



LED LINEAR & SYSTEMS LUMINAIRES

advanced systems

**STRATEGIC
LIGHTING
GROUP**
LIGHTING WITH PURPOSE



STRIPILED
TECHNICAL SPECIFICATION DATA

Strategic Lighting Group | Strategic Lighting (Europe) Limited | Narrow Lane End Works, 64 Worple Road, Epsom, Surrey KT18 7AG | England UK
Tel. +44 (0)845 241 4631 | Fax. +44 (0)845 241 4632 | Email. info@strategiclighting.com | www.strategiclighting.com

STRIPLED FLEXI

single colour & RGB - circuit controlled



Product Purpose & Meaning

- The STRIPLED *flexi* PVC 'tape' continuum is founded on its protective durable encasement and its ability to be mounted seamlessly within curved or straight line details.
- The name "STRIPLED" simply describes the products form.

Product Summary

- Flexible IP rated LED 'tape' light with quality OSRAM SMD TopLED's in superior mechanical protected polymer.
- Warm & Cool White, Single Monochromatic Colours in Royal Blue, Red, Green and Amber, plus full RGB colour change.
- Dimmable using most signal protocols.
- 3 versions - Deco & Medium Power with standard 28mm Pitch or short pitch 8.33mm for greater light intensity.
- Professional system, ideal for curved architecture.
- Using easy bulk 24Vdc remote PSU's .
- Suitable for connection to every 6 to 20 metre for mono chromatic colours [version dependent] & 10 metre for RGB run lengths.
- Cut to nearest 50 or 200mm markings. [Note: can be cut at any point except but for illumination series circuit must be intact].

Applications

- Especially Curved Architectural Details.
- Coving, Recesses, Ceiling Pelmet's & Soffits.
- Window Reveals & Frames.
- Ground Troughs & Channels.
- Backlighting • Bars • Shelving • Glass.
- Curved Furniture Recesses & Reception Desks.
- Ballustrading. / Signage.

Performance

Lamp Type	approx.0.1W mono / 0.2W RGB
LED Qty	Deco 35 per metre [7 per 200mm section] Med - Std Pitch = 35 per metre Med - Short Pitch = 120 per metre
Lamp Source	OSRAM SMD Signal TopLED / Duris
Lumen Output	Deco - 33/58lms/Watt [Warm/Cool White] Med.Power - 91/102lms/W [Warm/Cool]
Lamp CRI	see nm range for colours
Colour Quality	Binning to 1 MacAdam Ellipse - 100K
LED Life	20.000hrs plus.
Optic Beams	Wide 110° / 120°,
LED Colours	All

Electrical Data

Voltage	24Vdc input
Load Watt	approx.3.5W mono / 6W RGB per metre
Load Current	100mA
Remote Gear	24Vdc Power Supply Unit [PSU]
Configuration	CV [Constant Voltage] PCB on board CC [current controller]
Control	Dimming & Control via Interface Output. [Interface required]
Data Protocol(s)	DALI, 0-10V & DMX 512

Connection Diagram 6.1 & 6.2

- Connection is for CV - Constant Voltage for use with remote 24Vdc PSU. See Connection Diagrams over page .



Colour Consistency :
1 MacAdam Ellipse <100K

IP68

IP66

Description

A professional OSRAM TopLED™ or Medium Power Duris™ based flexible strip LED 'tape' continuum benefitting superior durable protective encasement to IP66. [The Strategic Lighting Group will not warrant or support bare LED tape systems due to dust entrapment & fire hazard.] Stripled Flexi uses the latest SMD high output OSRAM LED's for lighting 'throws' at *0.5 - 1.0metre in mono and *1 - 2 metre's in RGB Deco version or *doubling of throw distances for Medium Power versions. [*depending on visual ambient levels]. 3.5W to 9.6W or less per metre for single monochromatic colours including warm & cool whites and 6W full colour RGB option. Made for quick & easy connection and cable clip mounting or fitment into U-channel profile. Stripled is flexible with a good bend radi to 30mm which can typically negotiate 90° bend details. Remote safe 24Vdc powering. Ideal for internal & external applications. Wide range of accessories.

Construction & Finishes

- Engineered PVC polymer continuum in white & clear.
- Extruded with PCB in-layed and sealed to IP67 .
- Standard End joints to IP65 or Cast Resin Joint to IP68.

Main Features

- Benefits long string lengths of 20 metre runs with 1 power feed [10 metres for RGB].
[thereafter new parallel power joint connection required].
 - MacAdam colour consistency to 1 Ellipse - 100K.
 - Bulk 30 metre+ remote 24Vdc PSU powering.
 - Easy quick Install .
- Dimming via any protocol language .
 - High quality known OSRAM LED.
- Curved & irregular shaped installations possible.
 - Flexible tight bend radi to 30mm.

