	240W	320W
max length	2.5 m	4.5 m	7.5 m	9 m	10 m	13.5 m	18 m	20 m

Connection options

DC Input



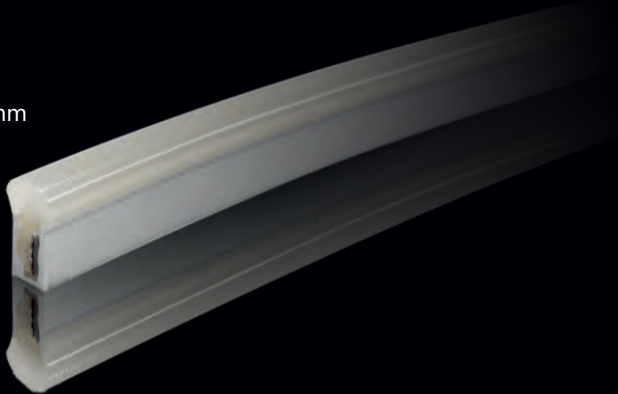
01/02

DC Input



01 02

packaging:
carton
50m/ctn
632*522*225mm
30.5kg



customized length of injection-molded light

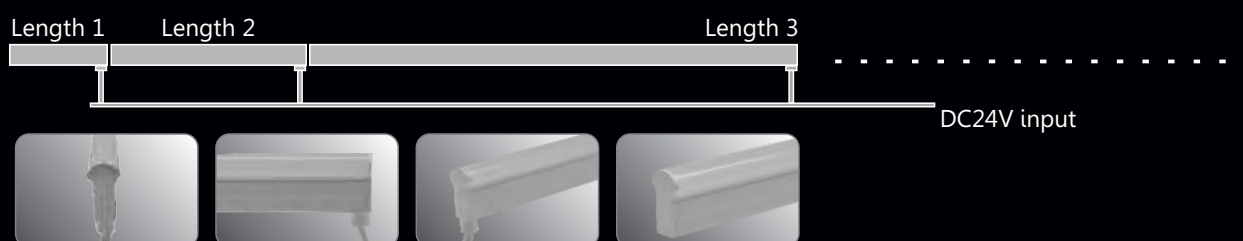
	Length 1	Length 2	Length 3	Length 4	Length 5	Length 6
Length	10cm	20cm	50cm	100cm	200cm	500cm

connection diagram for injection-molded light

side connector

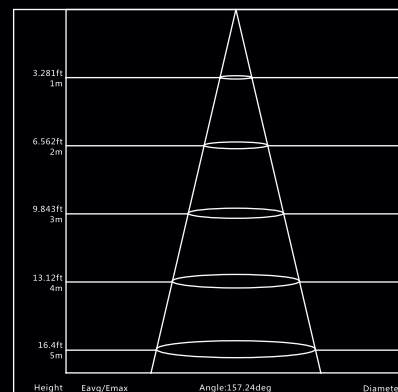
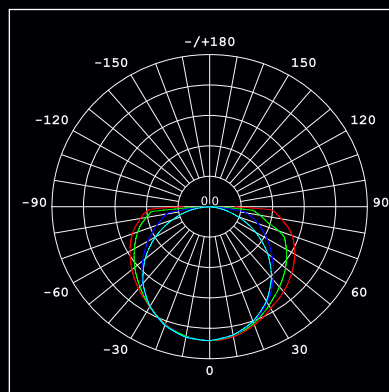


bottom connector



Photometric Data

color	item code: 11.09.S04.01.01(60/12)	CCT/wavelength	lumen/m
red		620-630nm	>22 lm
green		520-530nm	>90 lm
blue		460-470nm	>18 lm
white		--	>130 lm



item: flexible linear LED light

main feature: dome top medium, high lumen output

material: UV-ray stabilized and flame resistant PVC medium slim, dome opal top with 270° beam angle uniform light distribution (dots-free)

wide range of CCT and various LED colors

horizontally flexible white profile

bending diameter of min 120mm

continuous length up to 100m

LED: SMD (Epistar)

CRI: >80

Binning: 3 MacAdam, one bin

LED driver/DMX: remote

Volt DC: 24V CC/CV

ND - non-dimmable

PH - phase dimmable

010V - 0-10V dimmable

DALI - compatible with DALI

DMX - controlled by DMX

Areas of use:

indoors: offices, decorative areas

outdoors: signs, architectural features facade, sculptures, swimming pools, parks, etc.

Operating temperature range: -20° ~ +55°C

Storage temperature range: -20° ~ +60°C

LED Lifetime: 60,000 hrs

RoHS

ULUS LISTED

CE

TUV

IP68
IP40

IK08

5 years
warranty





Beam Angle



Bending Diameter



Flame Resistant



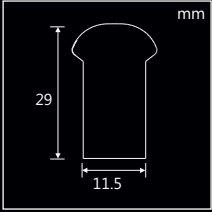
UV Resistant



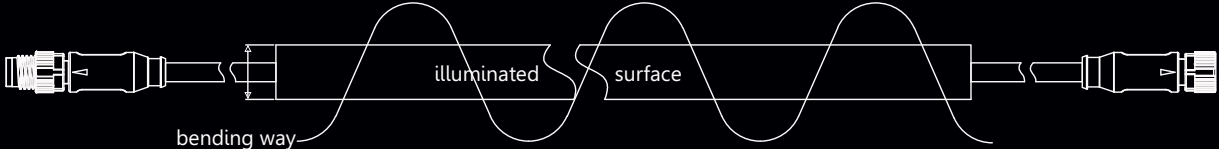
Solvents Resistant

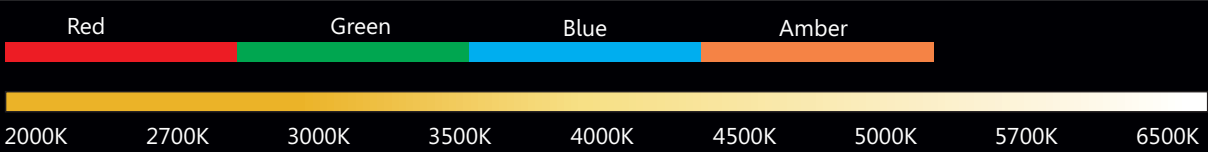


Saltwater Resistant



horizontally flexible

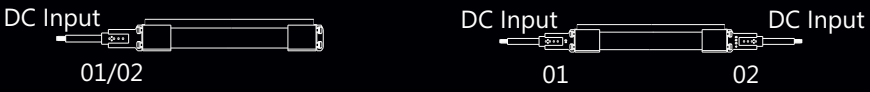




item code	11.09.S04.02.01.6.5	11.09.S04.02.02.7.2	11.09.S04.02.03.10.6	11.09.S04.02.04.12
watt	6.5W	7.2W	10.6W	12W
LED color	red/amber	red/amber	gr/bl/wh	green/blue/white
volt	24V DC	24V DC	24V DC	24V DC
LEDs/m	60 LEDs	60 LEDs	60 LEDs	60 LEDs
distance b/w LEDs	1.67cm	1.67cm	1.67cm	1.67cm
cutting unit	10 LEDs (16.7cm)	10 LEDs (16.7cm)	6 LEDs (10cm)	6 LEDs (10cm)
continuous length	15m	15m	10m	10m
IP-rating	IP68/IP40	IP68/IP40	IP68/IP40	IP68/IP40

driver	35W	60W	100W	120W	150W	150W	180W	240W	320W
max length (7.2W)	5m	7.5m	12m	15m		18.5m	22m	30W	
max length (12W)	2.5m	4.5m	7.5m	9m	10m		13.5m	18W	20m

Connection options



packaging:

carton

50m/ctn

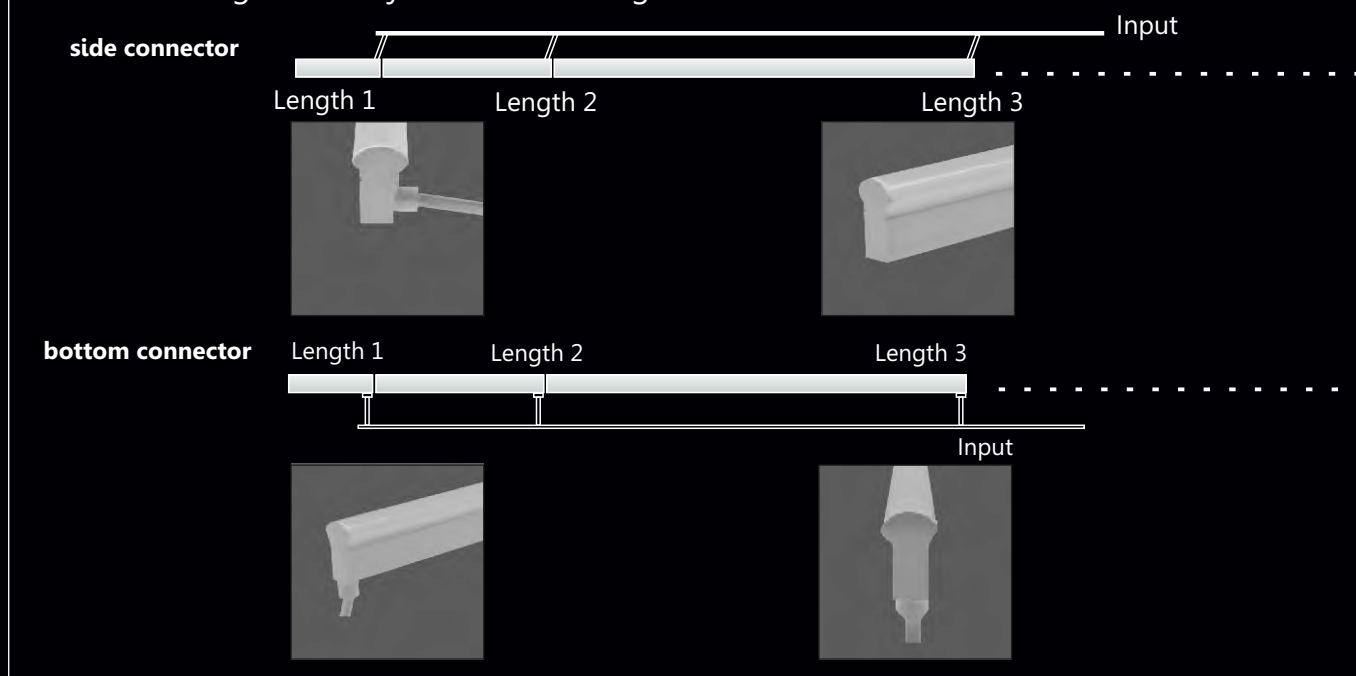
632*522*225mm

30.5kg

customized length of injection-molded light

	Length 1	Length 2	Length 3	Length 4	Length 5	Length 6	Length 6
Length (green/blue/amber)	10cm	20cm	50cm	100cm	200cm	500cm	1000cm
Length (red/amber)	16.7cm	33.4cm	50cm	100cm	200cm	500cm	1000cm

connection diagram for injection-molded light

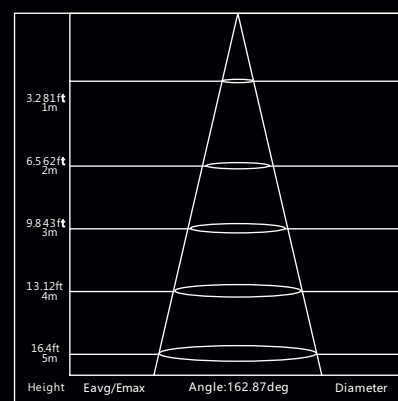
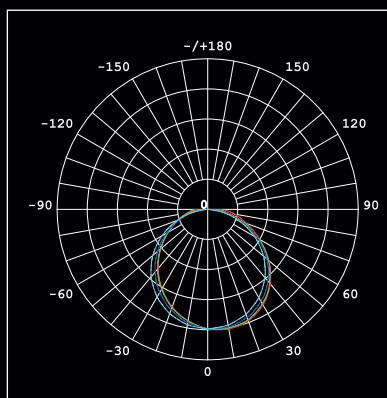


Photometric Data

	item code: 11.09.S04.02.01(60/7.2)	
color	CCT/wavelength	lumen/m
red	620-630nm	>120 lm
green	520-530nm	>280 lm
blue	460-470nm	>40 lm
amber	590-595nm	>90 lm
warm white	2725 +/- 145K	>380 lm
	3045 +/- 145K	>380 lm
white	3465 +/- 245K	>380 lm
	3985 +/- 275K	>380 lm
cool white	4503 +/- 243K	>380 lm
	5028 +/- 283K	>380 lm
daylight white	5665 +/- 355K	>380 lm

	item code: 11.09.S04.02.03(72/12)	
CCT/wavelength	lumen/m	
620-630nm	>120 lm	
520-530nm	>150 lm	
460-475nm	>26 lm	
590-595nm	>120 lm	
2725 +/- 145K	>300 lm	
3465 +/- 245K	>300 lm	
4503 +/- 243K	>300 lm	
5665 +/- 355K	>300 lm	

	item code: 11.09.S04.02.04(60/6.5)	
color	CCT/wavelength	lumen/m
red	620-630nm	>120 lm
green	520-530nm	>280 lm
blue	460-470nm	>40 lm
amber	590-595nm	>90 lm
extra low temp	2000 +/- 100K	>280 lm
	2200 +/- 100K	>280 lm
	2400 +/- 100K	>280 lm
warm white	2725 +/- 145K	>380 lm
	3045 +/- 145K	>380 lm
white	3465 +/- 245K	>380 lm
	3985 +/- 275K	>380 lm
cool white	4503 +/- 243K	>380 lm
	5028 +/- 283K	>380 lm
daylight white	5665 +/- 355K	>380 lm



Note:

*IES files available on request

item: flexible linear LED light

main feature: colored top and profile, dome medium

material: UV-ray stabilized and flame resistant PVC
medium slim, dome colored top diffusing 270° beam angle
uniform light distribution (dots-free)

horizontally flexible **colored profile:**

red, green, blue, yellow

bending diameter of min 120mm

various continuous length options: 10m/15m/80m

LED: SMD (Epistar)

CRI: >80

Binning: 3 MacAdam, one bin

LED driver/DMX: remote

Volt DC: 24V CC/CV

ND - non-dimmable

PH - phase dimmable

010V - 0-10V dimmable

DALI - compatible with DALI

DMX - controlled by DMX

Areas of use:

indoors: offices, decorative areas

outdoors: signs, architectural features
facade, sculptures, swimming pools, parks, etc.

Operating temperature range: -20° ~ +55°C

Storage temperature range: -20° ~ +60°C

LED Lifetime: 60,000 hrs



Beam
Angle



Bending
Diameter



Flame
Resistant



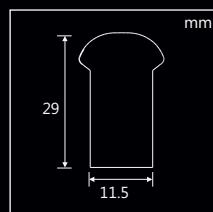
UV
Resistant



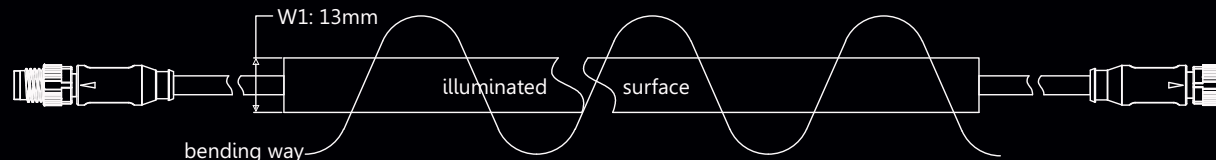
Solvents
Resistant



Saltwater
Resistant



horizontally flexible



Red

Green

Blue

Yellow1

Yellow2

Yellow3

item code

watt
LED color
volt
LEDs/m
distance b/w LEDs
cutting unit
continuous length
IP-rating

11.09.S04.03.01.6.5

6.5W
red
24V DC
60 LEDs
1.67cm
10 LEDs (16.7 cm)
15m
IP68/IP40

11.09.S04.03.02.10.6

10.6W
green/blue/yellow
24V DC
60 LEDs
1.67 cm
6 LEDs (10 cm)
10 m
IP68/IP40

11.09.S04.03.03.12

12W
red/green/blue/yellow
230V AC
72 LEDs
1.39cm
72 LEDs (1 m)
80 m
IP65/IP40

length

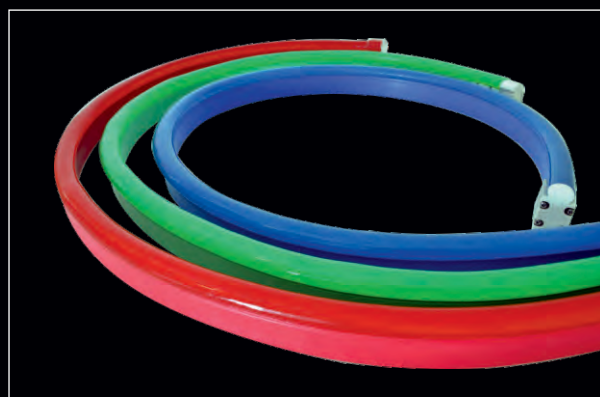
(red/green/yellow)

