Illuminate with precision, offer diverse options, and experience the reliability and fl xibility of liniLED® Neon R Side Silicone—an epitome of innovation and adaptability in the world of advanced lighting solutions. Crafted with high-quality components, the liniLED® Neon R Side Silicone ensures reliable performance, meeting the demands of both indoor and outdoor installations.

This versatile product offers a range of options including Single Colour, Tunable White, RGB, and RGBW, providing dynamic and customizable lighting solutions for a variety of applications. With a high Colour Rendering Index (CRI) of 90, this product guarantees accurate colour representation, enhancing the visual appeal of any illuminated space.

For the latest version of this datasheet, visit our website: https://www.triolight.com/en/led-products/led-strips

USPs

Options for Single Colour, Tunable White, RGB and RGBW
High quality components with reliable performance.
Good fl xibility, side bending and easy to shape.
CRI 90
Warranty: 5 years indoor, 3 years outdoor.

Available colours

Colour		Description
	Extra Warm White 2700K	liniLED® Neon R Side 1100 2700K CRI90
	Warm White 3000K	liniLED® Neon R Side 1100 3000K CRI90
	Natural White 4000K	liniLED® Neon R Side 1100 4000K CRI90
	Cold White 6500K	liniLED® Neon R Side 1100 6500K CRI90
	2700 - 6500K	liniLED® Neon R Side Tunable White 1000 2700-6500K CRI90
	Red	liniLED® Neon R Side Red 400
	Green	liniLED® Neon R Side Green 1000
	Blue	liniLED® Neon R Side Blue 200
	RGB	liniLED® Neon R Side RGB 400
	RGBW	liniLED® Neon R Side RGBW 500 3000K CRI90

CE RoHS 24 V DC IP67/IP68 120 mm BEND RADIUS Flame resistant UV RESISTANT Solvents resistant FROST RESISTANT SEA WATER RESISTANT SWIMMING POOL ENVIRONMENT SWIMMING POOL SUBMERSIBLE CRI 90+ MAC ADAM 3 SDCM Warranty 5 indoor Warranty 3 outdoor

Technical specifications

	Neon R Side 1100 2700K CRI90	Neon R Side 1100 3000K CRI90	Neon R Side 1100 4000K CRI90	Neon R Side 1100 6500K CRI90	Neon R Side TW1000 2700-6500K CRI90
Product code [m]	RNS16-927	RNS16-930	RNS16-940	RNS16-965	RNS16-92765-TW
Power (24V DC)	17.2 W/m	17.2 W/m	17.2 W/m	17.2 W/m	14.4 W/m
CCT[1]	2700K	3000K	4000K	6500K	2700K - 6500K
CRI	90+	90+	90+	90+	-
Luminous flu [1]	1100 lm	1100 lm/m	1100 lm/m	1100 lm/m	946 lm/m
Luminous efficie y[1]	64.0 lm/W	64.0 lm/W	64.0 lm/W	64.0 lm/W	65.7 lm/W
Spool length	10m/roll	10m/roll	10m/roll	10m/roll	5m/roll
Section length	50.0 mm	50.0 mm	50.0 mm	50.0 mm	62.5 mm
LED type	2835	2835	2835	2835	2835
Number of LEDs/m	140pcs	140pcs	140pcs	140pcs	224pcs
Max. connection length	10.0 M	10.0 M	10.0 M	10.0 M	5.0 M
Dimensions (W x H)	16 x 17 mm				
Dimmable	PWM Dimming				
MacAdam Steps	3				
Beam angle	115				
Ingress protection	IP67				
Storage temperature	-20°C ... 70°C				
Operating temperature	-20°C ... 60°C				
Minimum bending radius	> 120				

[1] Typical measured values are given, which due to tolerances in components and production process can vary up to 10%.

