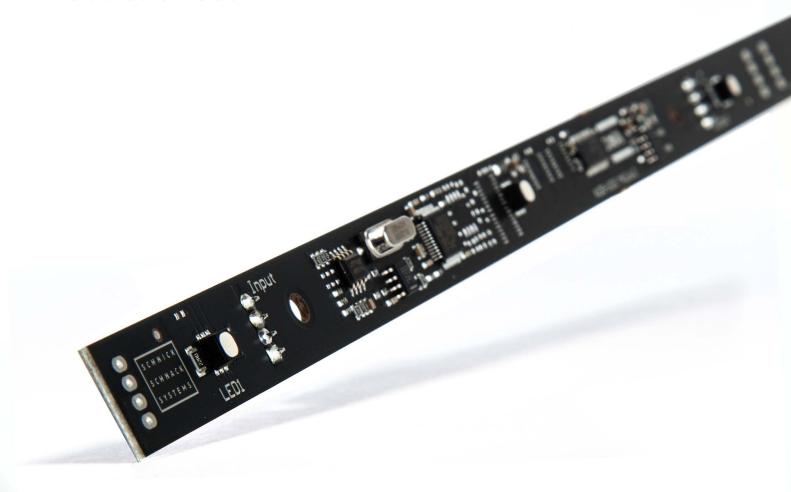


LED-Strip C100 MK2.6

Product Sheet





Introduction

FEATURES

- · Generation 3 compatible
- Automatic Addressing System (Smart Link) – no addressing at the board
- Compatible with other series from Schnick-Schnack-Systems
- Free patch, color change and scroll text control software
- · Made in Germany
- · Premium quality LEDs
- Individual color calibration of fitted LEDs
- · Subsequent calibration possible
- Optimum RGB color mixing in an SMD-component (no colored shadows)
- Wider 115° beam angle
- · camera friendly dimmable
- Equal brightness despite different supply-line lengths due to integrated switching regulator
- Enough "headroom" for longer durability
- Direct control with DMX 512-A
- Direct connection to 24V DC
- · Pliable, fiberglass reinforced board
- · Minimal surface temperature
- Higher contrast due to black lacquered board
- · Versatile mounting options

Use

The Product C-Series LED Strips are equipped with high quality and efficient RGB LEDs. Each LED can be individually controlled and are therefore the ideal LED light source for all uses when edges, surfaces or decorative elements are going to be illuminated with video effects. Whether used for backlighting or as a display, the C-Series LED Strips bring color and movement to walls, floors, counters, light boxes or architectural features enabling the most flexible forms of displays.

Technology

The LED-Strips C100 MK2.6 come in lengths of 500mm and 1000mm in a 100mm grid. The LED Strips C100-1000 MK2.6 are made up of two flexible 500mm segments that are interconnected.

The LEDs are individually color calibrated and therefore white and pastel tones can be controlled more precisely. The color effect of the LED-Strips is more natural and, unlike with the group controlled RGB Systems, shading and color variation is possible within a line. Due to the arrangement of the LEDs there is no color shift in the horizontal viewing angle when mounted vertically. The LEDs in the C-Series are also dimmable and therefore more camera-friendly. A DMX converter integrated into the board simplifies the cabling and enables a quick system start-up. And, thanks to our Smart Link Technology elaborate addressing of the Strips is no longer necessary.

The C100 MK2.6 LED Strips belong to Generation 3 and in addition to DMX, can also read the Dynamic-Pixel-Bus protocol (DPB). By using the DPB, more LED Strips per output of a system power supply are available. A variable transmission rate enables the best, customized balance of channel count, frame and error rate. When video signals are used, a system-wide synchronization – System Wide Sync – prevents image distortion. The system speed can therefore easily reach the 60fps update rate and switching between DMX and DPB is possible at all times.

The firmware can be upgraded from one central point via the network with the System Power Supply 4E, which also means that future standards or additional developments can be supported. Each Strip sends status information such as temperature, data error rate, input voltage or LED defects back to the control system and therefore enabling a problem-free remote diagnosis.