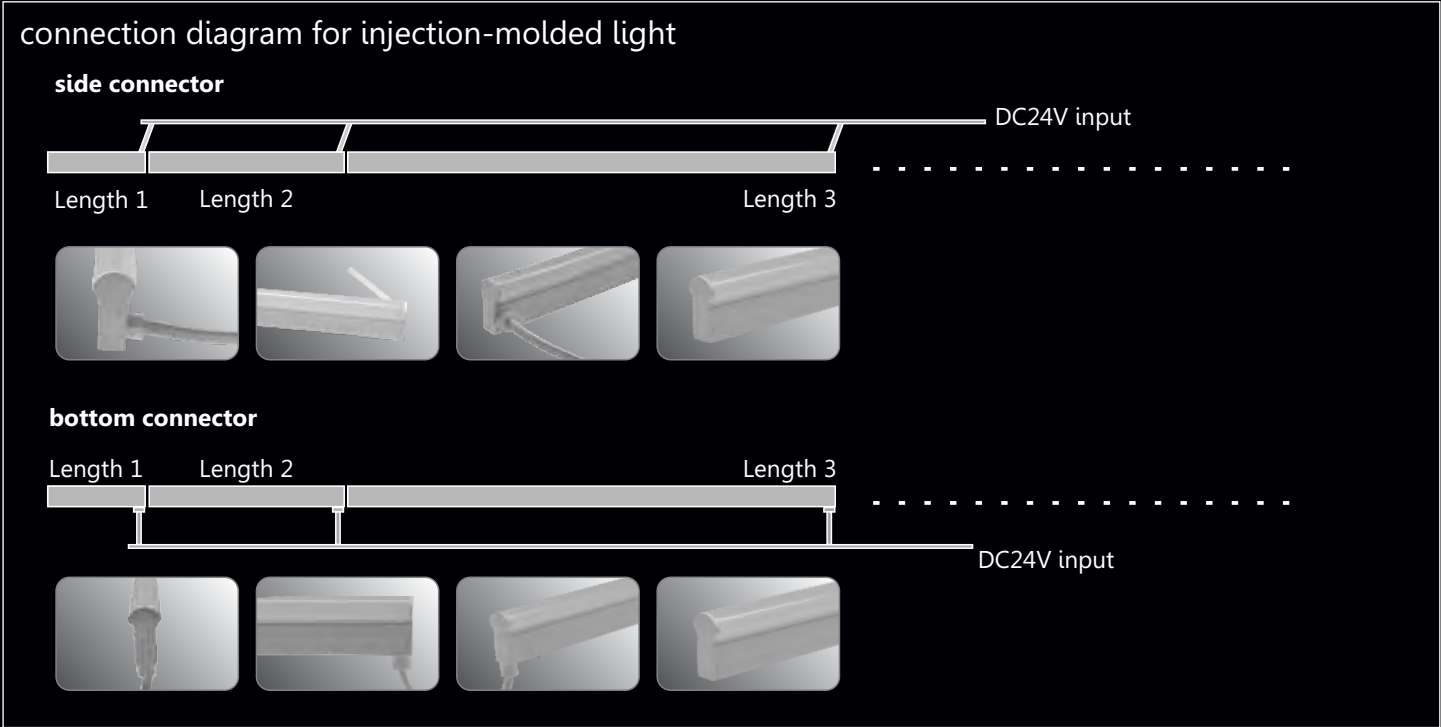
length

(red)

Length 1	Length 2	Length 3	Length 4	Length 5	Length 6	Length 7
10 cm	20 cm	50 cm	100 cm	200 cm	500 cm	1000 cm
16.67 cm	33.34 cm	50 cm	100 cm	200 cm	500 cm	1000 cm

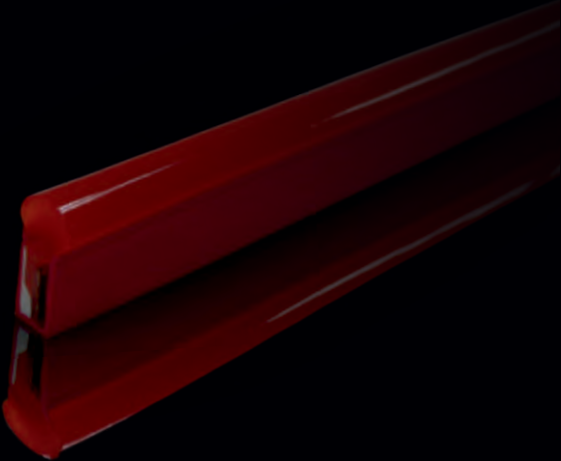
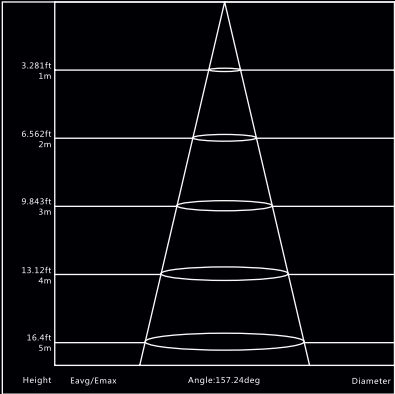
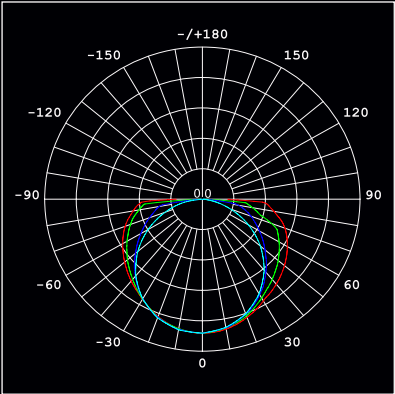
packaging:
carton
50m/ctn
632*522*225mm
30.5kg





Photometric Data

	item code: 11.09.S04.03.03(72/12)		item code: 11.09.S04.03.01(60/6.5)	
color	CCT/wavelength	lumen/m	CCT/wavelength	lumen/m
red	620-630nm	> 50 lm	620-630nm	> 100 lm
green	520-530nm	> 135 lm	520-530nm	> 185 lm
blue	460-470nm	> 10 lm	460-470nm	> 15 lm
Yellow1	574 +/- 1.5K	> 210 lm	574 +/- 1.5nm	> 275 lm
Yellow2	578 +/- 1.5K	> 210 lm	578 +/- 1.5nm	> 275 lm
Yellow3	582 +/- 1.5K	> 210 lm	582 +/- 1.5nm	> 275 lm



item: flexible linear LED light

main features: colored top, white profile, dome top medium

material: UV-rays stabilized and flame resistant PVC

medium slim, dome colored top diffusing 270° beam angle

uniform light distribution (dots-free)

red, green, blue, yellow

horizontally flexible white profile

bending diameter of min 120mm

continuous length up to 100m

LED: SMD (Epistar)

CRI: >80

Binning: 3 MacAdam, one bin

LED driver/DMX: remote

Volt DC: 24V CC/CV

ND - non-dimmable

PH - phase dimmable

010V - 0-10V dimmable

DALI - compatible with DALI

DMX - controlled by DMX

Application:

indoors: offices, decorative areas

outdoors: signs, architectural features

facade, sculptures, swimming pools, parks, etc.

Operating temperature range: -20° ~ +55°C

Storage temperature: -20° ~ +60°C

LED Lifetime: 60,000 hrs

RoHS

ULUS LISTED

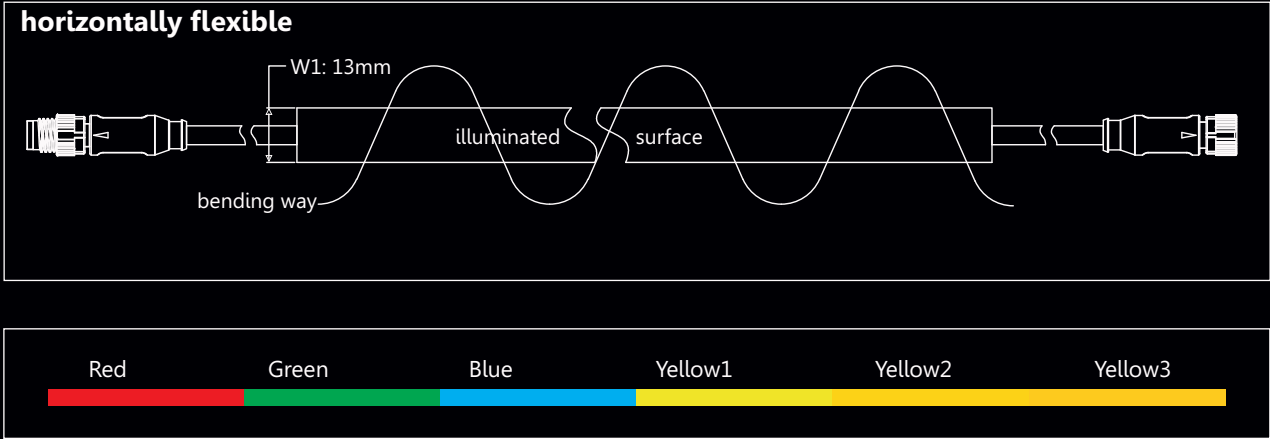
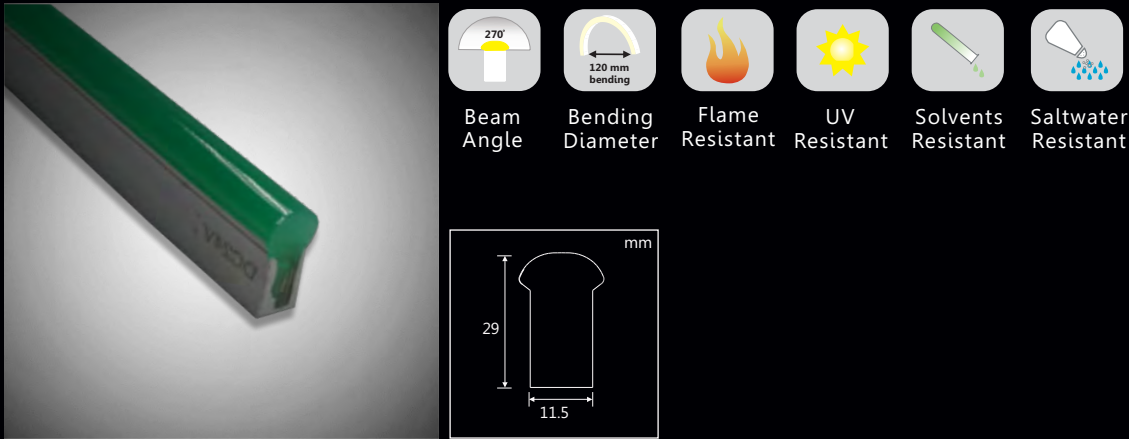
CE

TUV

IP40
IP68

IK08

5 years warranty



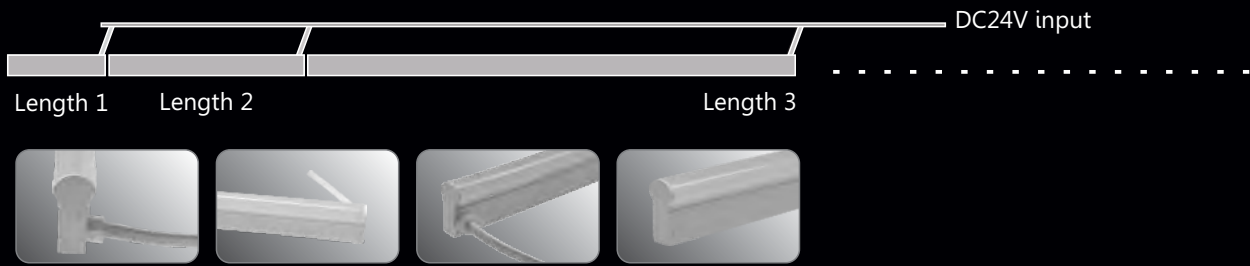
item code	11.09.S04.04.01.6.5	11.09.S04.04.02.10.6	11.09.S04.04.03.12
watt	6.5W	10.6W	12W
color	red	green/blue/yellow	red/green/blue/yellow
volt	24V DC	24V DC	230V AC
LEDs/m	60 LEDs	60 LEDs	72 LEDs
distance b/w LEDs	1.67cm	1.67 cm	1.39cm
cutting unit	10 LEDs (16.7 cm)	6 LEDs (10 cm)	72 LEDs (1 m)
continuous length	15m	10 m	80 m
IP-rating	IP68/IP40	IP68/IP40	IP65/IP40

	Length 1	Length 2	Length 3	Length 4	Length 5	Length 6	Length 7
length (Red/Green/Yellow)	10 cm	20 cm	50 cm	100 cm	200 cm	500 cm	1000 cm
length (Red)	16.67 cm	33.34 cm	50 cm	100 cm	200 cm	500 cm	1000 cm

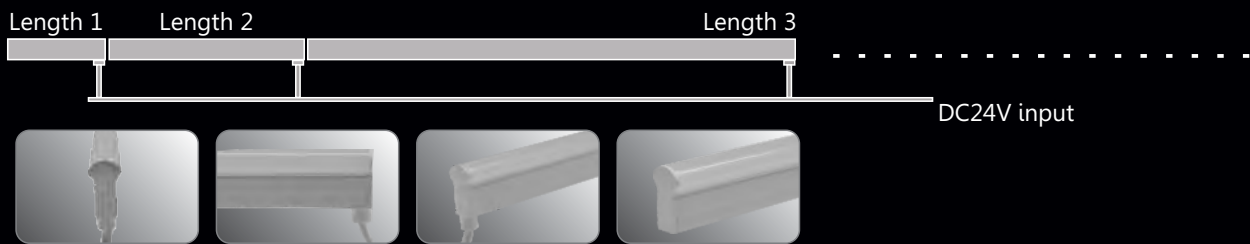


connection diagram for injection-molded light

side connector

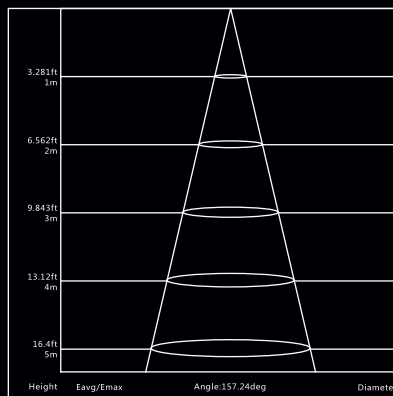
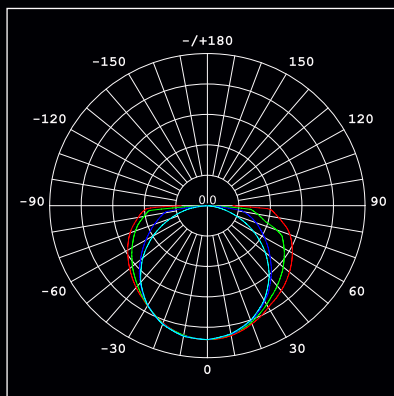


bottom connector



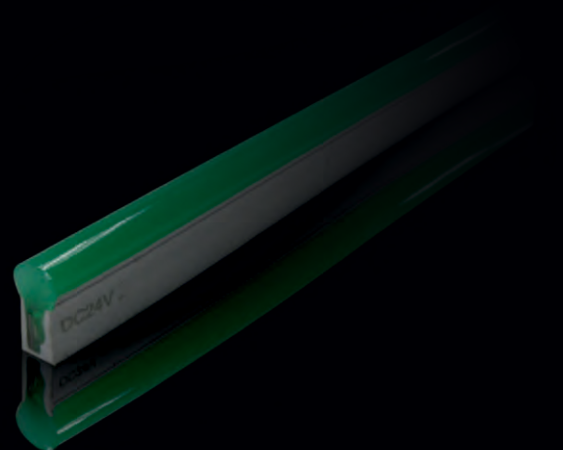
Photometric Data

	item code: 11.09.S04.04.03.12		item code: 11.09.S04.04.01.6.5	
color	CCT/wavelength	lumen/m	CCT/wavelength	lumen/m
red	620-630nm	>50 lm	620-630nm	>100 lm
green	520-530nm	>135 lm	520-530nm	>185 lm
blue	468-478nm	>10 lm	460-470nm	>15 lm
Yellow1	574 +/- 1.5K	>210 lm	574 +/- 1.5nm	>275 lm
Yellow2	578 +/- 1.5K	>210 lm	578 +/- 1.5nm	>275 lm
Yellow3	582 +/- 1.5K	>210 lm	582 +/- 1.5nm	>275 lm



Notes:

- * mention color of LED in code when ordering
- * custom length and wattage options available on request
- * power of LED driver should be 20% higher than power of the product
- * wattage data of products is (+/-) 10%
- * power consumption tolerance is (+/-) 1W
- * CCT data is given with an accuracy of (+/-) 100K
- * Luminous flux tolerance is (+/-) 10%



item: flexible linear LED light

main features: programmable, dome top medium

material: UV-rays stabilized and flame resistant PVC
medium slim, dome opal top diffusing 270° beam angle
uniform light distribution (dots-free)

white/RGB chasing effect

horizontally flexible white profile

bending diameter of min 120mm

continuous length up to 15m

Effects:

- chasing
- flowing
- flashing
- gradual changing
- fade-in/fade-out
- meteor shower
- skipper effect

Application:

indoors: offices, decorative areas

outdoors: signs, architectural features

facade, sculptures, swimming pools, parks, etc.