Product drawings

Outlet directions

Left

Right

Straight

Bottom
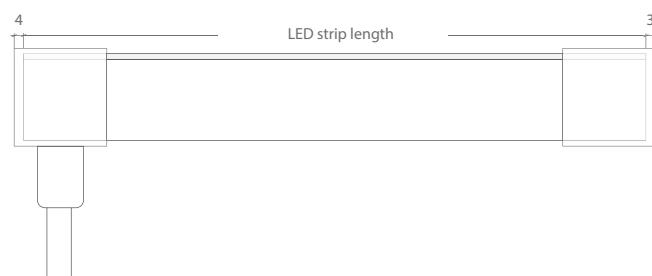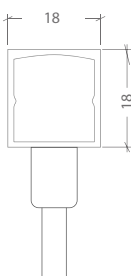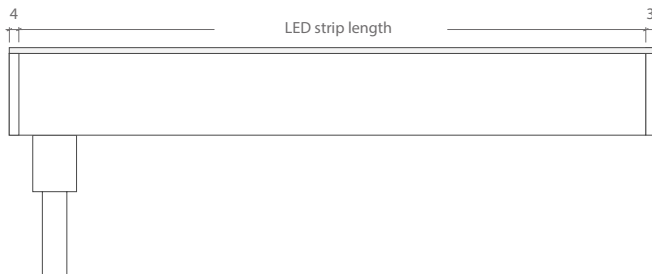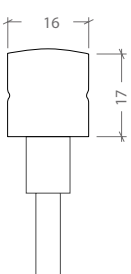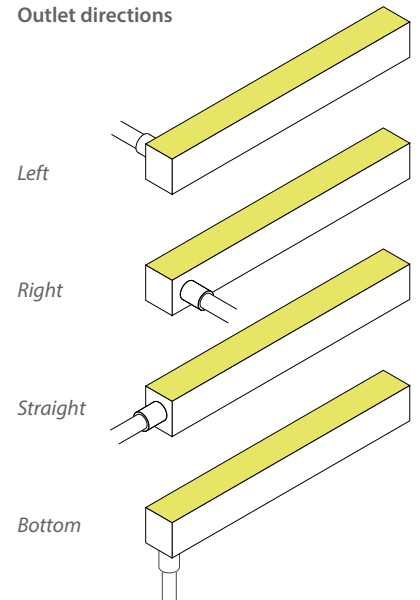
	Neon R Side Red 400	Neon R Side Green 1000	Neon R Side Blue 200	Neon R Side RGB 400	Neon R Side RGBW 500 3000K CRI90
Product code [m]	RNS16-R	RNS16-G	RNS16-B	RNS16-RGB	RNS16-930-RGBW
Power (24V DC)	17.2 W/m	17.2 W/m	17.2 W/m	17.2 W/m	17.2 W/m
CCT[1]	Red	Green	Blue	RGB	RGB + 3000K
CRI	-	-	-	-	-
Luminous flu [1]	391 lm/m	1020 lm/m	244 lm/m	416 lm/m	476 lm/m
Luminous efficie y[1]	22.7 lm/W	59.3 lm/W	14.2 lm/W	24.2 lm/W	27.7 lm/W
Spool length	10m/roll	10m/roll	10m/roll	5m/roll	5m/roll
Section length	50.0 mm	50.0 mm	50.0 mm	50.0 mm	83.3 mm
LED type	2835	2835	2835	4040	5050
Number of LEDs/m	140pcs	140pcs	140pcs	120pcs	72pcs
Max. connection length	10.0 M	10.0 M	10.0 M	5.0 M	5.0 M
Dimensions (W x H)	16 x 17 mm				
Dimmable	PWM dimming				
MacAdam Steps	3				
Beam angle	115				
Ingress protection	IP67				
Storage temperature	-20°C ... 70°C				
Operating temperature	-20°C ... 60°C				
Minimum bending radius	> 120				

[1] Typical measured values are given, which due to tolerances in components and production process can vary up to 10%.
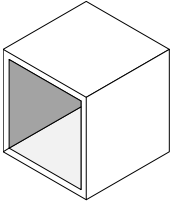
Bending radius and direction
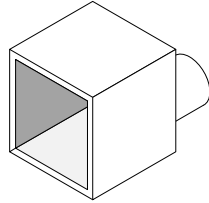

120 mm

120 mm
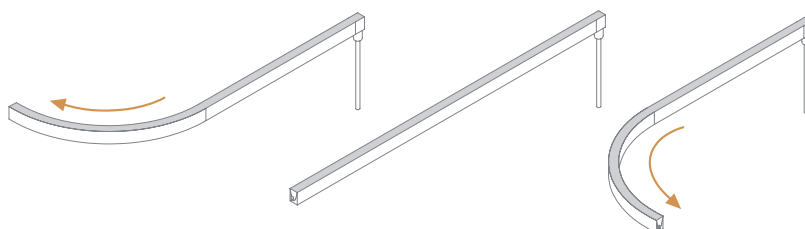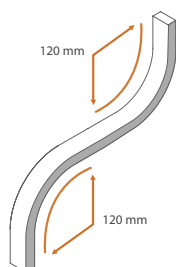
Accessories