When using diffusers, the distance needed to create a homogeneous surface depends on the material. There should be at least 18cm from the topside of the LED to the diffuser. The LEDs are mounted with board holders.

Control

Power is drawn from the System Power Supply 4E, the DPB Pixel-Router or the Sys One – for smaller installations also via an appropriate power supply. Pixel-accurate control of the C-Series LED Strips can be achieved with lighting boards, media servers or with our Pixel-Gate video converter via the Ethernet interface of the System Power Supply 4E.

Mechanical data

Features	LED-Strip C100-500 MK2.6	LED-Strip C100-1000 MK2.6
Length	500mm	1000mm
LED-Pitch	100mm	100mm
Number of RGB LEDs	5	10
Pin connection and -colour	System connector red	System connector red
Safety class	IP00	IP00
Weight	31,9g	63,9g





LED-Strip C100-1000 MK2.6 (Master front view)



LED-Strip C100-1000 MK2.6 (Master rear view)

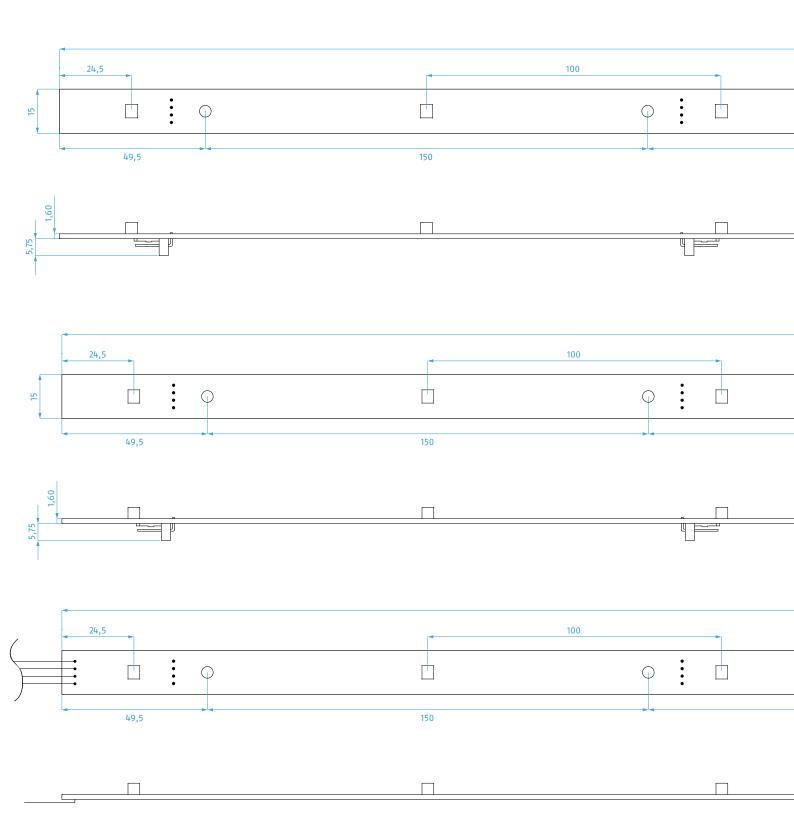


LED-Strip C100-1000 MK2.6 (Slave front view)