Operating temperature range: -20° ~ +55°C

Storage temperature: -20° ~ +60°C

LED Lifetime: 60,000 hrs



Beam
Angle



Bending
Diameter



Flame
Resistant



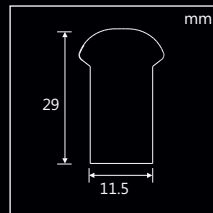
UV
Resistant



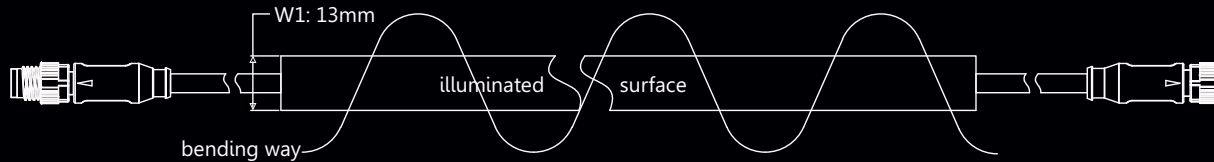
Solvents
Resistant



Saltwater
Resistant



horizontally flexible



Single Color Chasing

RGB Chasing

item code

11.09.S04.05.01.7.2

watt

7.2W

LED color

RGB/ single color

volt

24V DC

LEDs/m

56 LEDs

distance b/w LEDs

1.79cm

cutting unit

7 LEDs (12.5 cm)

continuous length

15 m

IP-rating

IP68/IP40

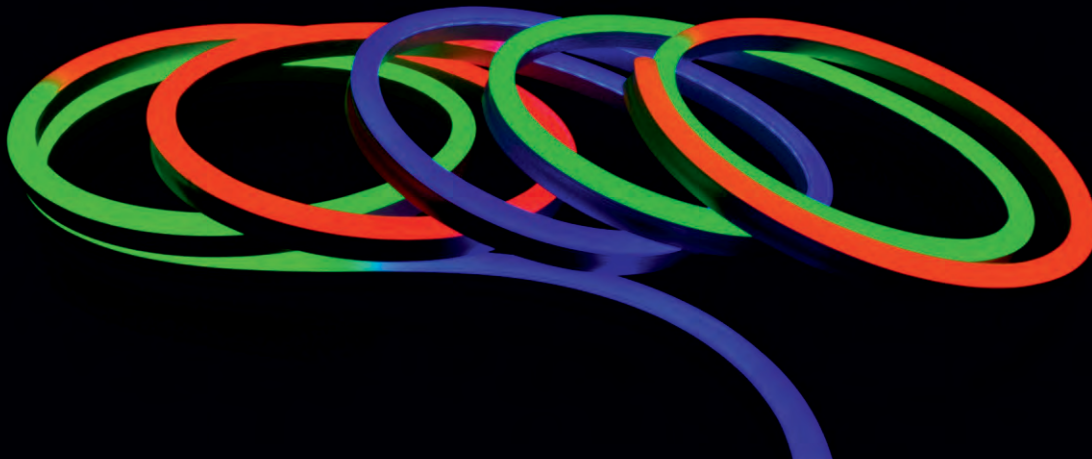
packaging:

carton

50m/ctn

632*522*225mm

30.5kg



Ranges of S04.01/S04.02/S04.05

Sleeve Front Connector



Sleeve End Cap



Sleeve Jumper



IP40

Clasp Front Connector



Clasp End Cap



Injection-moulded Front Connector (side)



Injection-moulded Front Connector (bottom)



IP68

Screw Front Connector



Screw End Cap



Screw Jumper



IP68

Range of S04.03

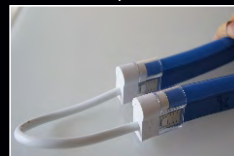
Sleeve Front Connector



Sleeve End Cap



Sleeve Jumper



IP40

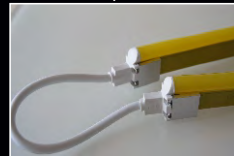
Screw Front Connector



Screw End Cap



Screw Jumper



IP68

Clasp Front Connector



Clasp End Cap



Injection-moulded Front Connector (side)



Injection-moulded Front Connector (bottom)



IP68

Range of S04.04

Sleeve Front Connector



Sleeve End Cap



Sleeve Jumper



IP40

Screw Front Connector



Screw End Cap



Screw Jumper



IP68

Clasp Front Connector



Clasp End Cap



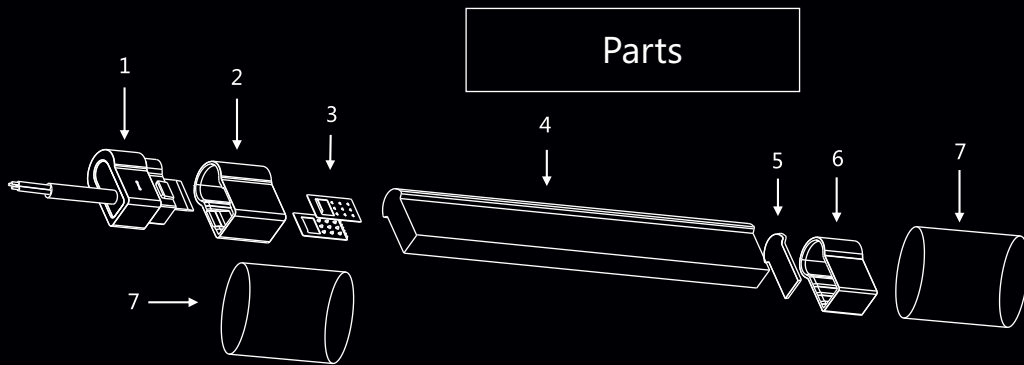
Injection-moulded Front Connector (side)



Injection-moulded Front Connector (bottom)



IP68



1. end cap with front connector
2. sleeve
3. anti-skidding clip
4. linear light
5. shading sheet
6. end cap
7. heat shrinkable sleeve



1. end cap with front connector



2. sleeve



3. anti-skidding clip



4. linear light



5. shading sheet



6. end cap



7. heat shrinkable sleeve

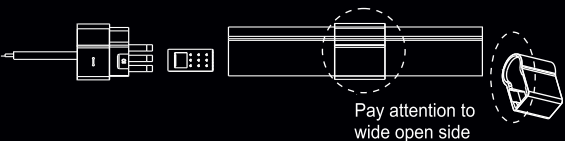
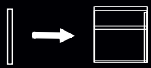
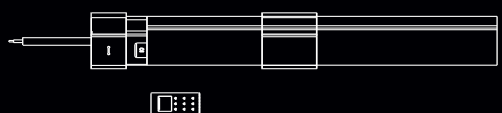
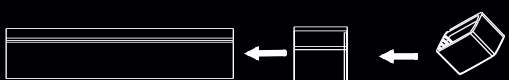
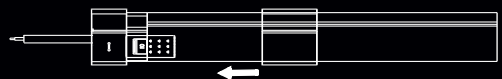
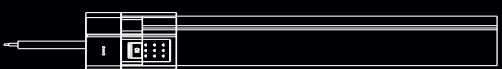
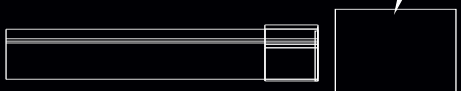
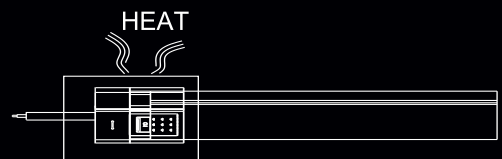
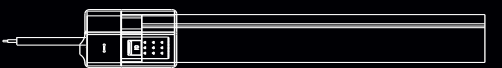
Sleeve with Front Connector



Sleeve with End Cap , silicone and heat-shrinkable Sleeve



IP40

Sleeve Front Connector Installation Steps	Sleeve End Cap Installation Steps
① 	① 
② 	② 
③ 	③ 
④ 	④ 
⑤ 	⑤ 
⑥ 	⑥ 
⑦ 	
⑧ 	

IP68

Parts

1. end cap with front connector

2. anti-skidding clip

3. mounting piece

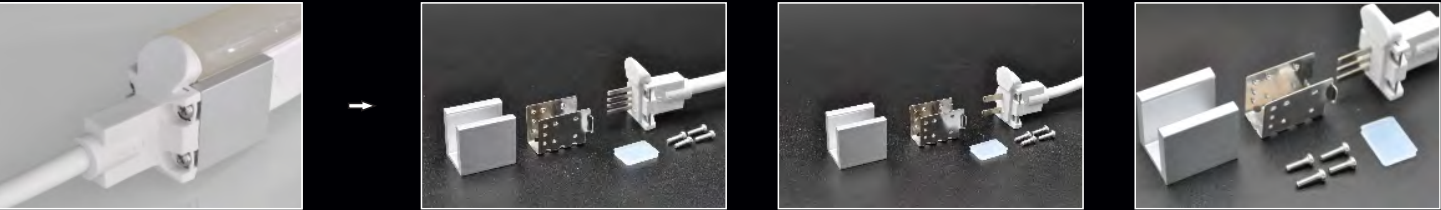
4. linear light

5. silicone gasket

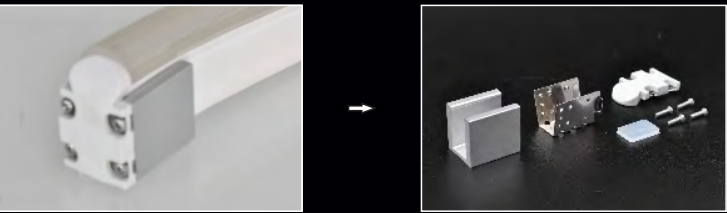
6. screw

7. end cap

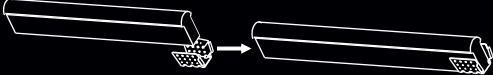
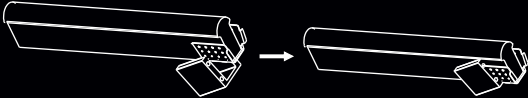
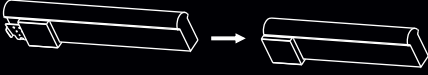
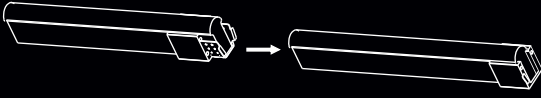
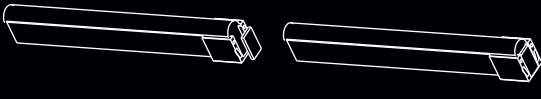
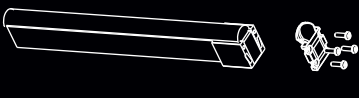
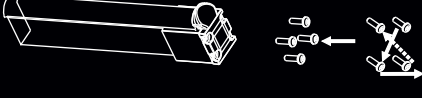
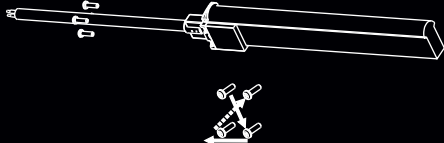
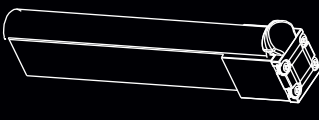
Front Connector with screws, aluminum mounting clip, anti-skidding clip, silicone gasket



End Cap with screws, aluminum mounting clip, anti-skidding clip, silicone gasket

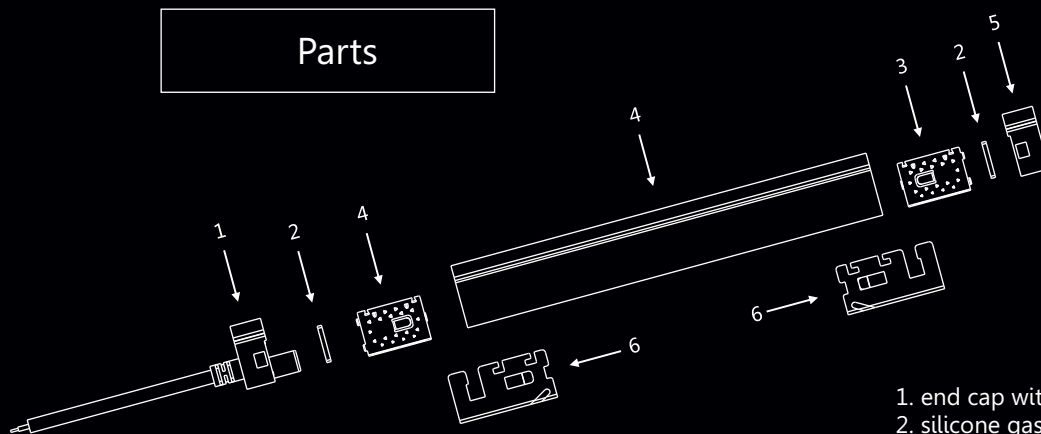


IP68

Screw Front Connector Installation Steps	Screw End Cap Installation Steps
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	

Parts

IP68



1. end cap with front connector
2. silicone gasket
3. anti-skidding clip
4. linear light
5. end cap
6. steel clasp



1. end cap with front connector



2. silicone gasket



3. anti-skidding clip



4. linear light

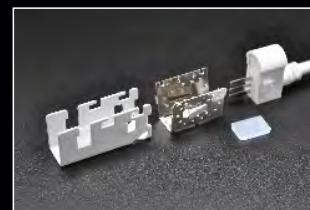
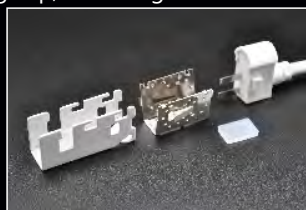
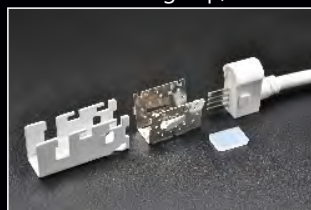


5. end cap



6. steel clasp

Front Connector with screws, aluminum mounting clip, anti-skidding clip, silicone gasket



End Cap with screws, aluminum mounting clip, anti-skidding clip, silicone gasket



IP68

Clasp Front Connector Installation Steps	Clasp End Cap Installation Steps
①	①
②	②
③	③
④	④
⑤	⑤
⑥ ← Push in using gripper	⑥ Push in using gripper →
⑦	⑦

ELTE

flat side large, super-high lumen output



item: flexible linear LED light

main features: flat side large, super-high lumen output

material: UV-rays stabilized and flame resistant PVC medium slim, flat opal side diffusing 160° beam angle uniform light distribution (dots-free)

vertically flexible white profile

bending diameter of min 300mm

continuous length up to 15m

LED: SMD (Epistar)

CRI: >80

Binning: 3 MacAdam, one bin

LED driver/DMX: remote

Volt DC: 24V CC/CV

ND - non-dimmable

PH - phase dimmable

010V - 0-10V dimmable

DALI - compatible with DALI

DMX - controlled by DMX

Application:

indoors: offices, decorative areas

outdoors: signs, architectural features

facade, sculptures, swimming pools, parks, etc.

Operating temperature range: -20° ~ +55°C

Storage temperature: -20° ~ +60°C

LED Lifetime: 60,000 hrs

RoHS

UL US LISTED

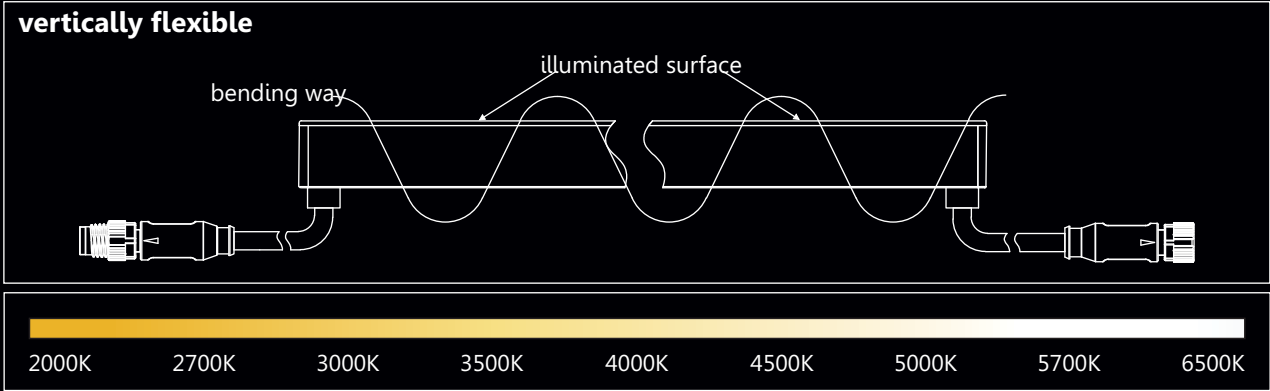
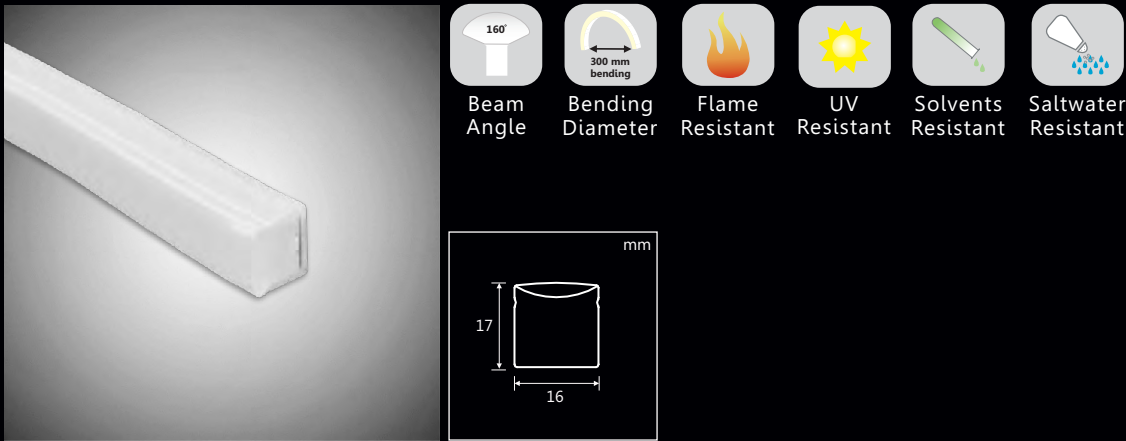
CE