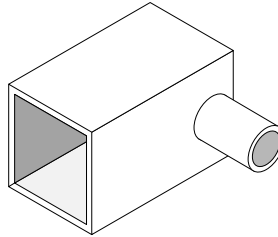## End caps

RN16-Cap

liniLED® Neon R 16x17

End Cap

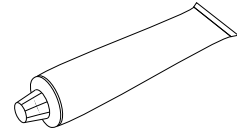**RN16-Con-S**

liniLED® Neon R 16x17

Connector Straight

RN16-Con-A
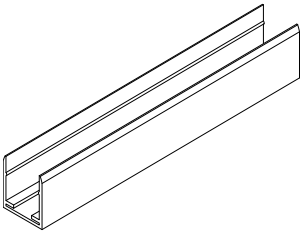
liniLED® Neon R 16x17

Connector Angled
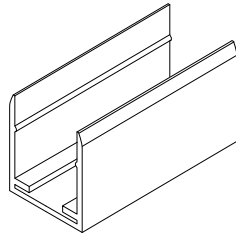
R-glue

liniLED® Silicone glue

Mounting profiles

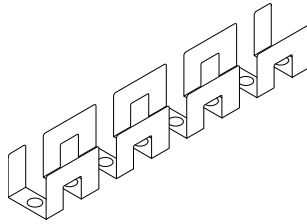**RN16-ALU1000**

liniLED® Neon R 16x17

Aluminium profile 1000 m

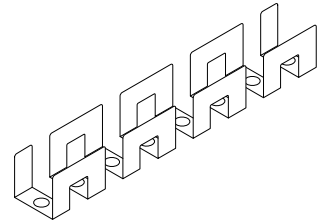**RN16-ALU35**

liniLED® Neon R 16x17

Aluminium Profile 35m

RN16-S05M

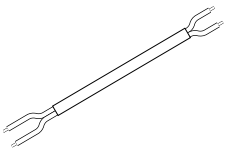liniLED® Stainless Steel

S-track 0.5 m

RN16-S10M
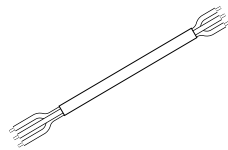
liniLED® Stainless Steel

S-track 1.0 m
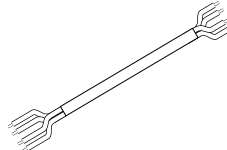
Cables

RN-C-M

liniLED® Neon R Cable

Mono 150mm

RN-C-TW

liniLED® Neon R Cable

TW 150mm

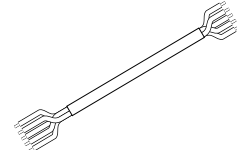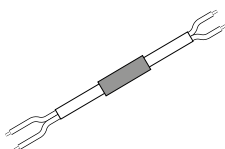**RN-C-RGB**

liniLED® Neon R Cable

RGB 150mm
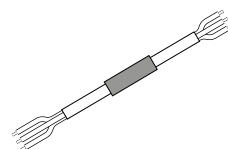
RN-C-RGBW

liniLED® Neon R Cable

RGBW 150mm

RN-CW-M

liniLED® Neon R Cable

Mono 300mm - Waterstop
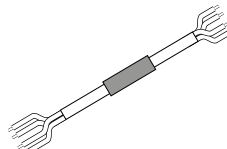
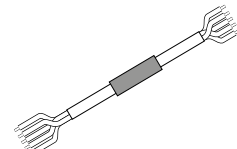**RN-CW-TW**

liniLED® Neon R Cable

TW 300mm - Waterstop

RN-CW-RGB

liniLED® Neon R Cable

RGB 300mm - Waterstop

RN-CW-RGBW

liniLED® Neon R Cable

RGBW 300mm - Waterstop

Power consumption

To power the liniLED® LED strips and lighting fi tures, a power supply from the liniLED® Power assortment can be selected. Selection of the correct power supply must be done by taking the total requested power and the environment into account.