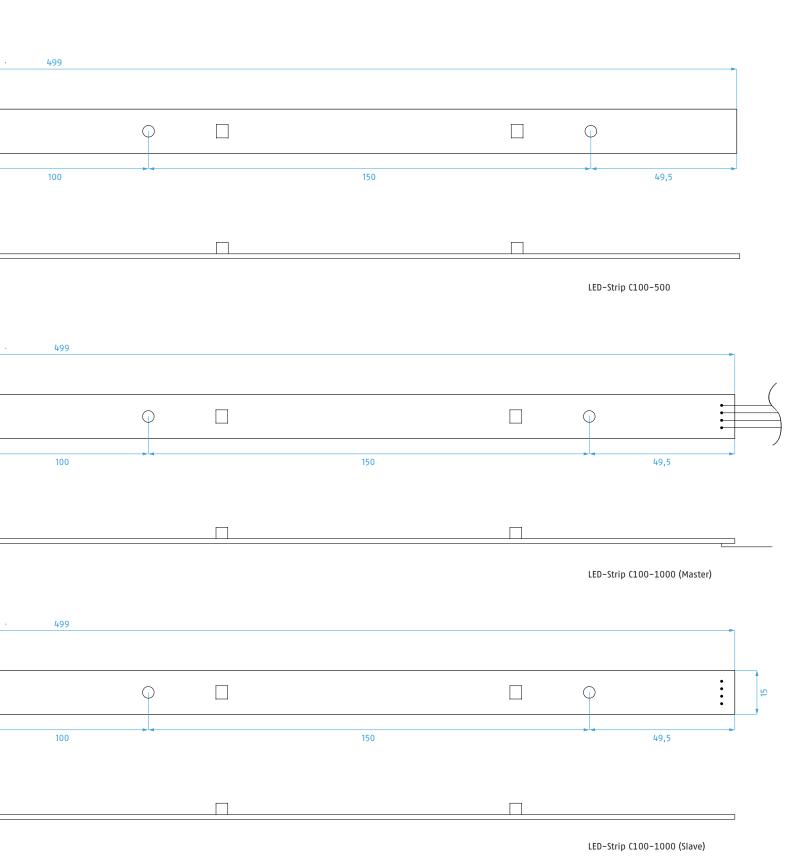


LED-Strip C100-1000 MK2.6 (Slave rear view)

CAD drawing*



^{*} without scale / all units in mm



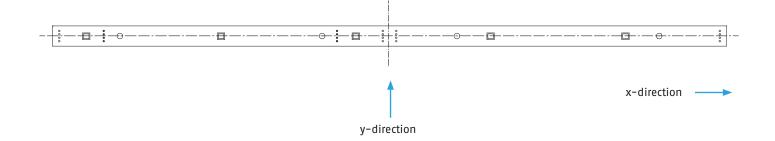
Optical data

Features	LED-Strip C100-500 MK2.6	LED-Strip C100-1000 MK2.6
Colour	RGB	RGB
Emission angle	115°	115°
Lighting current	45lm*	90lm*
Light intensity	12,5cd*	25cd*

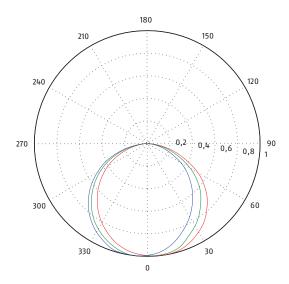
Distance/Lux table

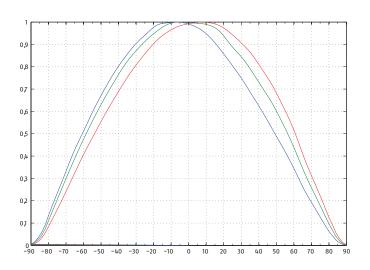
Distance	LED-Strip C100-500 MK2.6	LED-Strip C100-1000 MK2.6
0,5m	50lx*	100lx*
1m	12,5lx*	25lx*
2m	3,125lx*	6,25lx*

^{*} The data provided are measured values. As these values are subject to fluctuations, the actual values of the delivered LEDs may deviate from them. The photometric values apply to full white with RGB = 255.