TUV

IP68

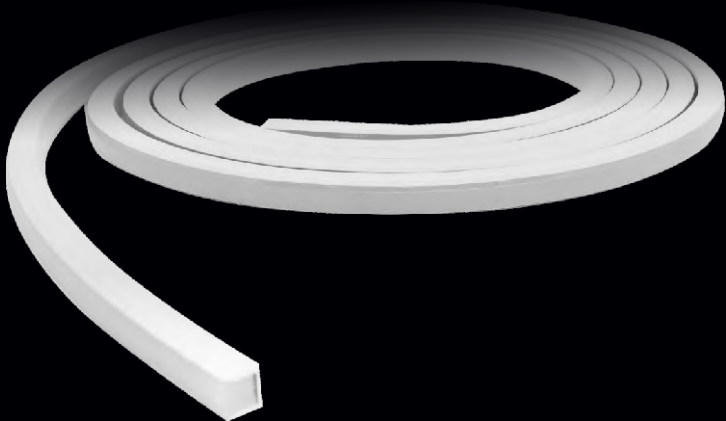
IK08

5 years warranty



item code	11.09.S05.01.01.7.2	11.09.S05.01.02.10.5
watt	7.2W	10.5W
LED color	red/amber	green/blue/white
volt	24V DC	24V DC
LEDs/m	108 LEDs	108 LEDs
Distance b/w LEDs	0.926 cm	0.926 cm
Cutting unit	9 LEDs (8.33 cm)	6 LEDs (5.6 cm)
continuous length	15 m	10 m
IP-rating	IP68	IP68

	Length 1	Length 2	Length 3	Length 4	Length 5	Length 6	Length 7
length (Red/Green/Yellow)	10 cm	20 cm	50 cm	100 cm	200 cm	500 cm	1000 cm
length (Red)	16.67 cm	33.34 cm	50 cm	100 cm	200 cm	500 cm	1000 cm



packaging:
carton
50m/ctn
697*582*168mm
21.65kg

customized length of injection-molded light

	Length 1	Length 2	Length 3	Length 4	Length 5	Length 6
Length	10cm	20cm	50cm	100cm	200cm	500cm

connection diagram for injection-molded light

Length 1

Length 2

Length 3

.....

DC24V input





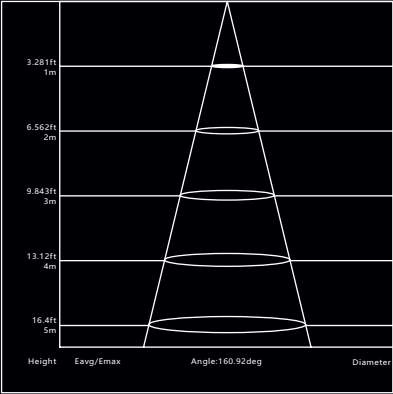
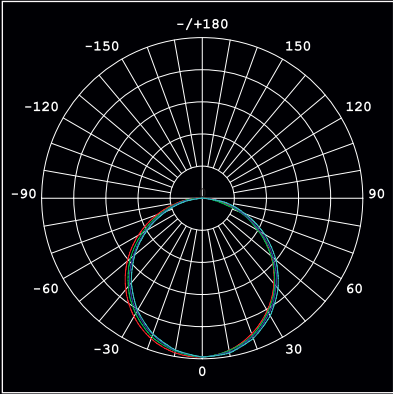




bottom connector

Photometric Data

color	item code: 11.09.S05.01.02.10.5	CCT/wavelength	lumen/m
red		620-630nm	>180 lm
green		520-530nm	>360 lm
blue		460-470nm	>50 lm
Yellow		2725 +/- 145K	>160 lm
warm white		3465 +/- 245K	>450 lm
cool white		4503 +/- 243K	>450 lm
daylight white		5665 +/- 355K	>450 lm



Note:
*IES files available on request

Accessories

clasp front connector
(FR.CNCT)



clasp end cap
(END CAP)



injection-molded
front connector



injection-molded end cap



Optional accessories

power cable for
seamless connection



middle connector for
seamless connection



male and female
connectors



Installation Accessories

aluminum profile
(AL.CH.RIG)



self-locking
aluminum profile
(AL.CH.RIG+SLF.LCK)



Tools (additional tools to order on necessity)

cutter



gripper



insert inducer

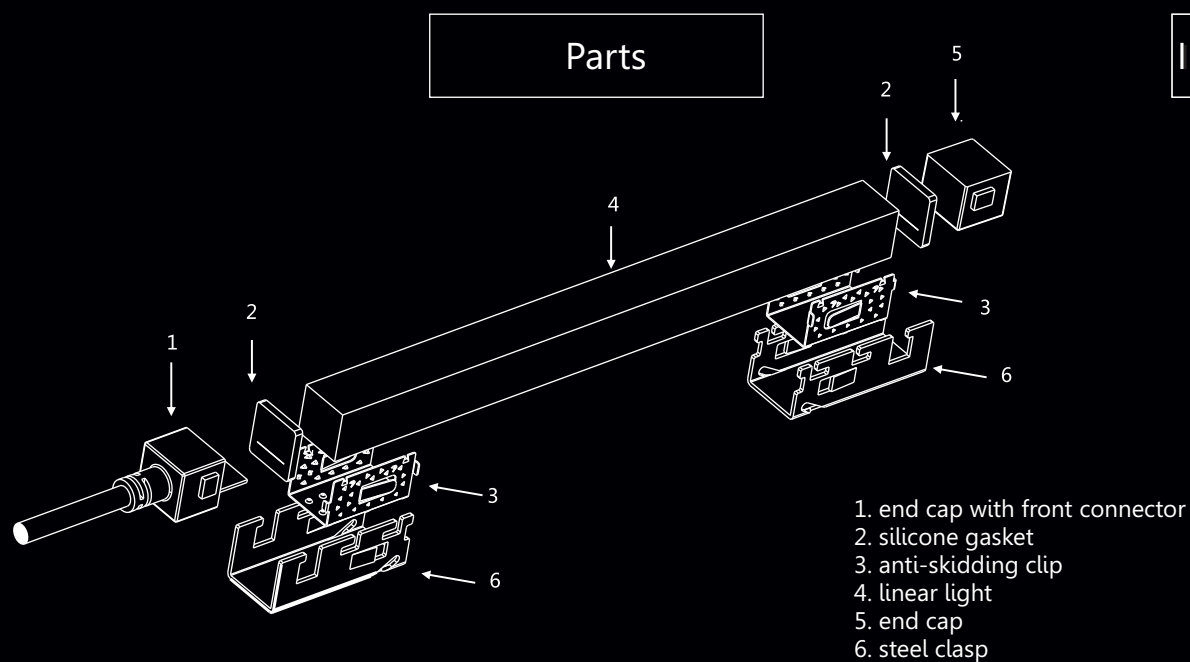


Drivers



Note:

* Power, type (dim/non-dim) and IP of drivers to be discussed as per requirement



1. end cap with front connector



2. silicone gasket



3. anti-skidding clip



4. linear light

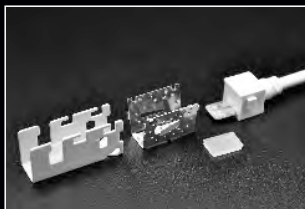


5. end cap



6. steel clasp

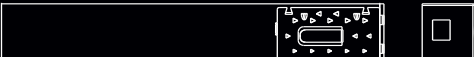
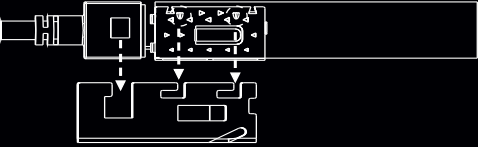
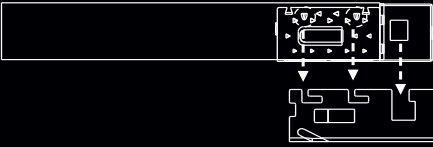
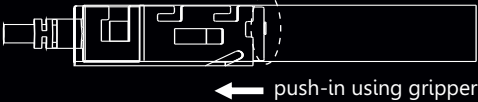
Front Connector with clasp, anti-skidding clip, silicone

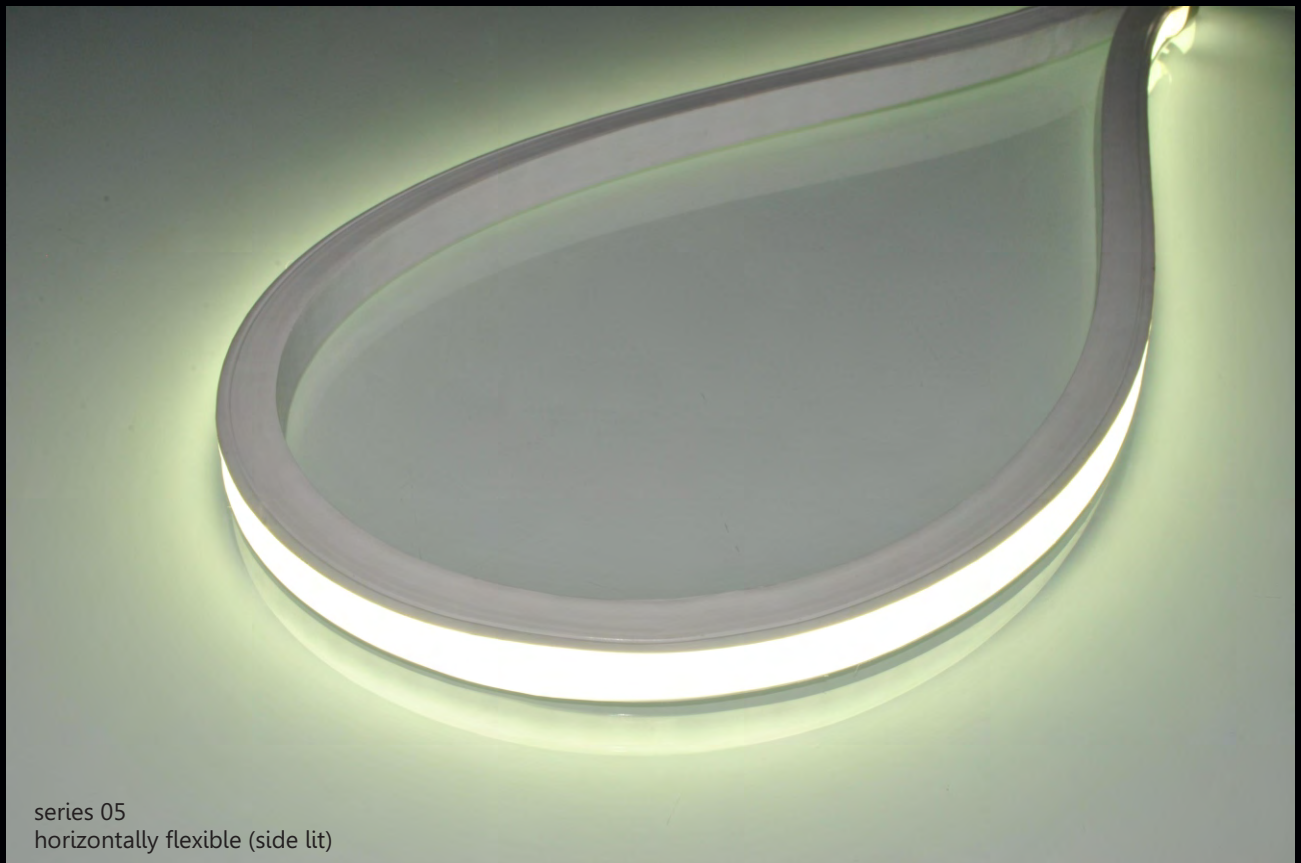


End Cap with clasp, anti-skidding clip, silicone



IP68

Clasp Front Connector Installation Steps	Clasp End Cap Installation Steps
1	8
2	9
3	10
4	11
5	12
6 ← push-in using gripper	13 push-in using gripper →
7	14



series 05
horizontally flexible (side lit)

ELTE

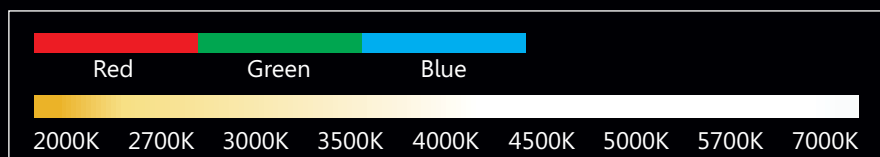
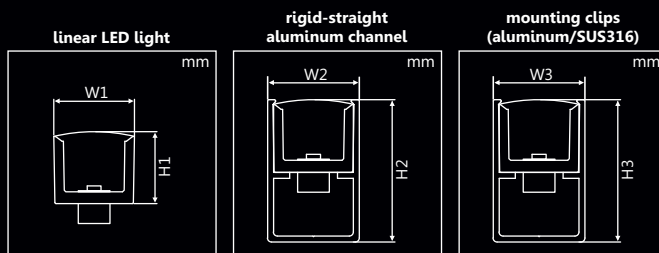
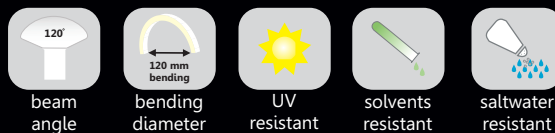
flat range horizontally/vertically flexible



Item: flexible linear LED light
material: UV-rays stabilized encapsulated polyurethane, resin surface treated, corrosion-resistant/waterproof
 flat side/top, 120° beam angle
 uniform light distribution (dots-free)
 wide range of CCT and RGB LED
 bending diameter min 120mm
mounting options: - aluminum channels:
 rigid straight (**AL.CH.RIG**) / flexible (**AL.CH.FLX**)
 - stainless steel clip bracket 1.4401/SUS316 (**BCK.SLS**)

LED: SMD (Epistar/Osram/Nichia)
CRI: >80
Binning: 3 MacAdam, one bin
LED driver/DMX: remote
Volt DC: 24V CC/CV
 ND - non-dimmable
 PH - phase dimmable
 010V - 0-10V dimmable
 DALI - compatible with DALI
 DMX - controlled by DMX

Application:
 indoors: offices, decorative areas
 outdoors: signs, architectural features
 facade, sculptures, swimming pools, parks, etc.
Operating temperature range: -30° ~ +65°C
Storage temperature range: -30° ~ +75°C
LED Lifetime: 60,000 hrs



LED color options:
 - white (2000-7000K)
 - single fixed various colors (WH/R/G/B)
 - RGB color changing
 - custom LED colors are available
 - custom color filtering is available

horizontally flexible ("side view")

Type: 11.43.S06.01
Material: industrial resin
Dimensions, mm:
 Linear light: W1-13 x H1-20
 Maximum continuous length: 3m
 Light with straight rigid aluminum profile: W2-16 x H2-40
 Light with flexible aluminum profile: W3-16 x H3-43

Ref Code	Watt/m	Lm/m	LEDs/m	SMD	Cut Unit,mm	LED color	Control
11.43.S06.01.01.05	5W	300	96	2835	62.5	single fixed	on/off
11.43.S06.01.02.08	8W	480	96	2835	62.5	single fixed	on/off
11.43.S06.01.03.14.4	14.4W	864	120	2835	50	single fixed	on/off
11.43.S06.01.04.7.2	7.2W	432	72	2835	250	single fixed	12-chn DMX/12 pix
11.43.S06.01.05.17.28	17.28W	-	72	3535	250	RGB	36-chn DMX/12 pix
11.43.S06.01.06.12	12W	668	96	2835	62.5	single fixed	on/off
11.43.S06.01.07.14.4	14.4W	-	60	5050	100	RGB	on/off



Type: 11.44.S06.02
Material: encapsulated polyurethane
Dimensions, mm:
 Linear light: W1-16 x H1-15
 Maximum continuous length: 4m
Note: * there is no flexible aluminum channel for this item

Ref Code	Watt/m	Lm/m	LEDs/m	SMD	Cut Unit,mm	LED color	Control
11.44.S06.02.01.10	10W	880	140	3014	50	single fixed	on/off
11.44.S06.02.02.10	10W	-	70	5050	100	RGB	on/off



Ordering Guide:
 11.43.S06.02.01.05+CT35+ND+AL.CH.FLX (or BCK.SLS)
 (item code+CCT+non-dim+aluminum flexible profile (or stainless steel clips))

horizontally flexible ("side view")

Type: 11.43.S06.07

Material: industrial resin

Dimensions, mm:

Linear light: W1-10 x H1-12.5

Maximum continuous length: 3m

Note: * there is no flexible aluminum channel for this item

Ref Code	Watt/m	Lm/m	LEDs/m	SMD	Cut Unit,mm	LED color	Control
11.43.S06.07.01.05	5W	339	96	2835	62.5	single fixed	on/off
11.43.S06.07.02.08	8W	400	96	2835	62.5	single fixed	on/off
11.43.S06.07.03.10	10W	720	96	2835	62.5	single fixed	on/off



vertically flexible ("top view")