The total power consumption can be calculated by summing the requested power of all connected products. To calculate the power consumption of a single length of LED strip, use the equation below. The typical equation is valid if the product is supplied by a 24 V DC constant voltage power supply. If the output voltage of a power supply is increased, the power consumption will increase with the same ratio and needs to be corrected by using the optional part of the equation found between brackets.

$$P_{STRIP} = P_{PRODUCT} \times X_{LENGTH} \times 110\% \left[\times \frac{U_{SUPPLY}}{24} \right]$$

P_{STRIP}	Calculated power consumption of one LED strip in Watt
$P_{PRODUCT}$	Typical power consumption in Watt per metre of the selected LED strip
	This value can be found under 'Product characteristics' on page 2
X_{LENGTH}	Length of the connected LED strip in metres
110%	Safety margin to buffer differences over all production batches

Optional:

U_{SUPPLY}	Set supply voltage of the power supply in Volt
24	Nominal supply voltage of liniLED® in Volt

Photometric information (preliminary)

In the process of lighting design and calculations, the luminous flux and beam angle alone a e not enough information to create a representative and realistic calculation or render. There is a set of photometric files or each LED strip type, available in two different file ormats:
- Eulumdat (.ldt)
- IES LM-63-1995 (.ies)

AVERAGE BEAM ANGLE(50%): 113.0°

AVERAGE BEAM ANGLE(50%): 112.8°

Note: the above data is based on RNS16-RGB. For other data, please consult sales rep.

Power and connection diagram

Measure output (23 - 25V DC)
before installing liniLED® system

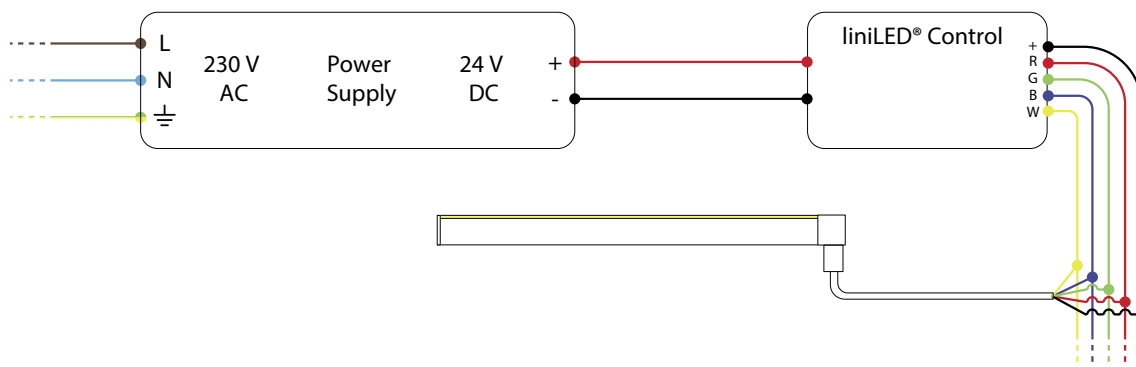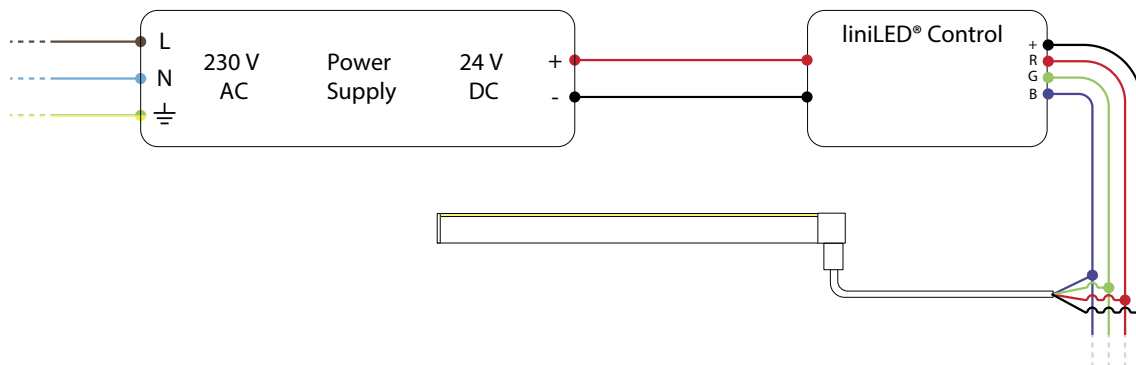|	L	230 V	Power	24 V	+		liniLED® Control	
	N	AC	Supply	DC	-		(Optional)	

liniLED® Control

	L	230 V	Power	24 V	+		liniLED® Control	+
	N	AC	Supply	DC	-			WW
								CW

	L	230 V	Power	24 V	+		liniLED® Control	+
	N	AC	Supply	DC	-			R
								G
								B