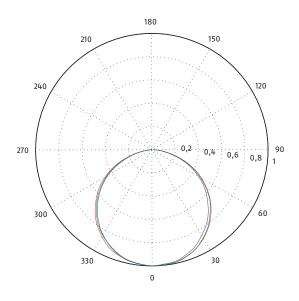


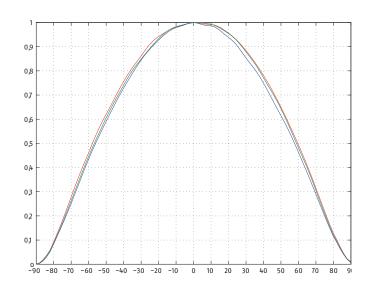
Light distribution curves, x-direction



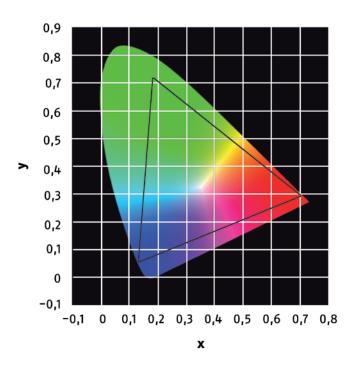


Light distribution curves, y-direction

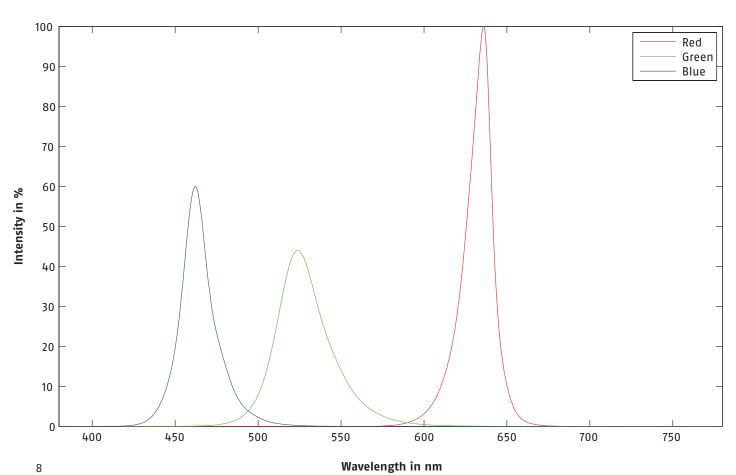




Gamut diagram

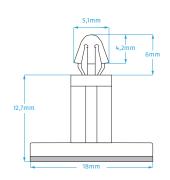


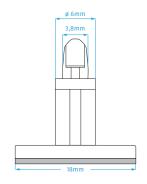
Spectral distribution

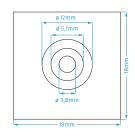


Mounting



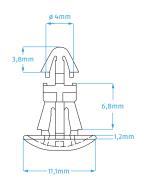


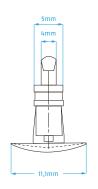


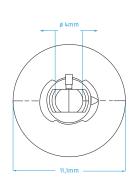


DescriptionItem numberPCB holder 12mm, self-adhesive version802.0002





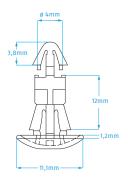


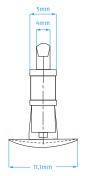


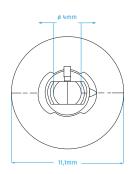
DescriptionItem numberDrill holeMaterial thicknessPCB holder 6mm, plug-in version (for plates)802.00035,4mm1,5-1,6mm





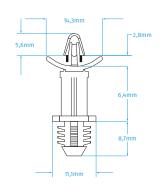


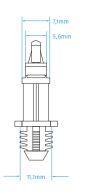


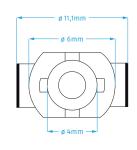


Description	Item number	Drill hole	Material thickness
PCB holder 12mm, plug-in version (for plates)	802.0004	5,4mm	1,5-1,6mm



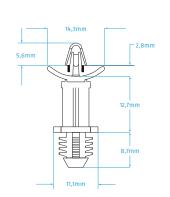


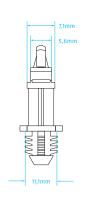


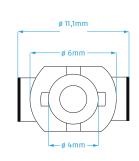


Description	Item number	Drill hole	Material thickness
PCB holder 6mm, drill version (for wood or plastic)	802.0006	7,9mm	minimum 6,4mm



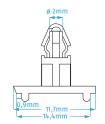


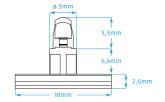


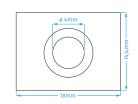


Description	Item number	Drill hole	Material thickness
PCB holder 12mm, drill version (for wood or plastic)	802.0007	7,9mm	minimum 6,4mm









Description	Item number
PCB holder 6mm, plug-in version (for click-profile)	802.0009