Type: 11.44.S06.03

Material: encapsulated polyurethane

Dimensions, mm:

Linear light: W1-10 x H1-10

Maximum continuous length: 5m

Note: * there is no flexible aluminum channel for this item

Ref Code	Watt/m	Lm/m	LEDs/m	SMD	Cut Unit,mm	LED color	Control
11.44.S06.03.01.10	10W	900	144	3014	42	single fixed	on/off
11.44.S06.03.02.10	10W	-	72	5050	83	RGB	on/off 1-ch DMX/12 pix 36-ch DMX/12 pix



Type: 11.44.S06.04

Material: encapsulated polyurethane

Dimensions, mm:

Linear light: W1-20 x H1-12

Maximum continuous length: 4m

Note: * there is no flexible aluminum channel for this item

Ref Code	Watt/m	Lm/m	LEDs/m	SMD	Cut Unit,mm	LED color	Control
11.44.S06.04.01.10	10W	500	140	3014	50	single fixed	on/off
11.44.S06.04.02.10	10W	-	70	5050	100	RGB	on/off 1-ch DMX/12 pix 36-ch DMX/12 pix



Type: 11.43.S06.05

Material: industrial resin

Dimensions, mm:

Linear light: W1-16 x H18

Maximum continuous length: 3m (custom length of 4m is possible on request)

Light with straight rigid aluminum profile: W2-17 x H2-32

Light with flexible aluminum profile: W3-18 x H3-37

Ref Code	Watt/m	Lm/m	LEDs/m	SMD	Cut Unit,mm	LED color	Control
11.43.S06.05.01.05	5W	300	96	2835	62.5	single fixed	on/off
11.43.S06.05.02.08	8W	480	96	2835	62.5	single fixed	on/off
11.43.S06.05.03.14.4	14.4W	864	72	2835	50	single fixed	on/off
11.43.S06.05.04.7.2	7.2W	432	96	2835	250	single fixed	12-chn DMX/12 pix
11.43.S06.05.05.14.4	14.4W	-	60	5050	100	RGB	on/off
11.43.S06.05.06.17.3	17.3W	-	72	3535	250	RGB	36-chn DMX/12 pix
11.43.S06.05.07.15.3	15.3W	416	120	2835	50	turquoise	on/off
11.43.S06.05.08.16.4	16.4W	1530	120	2835	50	single fixed	on/off
11.43.S06.05.09.12	12W	750	96	2835	62.5	single fixed	on/off



Type: 11.43.S06.06

Material: industrial resin

Dimensions, mm:

Linear light: W1-20 x H18

Maximum continuous length: 3m

Light with straight rigid aluminum profile: W2-23 x H2-36

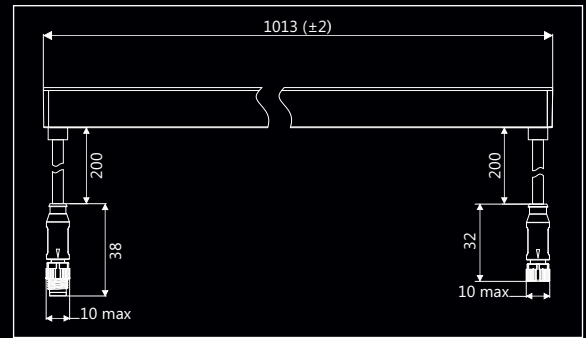
Light with flexible aluminum profile: W3-23 x H3-37

Ref Code	Watt/m	Lm/m	LEDs/m	SMD	Cut Unit,mm	LED color	Control
11.43.S06.06.01.05	5W	300	96	2835	62.5	single fixed	on/off
11.43.S06.06.02.08	8W	480	96	2835	62.5	single fixed	on/off
11.43.S06.06.03.14.4	14.4W	864	72	2835	50	single fixed	on/off
11.43.S06.06.04.7.2	7.2W	432	60	2835	250	single fixed	12-chn DMX/12 pix
11.43.S06.06.05.14.4	14.4W	-	72	5050	100	RGB	on/off
11.43.S06.06.06.17.3	17.3W	-	-	3535	250	RGB	36-chn DMX/12 pix
11.43.S06.06.07.12	12W	750	96	2835	62.5	single fixed	on/off
11.43.S06.06.08.19.2	19.2W	-	72	2835+3535	83.3	RGBW	DMX/SPI



Notes:

- * Lm data given is based on white color CCT3000k
- * mention color of LED in code when ordering
- * custom length and wattage options available on request
- * max length is 8 meters for series connection
- * power of LED driver should be 20% higher than power of the product
- * power consumption data of products is (+/-) 10%
- * power consumption tolerance is (+/-) 1W
- * CCT data is given with an accuracy of (+/-) 100K
- * Luminous flux tolerance is (+/-) 10%
- * Mention according coding for flexible or rigid aluminum channels with according width (W1), **example:**
AL.CH.FLX.13/16/20 - flexible channel for 13mm width (W1)
AL.CH.RIG.10/13/16/20 - straight rigid channel for 20mm width (W1)



LED drivers' options:

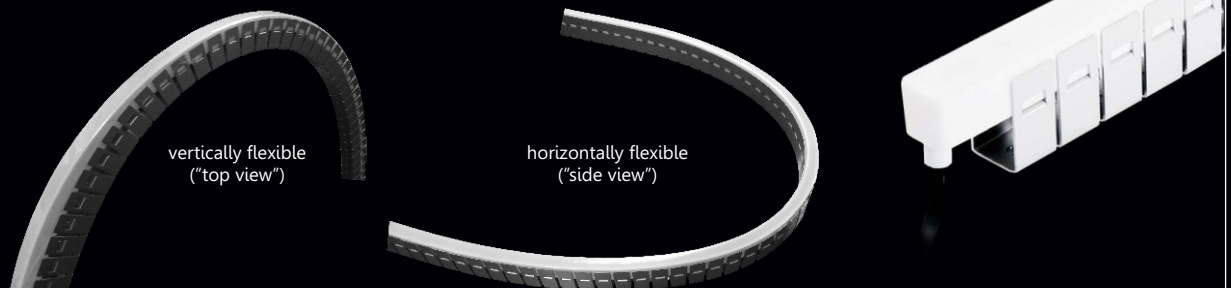
- 100W, non-dimmable, 24V DC (CV), IP67, Mean Well (HLG-100H-24)
- 150W, non-dimmable, 24V DC (CV), IP67, Mean Well (HLG-150H-24)
- 320W, non-dimmable, 24V DC (CV), IP67, Mean Well (HLG-320H-24)
- 100W, 1-10V dimmable, 24V DC (CC+CV), IP67, Mean Well (HLG-100H-24B)
- 150W, 1-10V dimmable, 24V DC (CC+CV), IP67, Mean Well (HLG-150H-24B)
- 320W, 1-10V dimmable, 24V DC (CC+CV), IP67, Mean Well (HLG-320H-24B)

RGB driver's options:

- DMX-SPI Signal Decoder LTECH (LT-DMX-1809)
- DMX Signal Amplifier LTECH (LT-123)
- DMX Controller LTECH (LT-600)

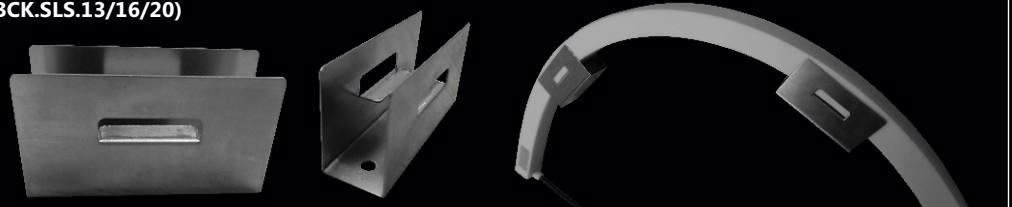


**flexible aluminum channel options
(AL.CH.FLX.13/16/20)**

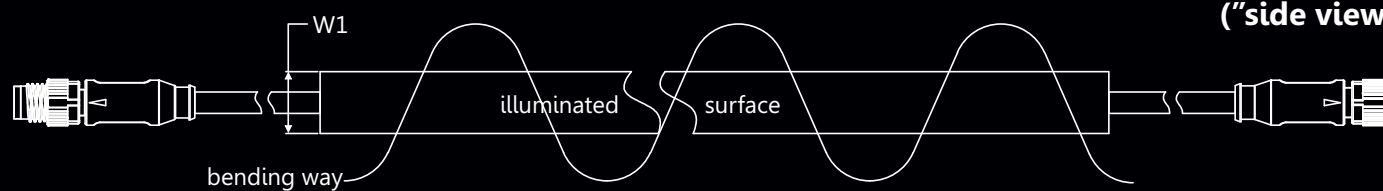


stainless steel 1.4401/SUS316 clip bracket (BCK.SLS.13/16/20)

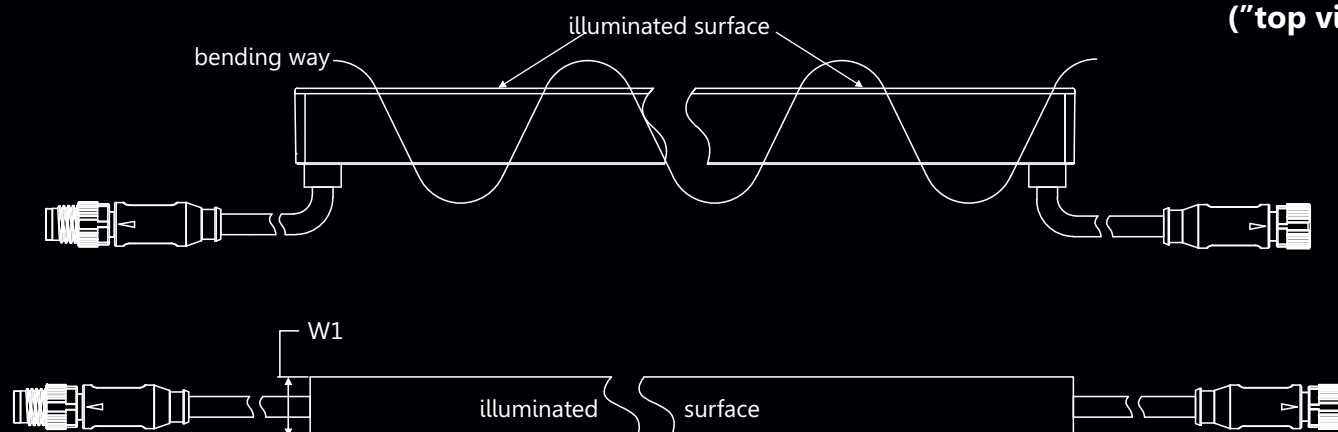
L: 50mm
3pcs/m as standard
(other qty on request)

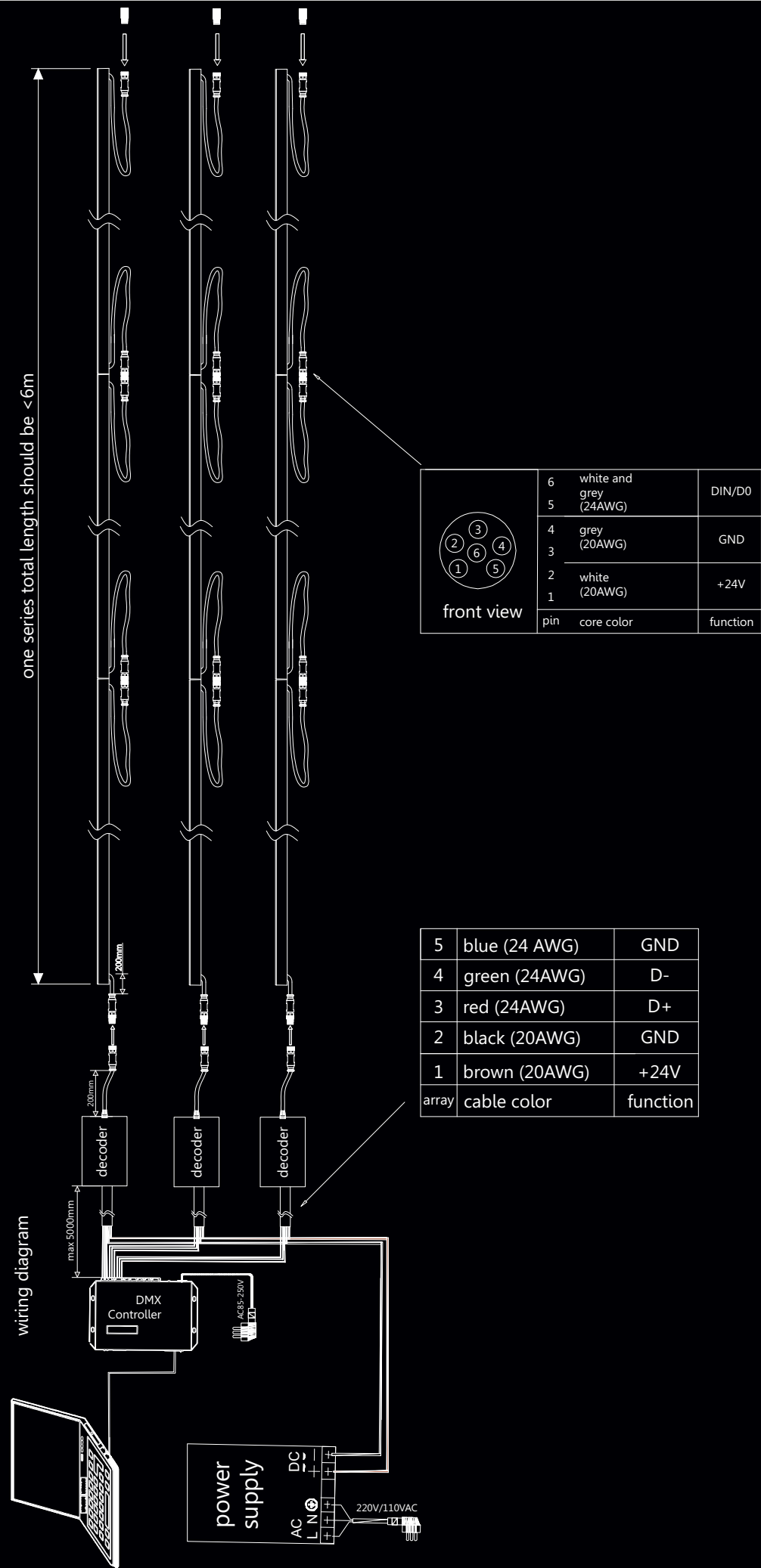


series S06.01/S06.02

horizontally flexible
("side view")

series S06.03/S06.04/S06.05/S06.06

vertically flexible
("top view")







ELTE

connection diagrams (pg 72-75)

connectors/plugs (pg 76)

assembling (pg 77-79)

aluminum profile options (pg 80)