	L	230 V	Power	24 V	+		liniLED® Control	+
	N	AC	Supply	DC	-			R
								G
								B
								W
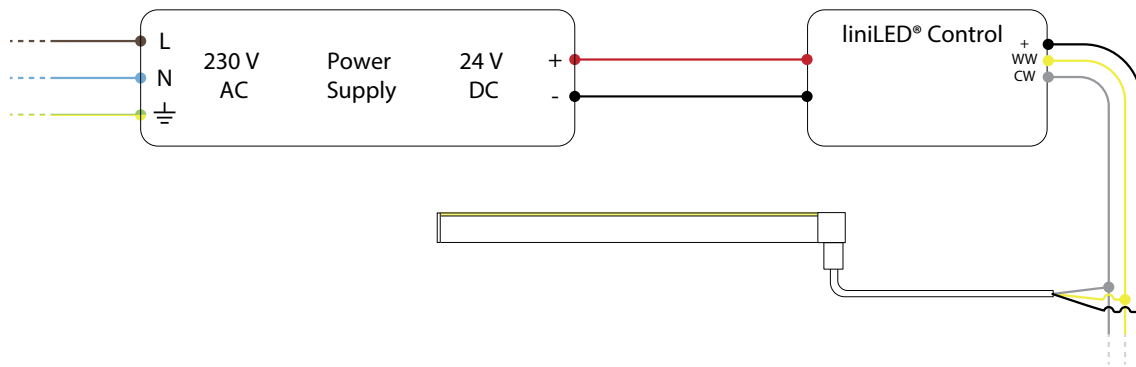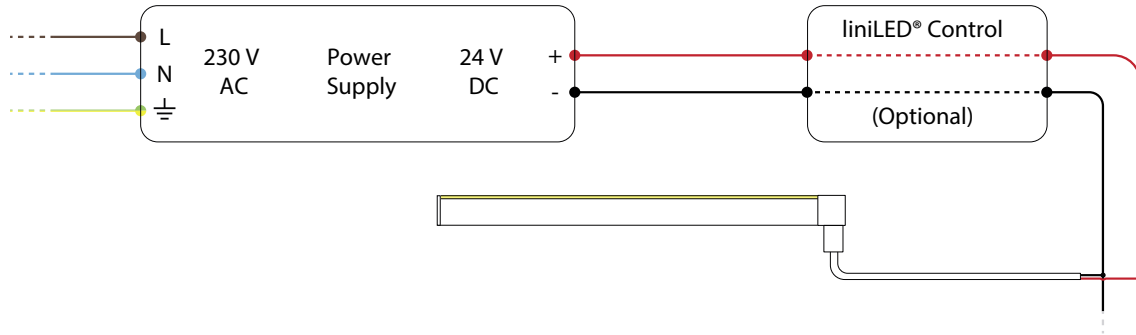
Symbols

Below is the general explanation of the symbols. Check the product specifications page for the values belonging to this specific product.

Manufacturer's declaration that the product meets the applicable EC directives.

Operating voltage of 24 V DC.

Electro Static Discharge (ESD) sensitive device, apply standard ESD precautions when handling the product.

Restriction of Hazardous Substances (RoHS): product complies with the RoHS directive and each homogeneous material does not exceed the limits for the materials mentioned under the RoHS directive (Pb, Hg, Cd, Cr6+, PBB and PBDE).

Not protected against ingress of solid foreign objects. Not-protected against ingress of water.

Dust-tight, no ingress of dust. Protected against the effects of temporary immersion in water (Immersion in water at a maximum depth of 1 metre up to a half hour).

The binning tolerance of this product is 3 MacAdam.

The CRI value of this product is 90 or higher.

Product is resistant against ultraviolet (UV) light or sunlight. Non-UV resistant products can degrade or discolour fast when exposed to UV light.

This product can be stored and used below 0 degrees Celsius. Verify the minimum storage and operating temperature in the datasheet or manual for the lowest temperature allowed.

This product can be applied in seawater and its environment. Elements in seawater will have no harmful effect on the product. For chemical speciÿcations of these elements see the liniLED® material sheet. Verify the IP rating for proper use.

This product can be applied inside swimming pool environments. Elements in the air will have no harmful effect on the product. For chemical speciÿcations of these elements see the liniLED® material sheet. Verify IP rating for proper use.

This product is available on request and can be applied submerged in swimming pools and their environment. Disinfectants will have no harmful effect on the product. For chemical speciÿcations of these elements see the liniLED® material sheet. Verify IP rating for proper use.

This product is resistant to solvents be applied its environment. These elements will have no harmful effect on the product .

System warranty of the indicated amount of years applies when the complete system consists of liniLED® products with the 5 years system warranty logo. Terms & conditions apply.

Disclaimer

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