802.0038

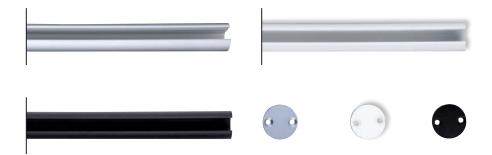
802.0039

Accessoires

Cylindrical profiles

Bracket for cylindrical profile (transparent)

Bracket for cylindrical profile (black)



Cylindrical profiles	Item number
Cylindrical profile, 2m, ø 25mm, aluminium anodised	804.2504
Cylindrical profile, 2m, ø 25mm, white	804.2505
Cylindrical profile, 2m, ø 25mm, black	804.2506
Bracket	Item number
Bracket for cylindrical profile (white)	802.0037

Covering	Item number
Covering for cylindrical profile 2m. transparent	804.2594

Item number
804.2520
804.2541
804.2551
804.2522
804.2542
804.2552
804.2523
804.2543
804.2553

Rectangular profiles



Rectangular profiles	Item number
Rectangular profile, 2m, 24mm×30mm (W×H), aluminium anodised	804.2401
Rectangular profile, 2m, 24mm×30mm, aluminium anodised, in pack of ten	804.2411
Rectangular profile, 2m, 24mm×30mm (W×H), white	804.2402
Rectangular profile, 2m, 24mm×30mm (W×H), white, in pack of ten	804.2412
Rectangular profile, 2m, 24mm×30mm (W×H), black	804.2403
Rectangular profile, 2m, 24mm×30mm (W×H), black, in pack of ten	804.2413
Brackets	Item number
Bracket for rectangular profile, 2m, plastic, black	802.0040
Bracket for rectangular profile, 2m, plastic, black, in pack of ten	802.0041
Click profile	ltem number
Click eachfile for rectangular profile, 2m, transparent	804.2492
Click eachfile for rectangular profile, 2m, in pack of ten	804.2493
Head ends	Item number
Head end aluminium anodised, 6mm, including screws	804.2431
Head end aluminium anodised, 12mm, including screws	804.2441
Head end white, lacquered, 6mm, including screws	804.2432
Head end white, lacquered, 12mm, including screws	804.2442
Head end black, lacquered, 6mm, including screws	804.2433
Head end black, lacquered, 12mm, including screws	804.2443

Special lengths and colours available upon request. For special colours please provide relevant RAL-information.

Electrical data

Features	LED-Strip C100-500 MK2.6	LED-Strip C100-1000 MK2.6
Voltage	24V	24V
Current (I _{max})	0,15A	0,3A

Pin Connection

Systemconnector red



Control options for LED-Strip C100 MK2.6

System Power Supply 4E





LED-Strip C100-500 MK2.6

DMX 512*	DPB**
maximum 136 LED-Strips per controller	maximum 160 LED-Strips per controller
maximum 34 LED-Strips per XLR output	maximum 40 LED-Strips per XLR output
maximum 20 LED-Strips per system connector red	maximum 20 LED-Strips per system connector red

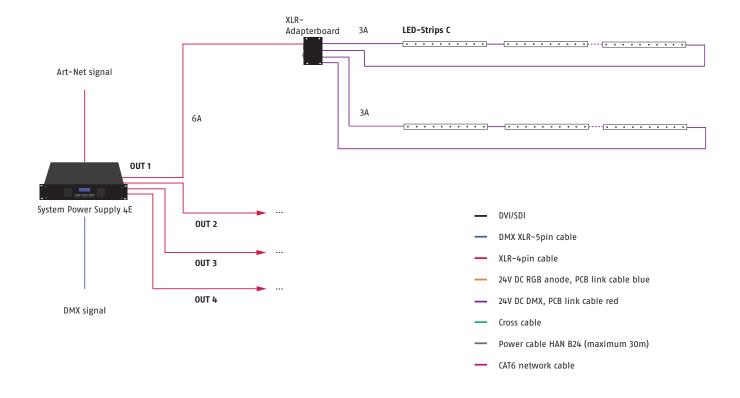
LED-Strip C100-1000 MK2.6

DMX 512*	DPB**
maximum 68 LED-Strips per controller	maximum 80 LED-Strips per controller
maximum 17 LED-Strips per XLR output	maximum 20 LED-Strips per XLR output
maximum 10 LED-Strips per system connector red	maximum 10 LED-Strips per system connector red