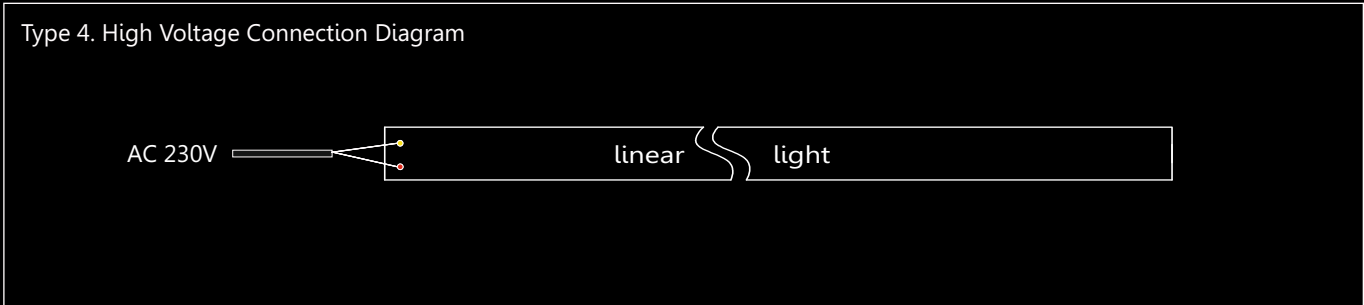
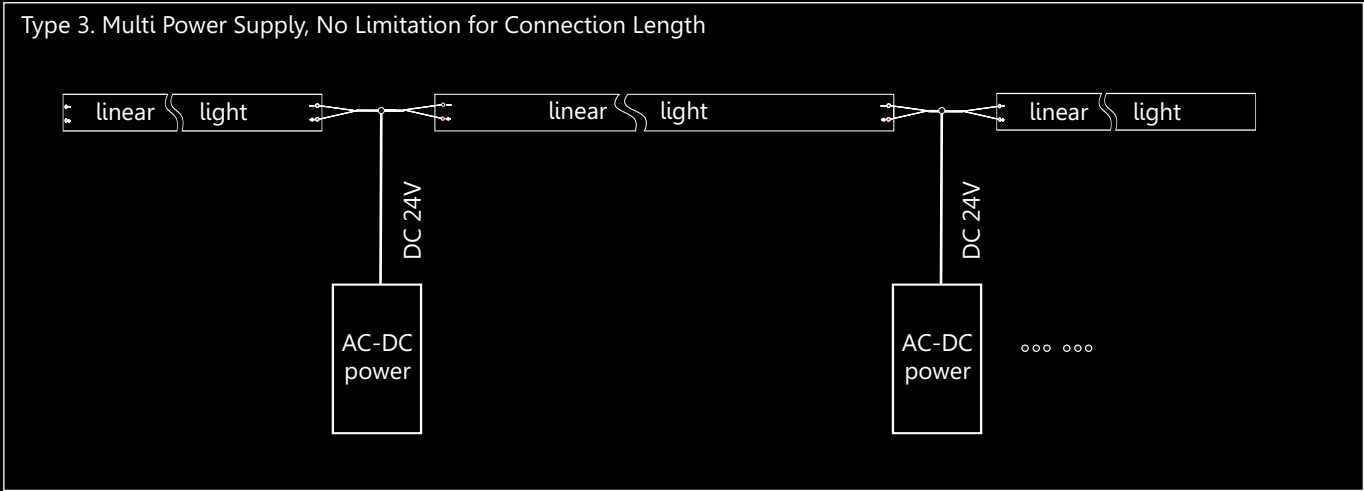
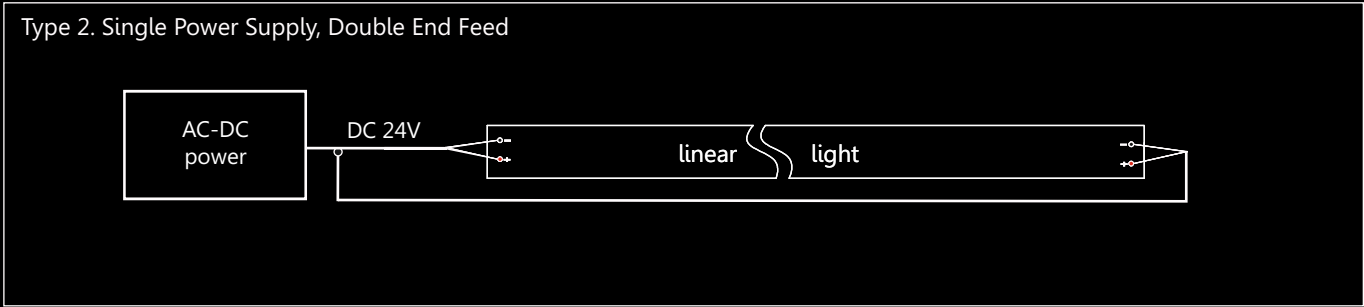
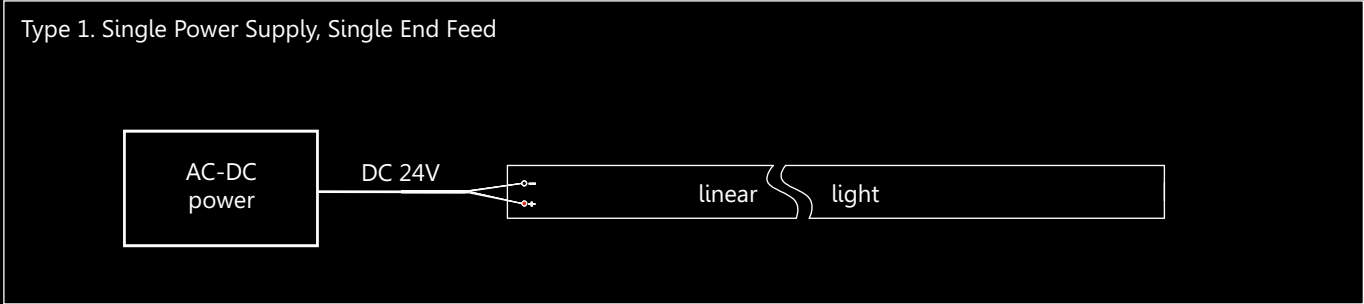
general notes (pg 81)

storage and handling (pg 82)

power supply options (pg 83-84)

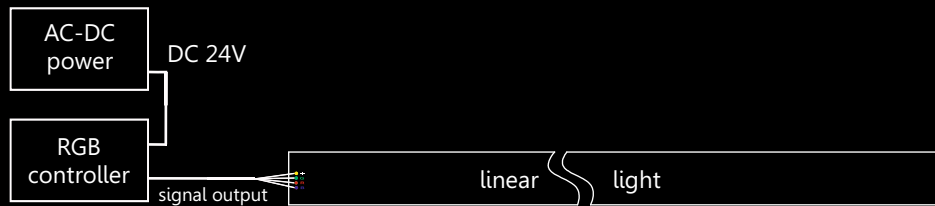
technical information (pg 85-86)

	Single End feed		Double End feed	
	Red/Amber	Green/Blue/White	Red/Amber	Green/Blue/White
Series 01	20m	15m	40m	30m
Series 02	20m	15m	40m	30m
Series 03	15m	10m	30m	20m
Series 04	15m	10m	30m	20m
Series 05	15m	10m	30m	20m

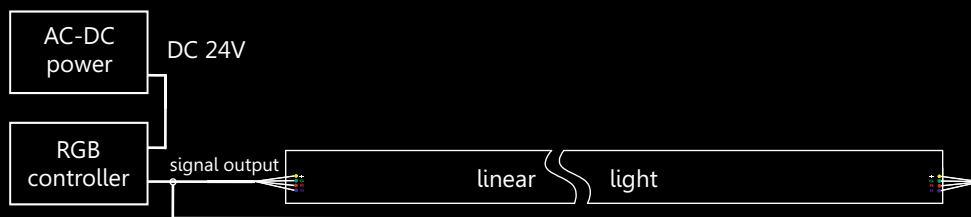


	Single End feed	Double End feed
Series 03	10m	20m
Series 04	10m	20m

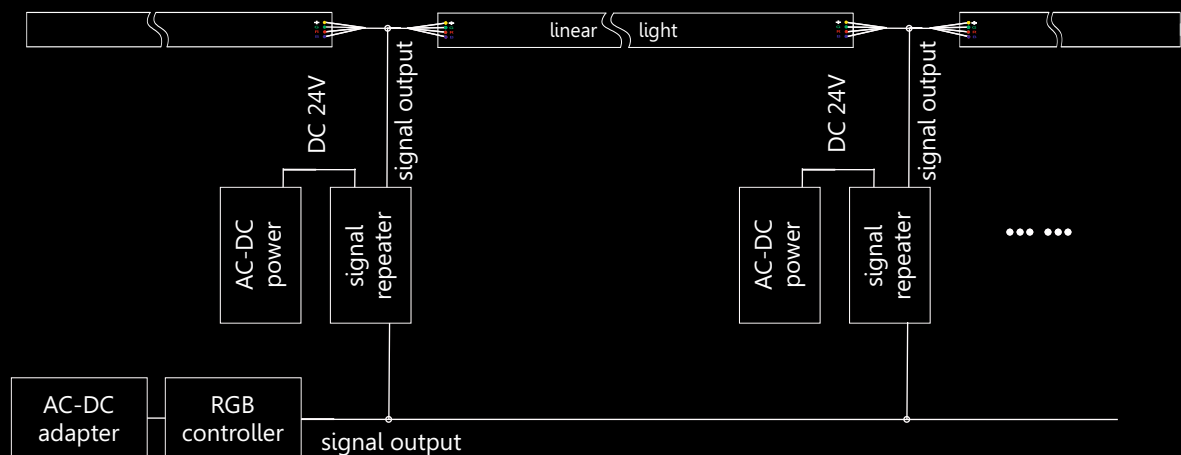
Type 1. Single Power Supply, Single End Feed



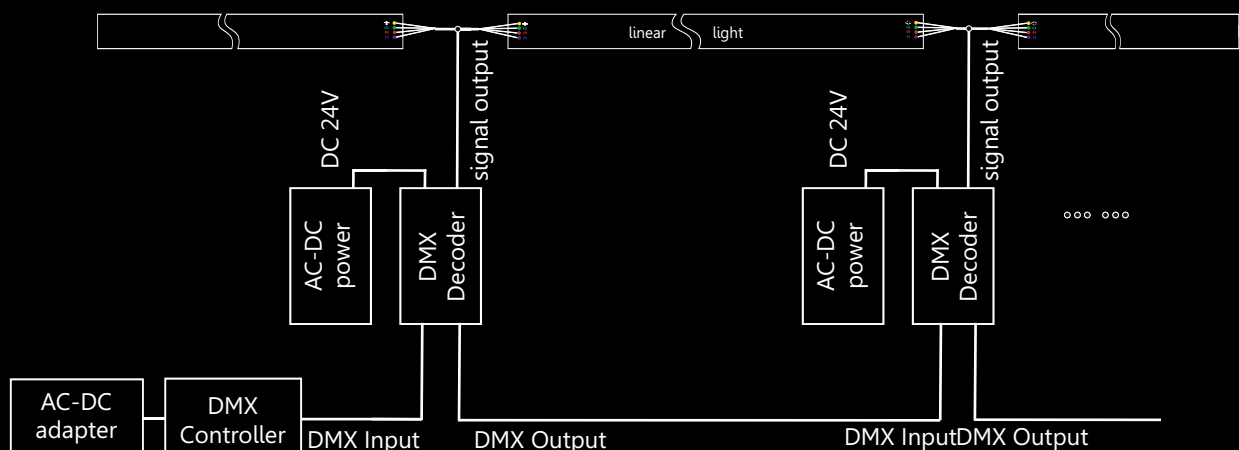
Type 2. Single Power Supply, Double Ends Feed



Type 3. Muti Power Supply and RGB Light, Accurate Synchronization

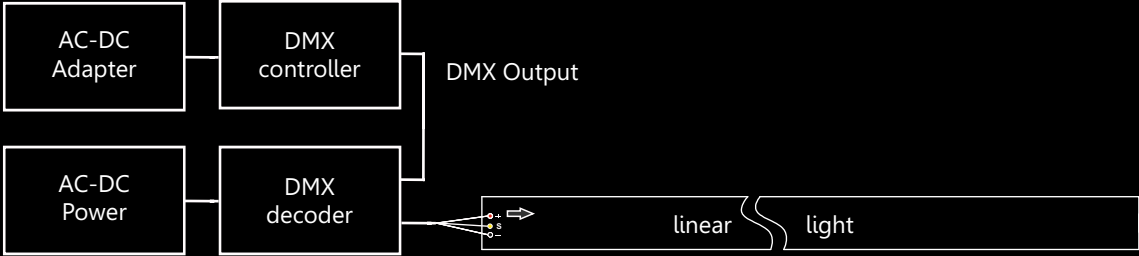


Type 4. Muti Power Supply and RGB Light, DMX Control

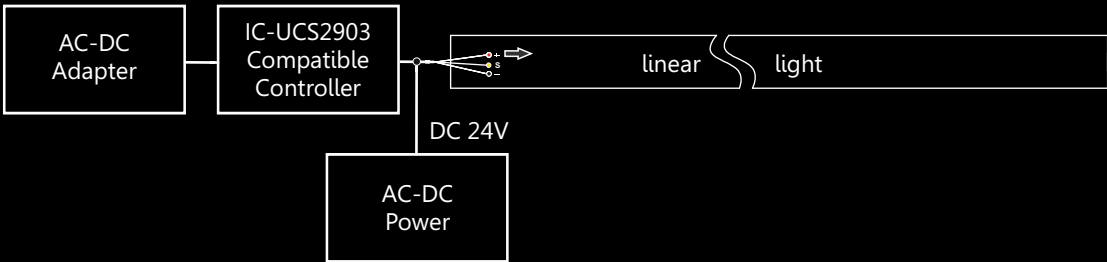


	Single End feed	Double End feed
Series 03	15m	30m
Series 04	15m	30m

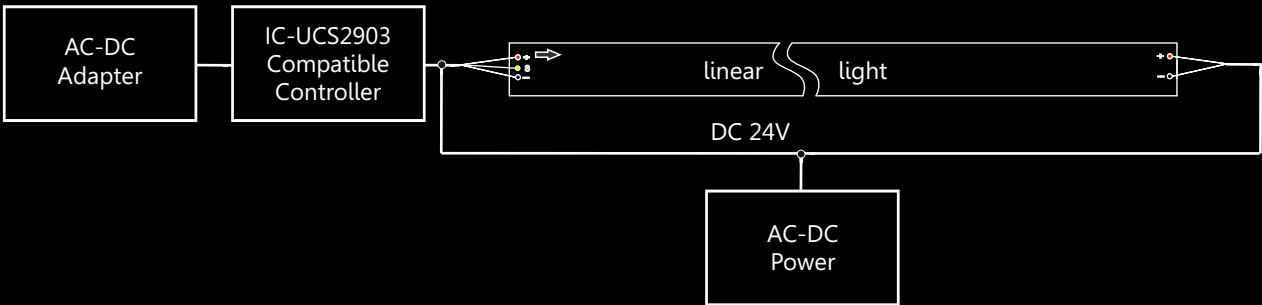
Type 1. Working with DMX Controller and DMX Decoder, Single End Feed.



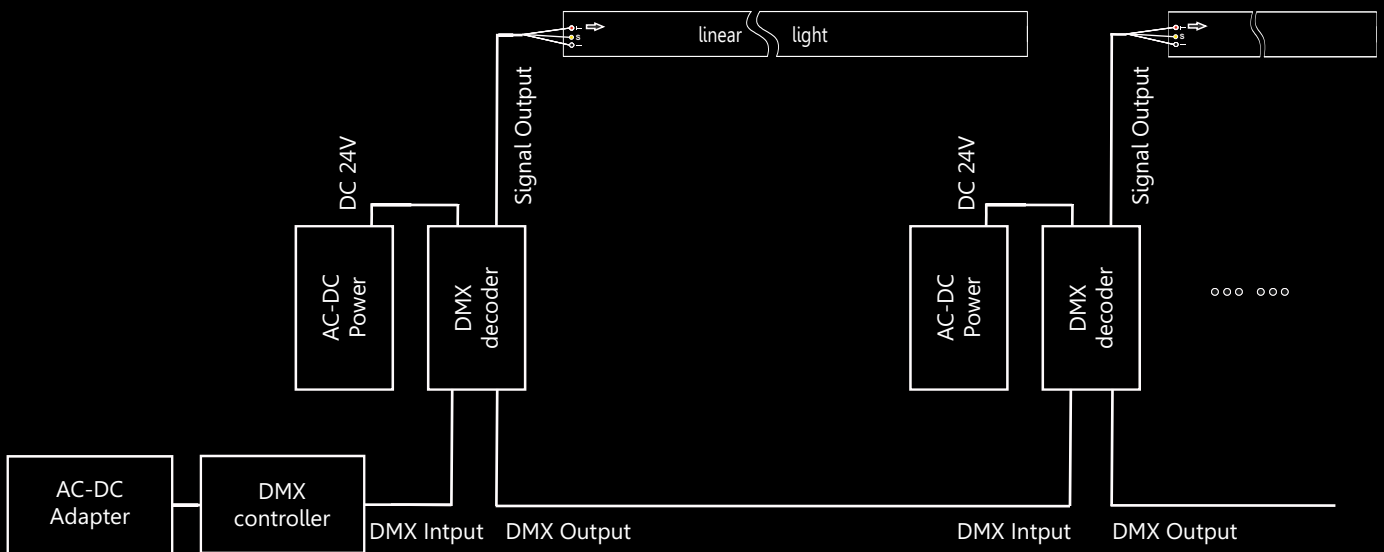
Type 1. Working with IC-UCS2903 Compatible Controller Single End Feed.



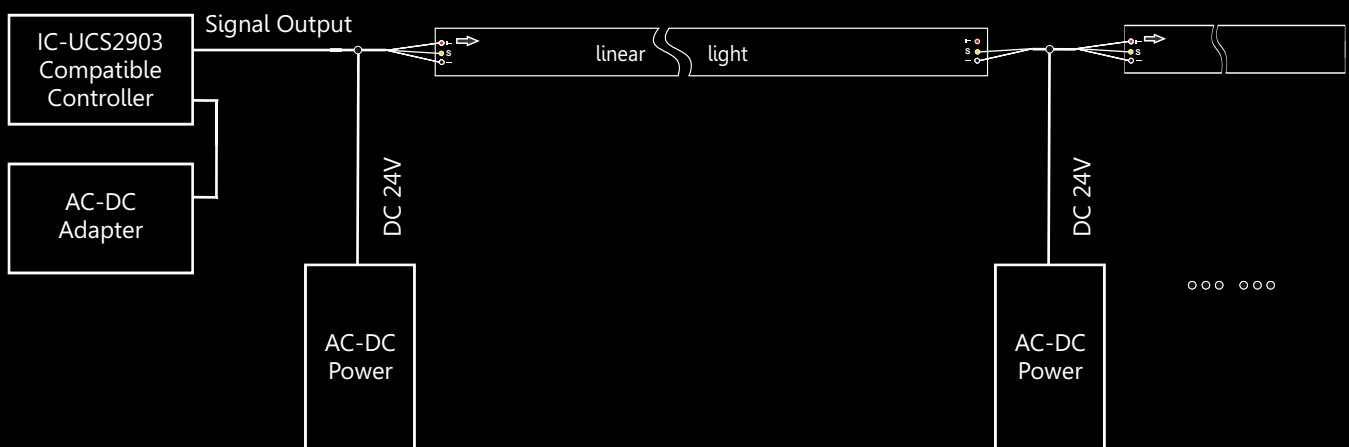
Type 1. Working with IC-UCS2903 Compatible Controller Double Ends Feed.



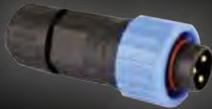
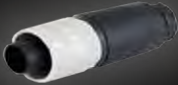
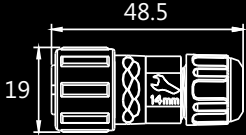
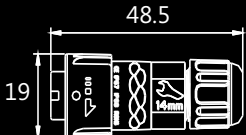
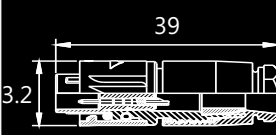
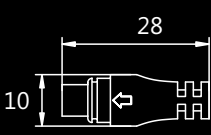
Type 4. Working with DMX Controller and DMX Decoder, Multi Power Supply and Chasing Light.



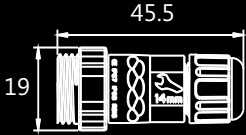
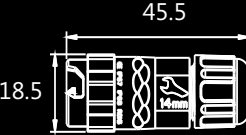
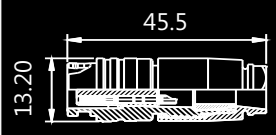
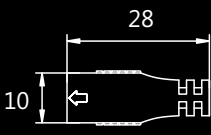
Type 1. Working with IC-UCS2903 Compatible Controller, Multi Power Supply and Chasing Light.



Connectors/Pins (Male)

screw type 	push-and-lock type 	push-and-lock type 	plug-in type 
			

Connectors/Pins (Female)

screw type 	push-and-lock type 	push-and-lock type 	plug-in type 
			

Number of contacts	2	3	4	2	3	4	2	3	4	2	3	4
wire gauge	0.823mm2(18AWG)			0.823mm2(18AWG)			0.34mm2(22AWG)			0.2mm2(24AWG)		
cable range	3.5mm-6.8mm(field solder)			3.5mm-6.8mm(field solder)			2.9mm-6.3mm			Max.5mm(molded)		
	Max.9mm(molded)			Max.9mm(molded)			Max.6.3mm(molded)					
IP Rating	IP68/IP67			IP68/IP67			IP67/IP66			IP65		
Voltage Rating	300V	300V	125V	300V	300V	125V	110V	110V	110V	110V	110V	110V
Rated Current	10A	10A	10A	10A	10A	10A	2A	2A	2A	2A	2A	2A

special tools



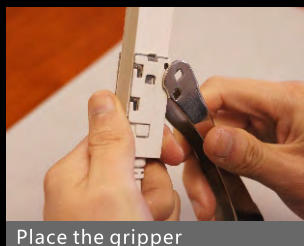
Special tools allow precise cutting to make the cross section flat and smooth to achieve proper IP68 protection with front connectors and end caps.

Insert inducer: the light is capsulated by PVC, electrodes may be very close to PVC. Insert inducer will help you to get them apart easily to get the copper for installing connector properly.

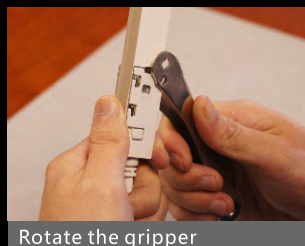
Gripper: it is meant for finishing mechanical clasp connector assembly. After pushing anti-skidding clip into U-steel plate, place it in right setting slot against the U-steel plate. With U-steel plate as fulcrum, rotate the gripper by lever principle until hearing sound of snap-in or seeing popup of shrapnel of anti-skidding clip.



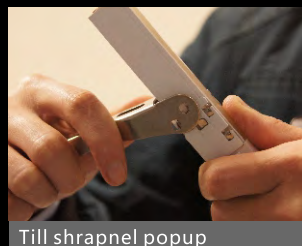
Cut the light vertically



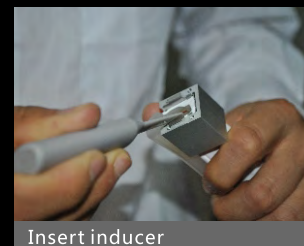
Place the gripper



Rotate the gripper

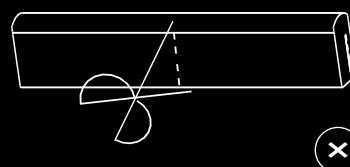
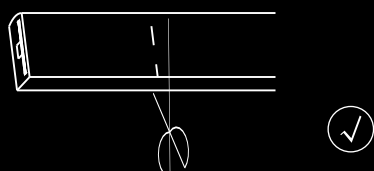
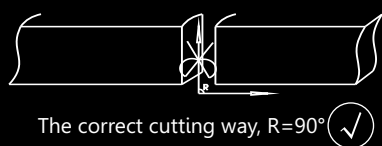


Till shrapnel popup



Insert inducer

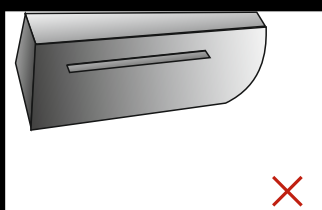
- 3.1. Always follow User Manual to assemble accessories.
- 3.2. Only use accessories supplied or approved by ELTE licht.
- 3.3. This product must be assembled by qualified personnel to ensure electrical functionality and waterproof protection properly done.
- 3.4. Always follow User Manual to cut the linear flexible light product correctly: cut it vertically and straight along the cutting line.
Special cutter tool is recommended.



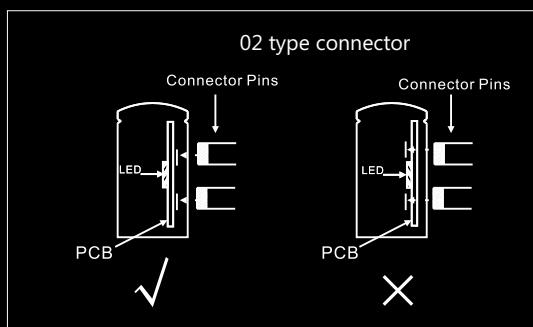
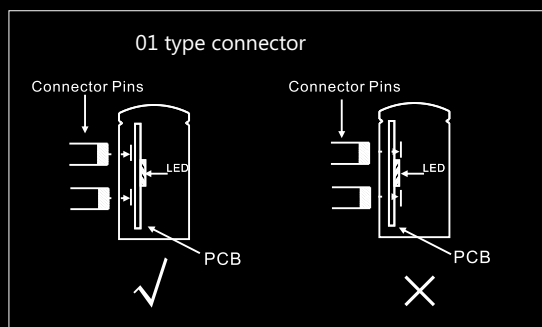
3.4. Cut the linear flexible light product only at the cutting mark shown on the product.



3.5. Make sure the cut section is flat after cutting. Trim the PCB if it is extruded.



3.6. Pay attention to the correct insert position of the front connector metal pins.



Installation Tools



We recommend using special inducer for proper installation (provided by us and sold separately). Insert the inducer in the hole between PCB back and thinner PVC side, then spread and make space between them. Then insert, sliding down along inducer, the front connector pin, watch correct polarity. Then pull out inducer.



3.7. Select the appropriate type of front connector (type 01 or 02) based on PCB position shown on the product.

01-type connector
Top-view



Back-view



02-type connector
Top-view



Back-view

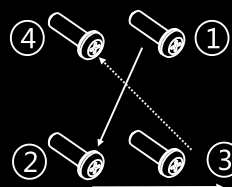
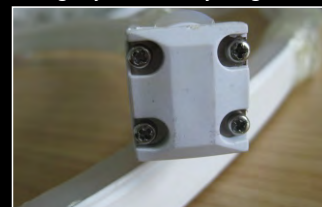


3.8. When installing IP68 make sure there is no gap at the bottom, between anti-skidding clip and the light product.

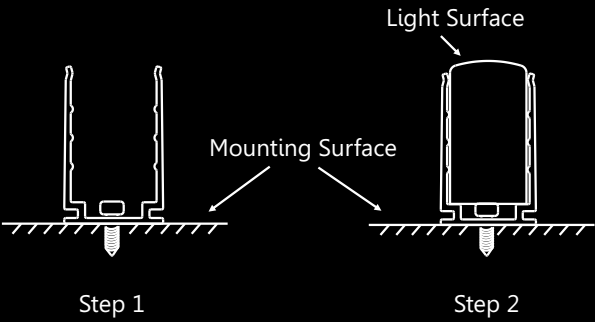
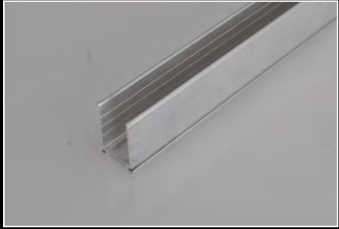


3.9. Always follow instructions in the User Manual to assemble IP68 connectors.

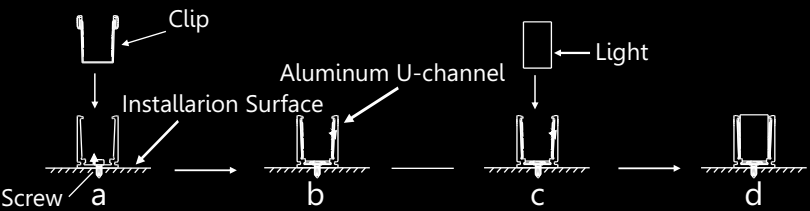
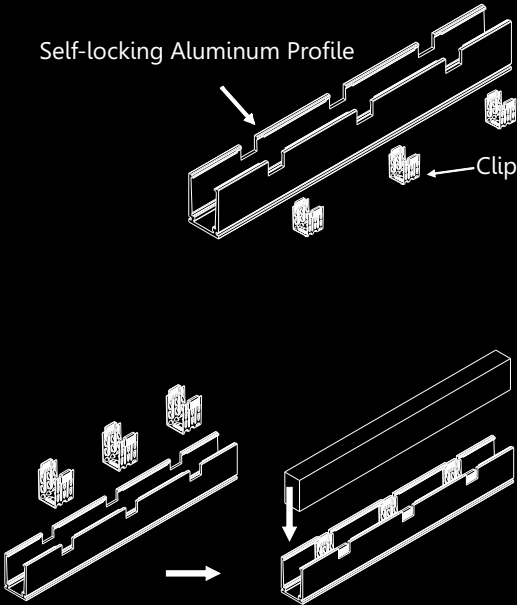
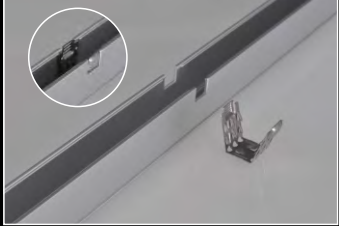
Always make sure all the connector are tightly screwed by diagonal sequence.



aluminum profile
(AL.CH.RIG)

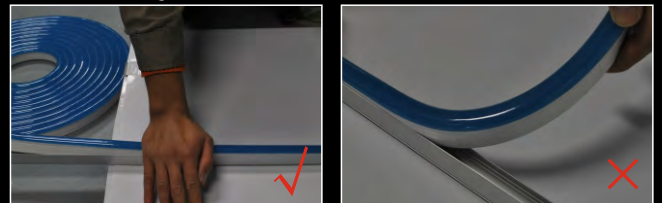


self-locking aluminum profile
(AL.CH.RIG+SLF.LCK)

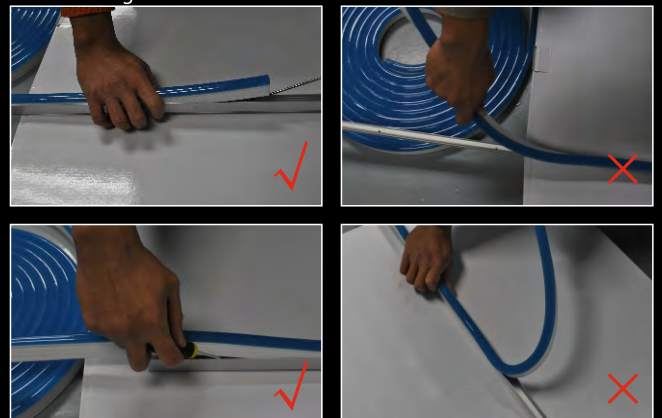


- 4.1. Always follow User Manual instructions during installation. This product should be installed by a qualified personnel.
- 4.2. Before installation make sure the electrical power is off.
- 4.3. It is better to test RED, GREEN, BLUE channels accordingly before RGB light installation. Then connect RGB light to the RGB controller if each channel works well.
- 4.4. Use the power supply provided or recommended by the manufacturer. And the power supply must be constant voltage (CV) output with over-load protection, over-voltage and short protection functions. CE and UL-certified power supplies are recommended.
- 4.5. The capacity of power supply unit should be higher than the total product's power. 80% load rate is better to ensure the light product's life span.
- 4.6. The maximum running length must not exceed specified value in instruction manual. Do not overload.
- 4.7. Use only correct polarity and voltage. Do not power DC light using high voltage.
- 4.8. Use aluminum channel, clips and other relevant to the product accessories provided by ELTE Licht GmbH only.
- 4.9. Make sure the product is handled and installed in the correct bending position.
- 4.10. Please, do not over-bend the product, follow the minimum bending diameter mentioned in the User Manual.
- 4.11. When aluminum profile is used during installation do not use hammer to insert the product into aluminum channel, but press gently with hands starting from one end proceeding along the channel till the end of it. Do not press from both the ends of it to avoid any bump in the middle of the profile. When removing the product from the channel, just release one end and then pull the product slowly out of the aluminum channel till the whole length of the product is out.
- 4.12. Product's bending operation temperature is $0 \sim +55^{\circ}\text{C}$;
After the product is installed working ambient temperature range is $-20^{\circ} \sim +55^{\circ}\text{C}$.
- 4.13. IP40 and IP68 protection results are tested within lab's conditions. Harsh and extreme use of the product (like extreme temperatures and abrupt change of it within short period of time, overheating, strong mechanical impact, etc.) may negatively influence the life span of the product and its water resistance qualities.
- 4.14. Do not position this product near heaters. Operate in an environment free of chemical hazards. Please, note that any excessive acidic, alkaline, radioactive, corrosive gas, etc. conditions may affect negatively the product's PVC materials.

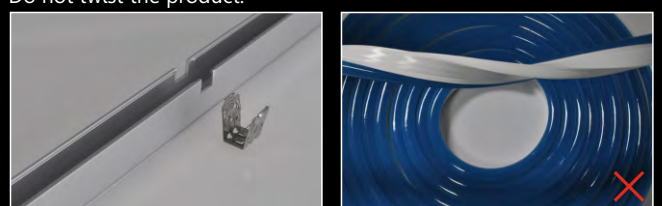
Installation diagram :



Remove diagram :



Do not twist the product.



Use special self-locking alm profile provided by ELTE Licht for easy installation and dismantling.

1. Storage and Transport

- 1.1. Make sure the linear flexible light product is kept pre-fixed front connectors and end caps.
Or it should be covered with black protective caps while storing.



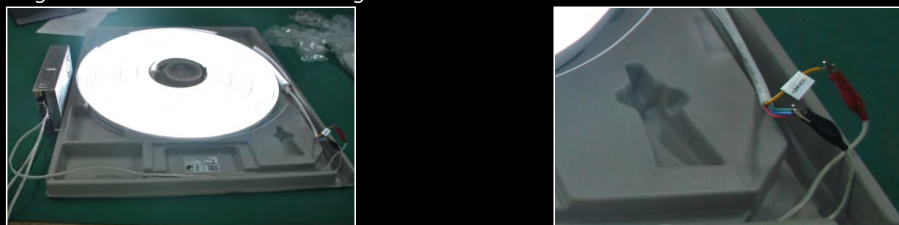
- 1.2. Storage and transport temperatures: $-20^{\circ} \sim +60^{\circ} \text{ C}$.

- 1.3. Keep the product from heavy impacts.

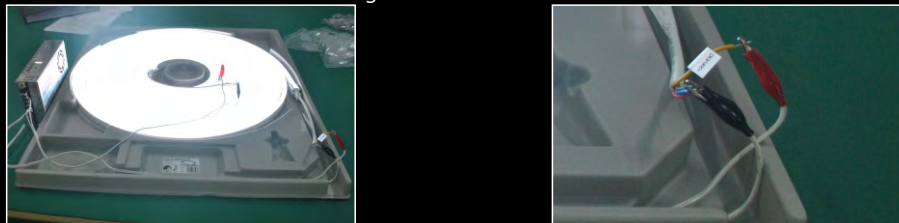
2. Unpacking and handling

- 2.1. If you need to test the linear flexible light product, then take out the whole inner blister, then install front connect and power up the light for less than 1 minute to avoid excessive heat.

Single end connection is for max. length of 10m



Double-end connection is for max. length of 20m

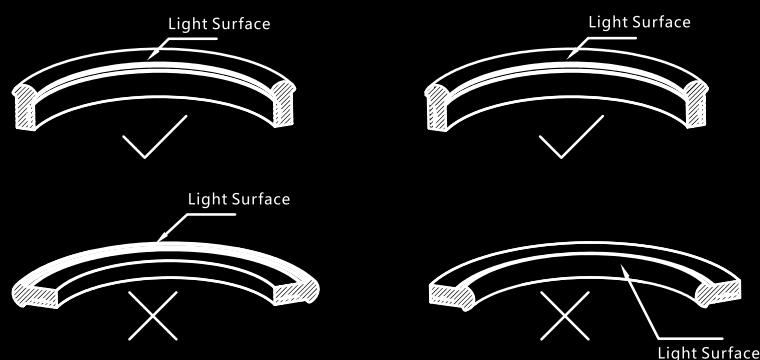


- 2.2. Always follow marks and indications on the packing or the product where in this case it shows that you can pull the inner blister 10cm out and then pull the product light slowly. Never twist the product light.