^{*}channel-restricted

^{**}current limited

Cabling example for System Power Supply 4E with LED-Strip C100 MK2.6



DPB Pixel-Router

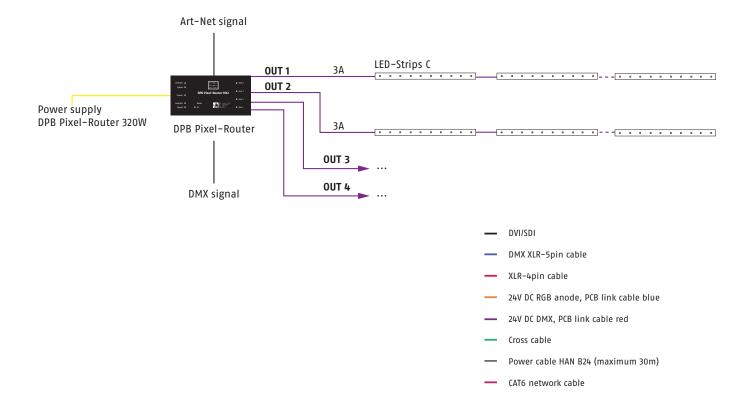


LED-Strip C100-500 MK2.6

LED-Strip C100-1000 MK2.6

maximum 80 LED-Strips per controller	maximum 40 LED-Strips per controller
maximum 20 LED–Strips per output	maximum 10 LED-Strips per output

Cabling example for DPB Pixel-Router with LED-Strips C100 MK2.6



Sys One

Specific feature: fanless operating





LED-Strip C100-500 MK2.6

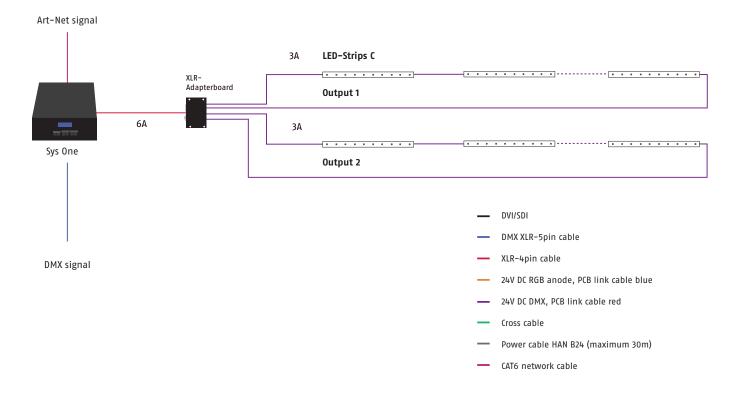
Power Data Out	DMX 512
Output XLR-4pin	maximum 34 LED-Strips per controller
Output system connector red (2 universes, wiring example page 19)	maximum 40 LED-Strips per controller
	maximum 20 LED-Strips per system connector red

LED-Strip C100-1000 MK2.6

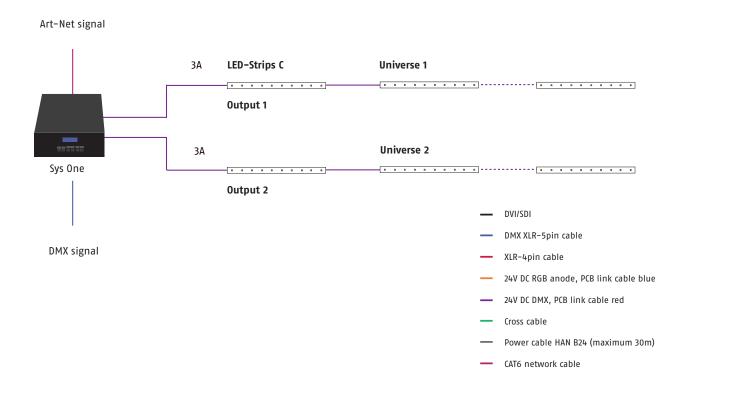
Power Data Out	DMX 512
Output XLR-4pin	maximum 17 LED-Strips per controller
Output system connector red (2 universes, wiring example page 19)	maximum 20 LED-Strips per controller
	maximum 10 LED-Strips per system connector red

Please note: connect only one output variable (XLR-4pin or System connector red)!

Cabling example for Sys One (XLR-4pin connector) with LED-Strips C100 MK2.6



Cabling example for Sys One (System connector red) with LED-Strips C100 MK2.6



70W power supply with DMX



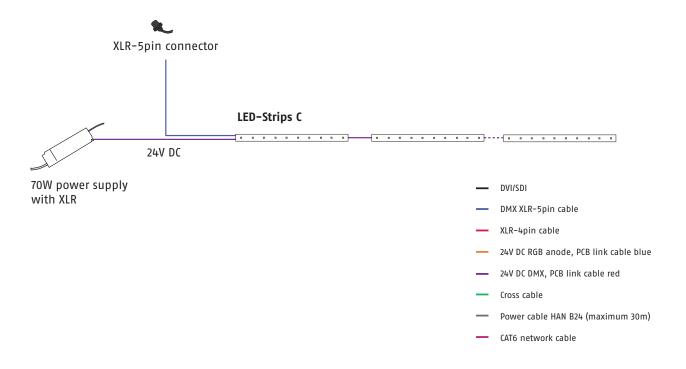
LED-Strip C100-500 MK2.6

LED-Strip C100-1000 MK2.6

maximum 20 LED-Strips per Power Supply

maximum 10 LED-Strips per Power Supply

Cabling example for 70W power supply with DMX



Order numbers

	Colour	LED-Pitch	Length	Current (I _{max})	Channels	Connection	Item number
LED-Strip C100-500 MK2.6	RGB	100mm	500mm	0,15A	15	System connector red	102.0027
LED-Strip C100-1000 MK2.6	RGB	100mm	1000mm	0,3A	30	System connector red	102.0028

	Operating voltage	Power (I _{max})	Channels	Input	Output	Item number
System Power Supply 4E	110-240V AC	4 × 6A*	4 × 3072 channels (DPB)	Ethercon RJ 45	4×XLR-4pin	203.0003
			4×512 channels (DMX)	XLR-5pol IN/Trough		
DPB Pixel-Router MK2	24V DC	4 × 3A	4×3072 channels	RJ 45	4 × System connector red	203.0021
DPB Pixel-Router POE MK2	24V DC	4 × 3A	4×3072 channels	RJ 45	4 × System connector red	203.0022
Sys One	110-240V AC	1×6A or	1×512** or	XLR-5pol IN/Trough	1×XLR-4pin	203.0007
		2 × 3A or	2 × 512**		2 × System connector red	
		2 × (3 × 1A)			2 × System connector blue	
70W Power Supply (24V DC+DMX)	220-240V AC					204.0152

^{*} Note: american version only 4 × 4A at 110V

ESD warning

Please be aware that electrostatic discharges can destroy LED boards, and our experience shows that this does happen. During assembly, we recommend wearing at least one antistatic wrist strap and avoiding static discharges – such as those that arise when removing protective film or dry cleaning acrylic glass, for example– near LEDs! Antistatic materials should be used when packaging the LED boards. Normal bubble wrap or other plastic bags are not suitable.

For reasons of safety and radio shielding, please only use systems we have approved to provide a power supply for our LED components. All technical information is based on the version at the time of printing.

We reserve the right to make technical specifications in terms of a product improvement without prior notice. Printing – even excerpts – requires the written consent of Schnick–Schnack–Systems GmbH.

^{**} depending on the output configuration

Why Schnick Schnack Systems?

As installation times become increasingly shorter the complexity of systems simultaneously increases as do the requirements of customers.

We are a supplier who delivers high-quality reliable systems – under tight deadline constraints that are not only quick to install but also simple to operate and service.

Schnick-Schnack-Systems GmbH

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Version July 2017: All technical data and the weight and dimension information were carefully created – errors reserved. Any colour deviations are printing–related.

We reserve the right to make changes that serve further improvement.