- 2.3. If you are packing the unrolled product light back in to the casing, please, co-operate with another person and make sure the product is bent correctly and in the correct direction into the inner blister. Do not unroll the product if you not intending to use it.

The correct bending direction for vertically flexible linear light product is with the printed letters on the product's PVC profile outwards. And for the horizontally flexible linear light product is with the illuminated surface outwards. Or refer to the original packed product as an example.





Voltage Range	90~264VAC	90~264VAC	90~295VAC	90~295VAC	90-305VAC
Article No.	LPV-35-24	LPV-60-24	CLG-100-24	CLG-150-24A	HLG-320A-24A
Efficiency	85%	89%	88.5%	90%	94%
Output Voltage	DC24V	DC24V	DC24V	DC24V	DC24V
Power Rating	35W	60W	96W	150W	320W
Output Current	1.5A	2.5A	4A	6.3A	13.34A
Certificate	UL, cUL, CE	UL, cUL, CE	UL, cUL, TUV, CB, CE	UL, cUL, TUV, CB, CE	UL, cUL, TUV, CB, CE
IP Rating	IP67	IP67	IP67	IP65	IP65
Size	148x40x30mm (LxWxH)	162.5x42.5x32mm (LxWxH)	222.2x68x38.8mm (LxWxH)	229x68x38.8mm (LxWxH)	256x90x43.8mm (LxWxH)



Voltage Range	85~264VAC	88~132VAC/176~264VAC
Article No.	SP-150-24	SP-320-24
Efficiency	87%	87%
Output Voltage	DC24V	DC24V
Power Rating	150W	312W
Output Current	6.3A	13A
Certificate	UL, cUL, TUV, CB, CE	UL, cUL, TUV, CB, CE
IP Rating	N/A	N/A
Size	199x99x50mm (LxWxH)	215x115x50mm (LxWxH)

Controllers



DMX Controller
LT 600

Working voltage: DC12V
Output signal channels: 16 channels
Input & output interface: RJ45
Loading capability: >512-1920 pixels/channel
Grey level: Max 65536 scale(64K)
Refreshing frequency: 60Hz~3000Hz
Online transmission mode: TCP/IP Protocol
Off-line storage media: Max.2GB SD card
The 3th interface: DMX512/1990 Protocol
Dimensions: L197XW120XH47(mm)
Weight (G.W.): 1350g



DMX Decoder
LT 1809

Input voltage: DC5V~DC24V
Input Signal: DMX512
Output signal: SPI
(compatible with TM1803, TM1804, Tm1809,
Tm1812, UCS1903, UCS1909, UCS1912, UCS2903,
UCS2909,UCS2912,WS2811 driving IC)
Decoding Channels: 512 channels/unit
Output Grey Scale: 256 levels/CH(8bit/CH)
DMX512 Connector: XLR-3, Green terminal
Dimension: L125×W52×H40mm
Weight (G.W): 300g



DMX Decoder
LT 830

Input signal: DMX512
Input voltage: DC5V~DC24V
Max current load: 6A/CH×3CH 18A Max
Max output power: 216W/432W(12V/24V)
Output Gray Scale: 256 levels/CH(8bit/CH)
DMX512 socket: XLR-3, RJ45, Green terminal
Dimension: L163×W78×H40mm
Weight(G.W): 340g



DMX Controller
LT 800

Working Voltage: DC12V
Power Consumption: <2W
Output Signal: DMX512
Output Loop: 1 Port
Transmission Speed: 250Kbps
Function Mode: 39 modes
Control Quantity: 170 pixels
Size: L163×W108×H40mm
Weight(G.W): 760g



RGB Controller
LT 330

Input voltage: DC5V~DC24V
Max current load: 8A×3CH Max 24A
Max output power:
120W/288W/576W(5V/12V/24V)
Function Mode: 25 modes
Scale Levels: 1024×1024×1024
Size: L170×W64×H44mm
Weight (G.W): 200g



RGB Remote
T3

Input Voltage: DC5V Li-Battery
Working Current: <30mA
Working Frequency: 2.4GHZ
RF Remote Distance: 30m
Remote Option: Sync Control
Battery Capacity: 1000mAh
Standby Time: 6 months
Normal Using Time: 30 days
Size: L145×W55×H22(mm)
Weight (G.W.): 200g

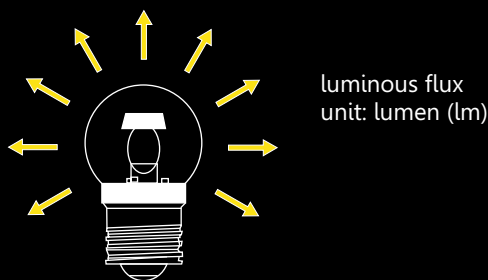


RGB Controller
T3-5A

Power Supply Chosen:DC CV SMPS
Input Voltage: DC12V ~ DC24V
Max Current Load: 5Ax 3CH Max 15A
Max Output Power: 180W/360W(12V/24V)
Change Mode: 32 Fantastic modes
Control Button: 8 touch buttons
Grey Scale Levels: 1024x1024x1024
Compatible Remote Control:T3/T3M/T3X
Size: L211×W40×H30(mm)
Weight (G.W.): 180g

1. Luminous flux

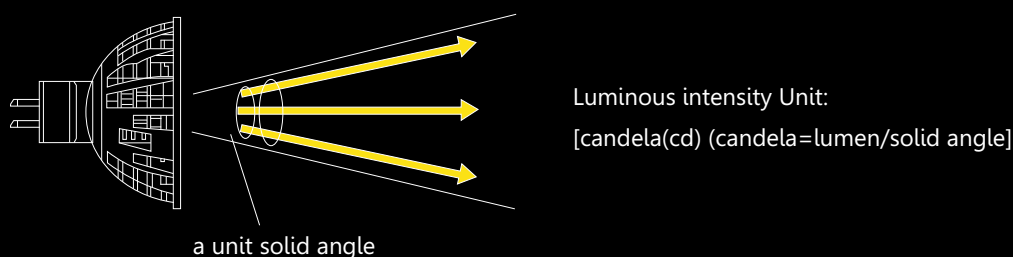
The SI unit of luminous flux is the lumen (lm). The luminous flux [lm] indicates all the radiated power emitted by a light source in all directions.



2. Candela

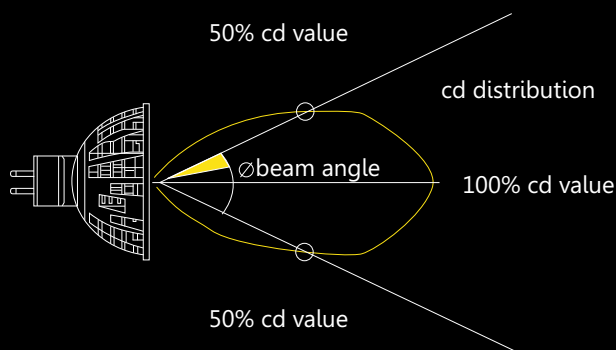
The candela is the SI base unit of luminous intensity; that is, power emitted by a light source in a particular direction. Luminous intensity in different directions is different from a particular light source.

[candela=lumen/solid angle]



3. Beam angle unit

The beam angle is the angle between the two directions opposed to each other over the beam axis for which the luminous intensity is half of the maximum luminous intensity. Beam angle can tell people how the beam transmits from beam axis.

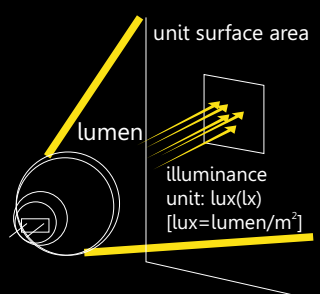


4. Lux (lx)

The lux {symbol: lx} is the SI unit of illuminance and luminous emittance measuring luminous power per area.

1 lumen/ft²=1 foot candlepower

1 lumen/m²=1 lux



5. Correlated Color Temperature (CCT)

The black-body radiator appears of different colors when heated in correlated temperatures. CCT refers to the temperature when the color of the heated black-body radiator corresponds to that of the light source.



CCT range and standard, referring ANSI_NEMA_ANSLG C78.377-2008
Measurement of chromaticity shall be made in accordance with methods given in the measurement standard IESNA LM-79.

Nominal CCT Categories

Nominal CCT	Target CCT and tolerance (K)	Target Duv and tolerance
2700K	2725 (±145)	0.000 ± 0.006
3000K	3045 (±175)	0.000 ± 0.006
3500K	3465 (±245)	0.000 ± 0.006
4000K	3985 (±275)	0.001 ± 0.006
4500K	4503 (±243)	0.001 ± 0.006
5000K	5028 (±283)	0.002 ± 0.006
5700K	5665 (±355)	0.002 ± 0.006
6000K	6050 (±450)	0.003 ± 0.006
6500K	6530 (±510)	0.003 ± 0.006

Notes: Six of the nominal CCTs correspond to those in the fluorescent lamp specification: 2700K, 3000K, (Warm White), 3500K (White), 4100K (Cool White), 5000K, and 6500K (Daylight), respectively.

6. Color Rendering Index (CRI)

The color rendering index (CRI) is a quantitative measure of the ability of a light source to reproduce the colors of various objects faithfully in comparison with an ideal or natural light source.

7. Luminous Efficacy (Lumen/Watt)

Luminous efficacy is a measure of how well a light source produces visible light. It is the ratio of luminous flux to power. [Luminous efficacy=lumen/watt)

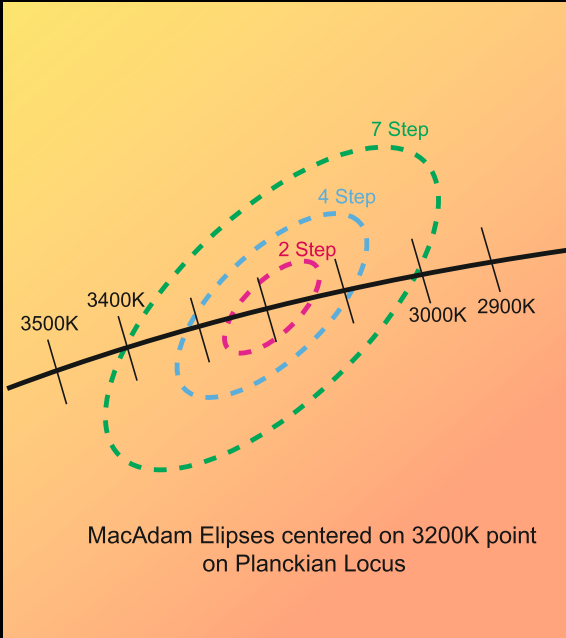
8. Lumen Maintenance

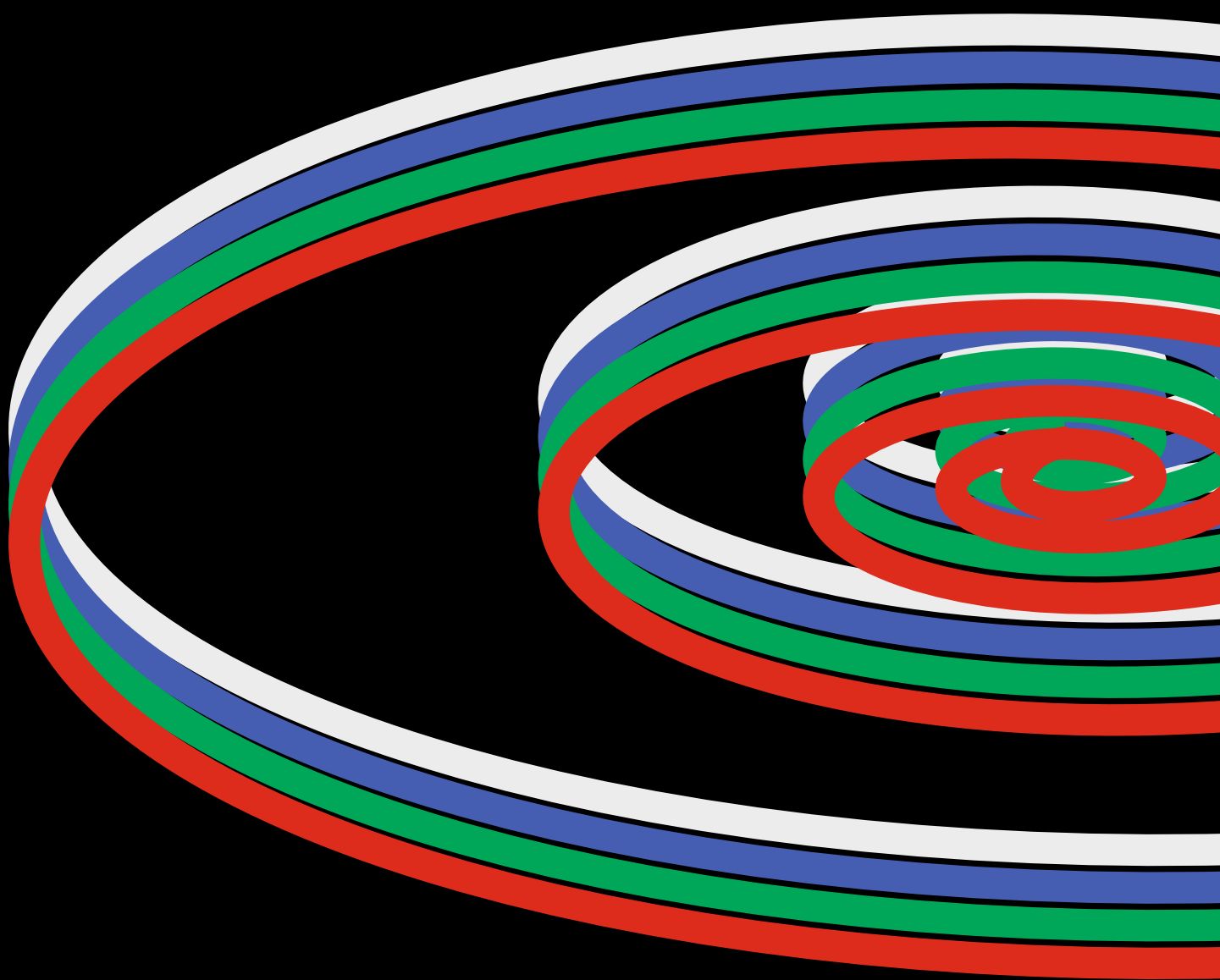
Lumen maintenance is the luminous flux output remaining output (typically expressed as a percentage of the maximum output) at any selected elapsed operating time. Lumen maintenance is the converse of lumen depreciation.

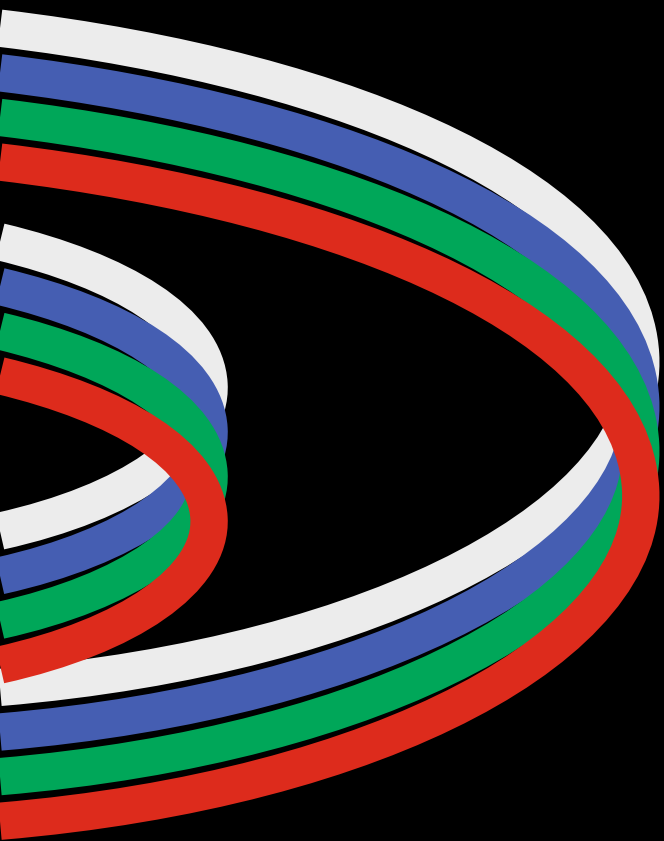
9. SDCM & MacAdam Ellipses

SDCM is an acronym which stands for Standard Deviation Color Matching. SDCM has the same meaning as a “MacAdam ellipse”. A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) color space within which the human eye cannot discern color difference. Most LEDs are binned at the 4-7 step level, in other words you certainly can see color difference in LEDs that are ostensibly the same color.

These are the three sizes often used in the color specification for light sources. In particular, the 7-step is the standard for color consistency in CFL lamps and in ANSI/NEMA/ANSLG C78.377-2008 American National Standard for Specifications for Chromaticity of Solid State Lighting (SSL) Products (which is a standard for white light, not colored). 7-step ellipse centered on 3200K covers a very broad area and spans a 500K range of color temperatures from 2950K to 3450K. The 4-step and 2-step ellipses are tighter standards that many light source manufacturers are already working to. The 4-step ellipse is also a standard to which many entertainment industry HID lamps, such as MSR and HMI, have been manufactured for many years.







ELTE

ELTE Licht GmbH
Albersallee 16
D 47533 Kleve
www.eltelicht.com
info@eltelicht.com