Mounting

- Mounting is via screw fixed "Saddle Clips" with nylon pulls or a "U-profile" clipping channel.
- Core Connectors : 2-core mono with Live [Red] & Neutral [Black] power feeds. RGB with 4 core where RGB acts as the -VE negative neutral terminal. [All cables in power, meaning dimming & load through an interface with PWM [pulse width modulation]

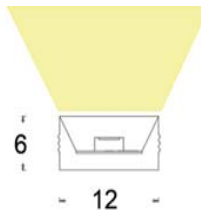
Standard Colours

- Extra Warm White - 2700K - CRI = 90%
- Warm White - 3000K - CRI = 90%
- Intmd White - 4000K - CRI = 85%
- Cool White - 6500K - CRI = 80%
- Royal Blue - 469nm
- Red - 617nm
- Green - 525nm
- Amber - 587nm

- RGB Full Colour Change -DMX 512



Front -emitting this page



Compare :
Side-emitting version on Page 128.
Curves / bends in other plane.

DecoLED - OSRAM TopLED - *127lm/M Version

IP66 Deco OSRAM TopLED™ version 120° beam, typically 3.5W - 127lms per metre, max. connection length 20metres [RGB - 10metres], Pitch 28mm [Can be cut every 200mm].

STR.11601.3	Warm White	3000K	3.5W/m -109lm/m	No Optic - 120°
STR.11601.4	Intmd. White	4000K	3.5W/m -109lm/m	No Optic - 120°
STR.11607.6	Cool White	6500K	2.2W/m -127lm/m	No Optic - 120°
STR.11608.B	Blue	460nm	0.8W/m - 13lm/m	No Optic - 120°
STR.11604.R	Red	620nm	3.3W/m - 36lm/m	No Optic - 120°
STR.11608.G	Green	530nm	2.5W/m - 111lm/m	No Optic - 120°
STR.11603.A	Amber	600nm	1.5W/m - 14lm/m	No Optic - 120°
STL.11602.RGB	RGB	DMX512	6W -	No Optic - 120°

Note: RGB on White full power produces 121lms / metre. [Red 36lm/m - Green 78lm/m - Blue 7lm/m]

Med.PowerLED [Std. Pitch 28mm-*4.3W/metre] - OSRAM Duris E5 - 420lm/M Version

IP66 Medium Power OSRAM Duris™ E5 version 120° beam, typically 4.1W - 420lms per metre, max. connection length 10metres, Pitch 28mm [Can be cut every 200mm].

STR.11598.2	Extra Warm White	2700K	4.6W/m -420lm/m	No Optic - 120°
STR.11600.3	Warm White	3000K	4.3W/m -420lm/m	No Optic - 120°
STR.11599.4	Intmd. White	4000K	4.1W/m -420lm/m	No Optic - 120°
STR.11609.6	Cool White	6500K	4.1W/m -420lm/m	No Optic - 120°

Med.PowerLED [Short Pitch 8.33mm-9.6W/metre] - OSRAM Duris E3 - *846lm/M Version

IP66 Medium Power OSRAM Duris™ E3 version 110° beam, typically 9.7W - 846lms per metre, max. connection length 6metres, Pitch 8.33mm [Can be cut every 50mm].

STR.11598.2	Extra Warm White	2700K	9.7W/m -780lm/m	No Optic - 110°
STR.11600.3	Warm White	3000K	9.7W/m -780lm/m	No Optic - 110°
STR.11599.4	Intmd. White	4000K	9.7W/m -846nm/m	No Optic - 110°
STR.11609.6	Cool White	6500K	9.7W/m -846lm/m	No Optic - 110°

Accessories

Link Plug Cable Connectors

This is the main lead connector on to the system, supplied with special 'start' plug and end cap.

STL.11786.1	Mono	Connector	1 metre length	2-core
STL.11788.5	Mono	Connector	5 metre length	2-core
STL.11745.1	RGB	Connector	1 metre length	4-core
STL.11746.5	RGB	Connector	5 metre length	4-core

IP68 Cast Exterior Connector

An IP68 resin start connector for all professional exterior .use and in high humidity internally.

STL.11533.CJ	Mono & RGB	Resin Connector	L71 x W28 x H35mm	Kit Pack
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Comprises : Polycarbonate clear shell with 2 part resin pour . For Stripled Lini profile 6 x 12mm.

U-Profile Mounting Channel

A useful channel system for clipping in and mounting the strip.

STL.11369.U	Mono & RGB	Mounting Groove	1 metre length	W18 x H7.5mm
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Ridgid PVC channel grips Strip 6 x 12mm profile clipping entire length. Sticky back, resin glue or screw fix mounting.

Saddle Mounting Clips

Supplied in packs of 25pcs, saddle clips can be screw fixed and the channel clipped on nylon pulls.

STL.11375.C	Mono & RGB	Mounting Clip	Pack of 25	W23 x L16 x H10mm
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Ridgid PVC channel clip for 6 x 12mm profile. Supplied with Tie wrap for restraint and fixing screw. .

STRIPLED FLEXI

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120°
No Optic



RGB full
colour change



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single colour & RGB - circuit controlled

Accessories



Extension / Right Angle 90deg. Connectors

A 260mm cabled extension piece with starter plug at each end, ideal for corners or obstacles.

STL.11792.X	Mono Extension	Connector	260mm length	2-core
STL.11748.X	RGB Extension	Connector	260mm length	4-core



20mm & 40mm Aluminium Opal Marker Channel

20mm & 40mm visible frosted [opal & clear on request] acrylic covered profile channels.

STL.12805.MC	Mono & RGB	24mm Profile	2 metre length	W24 x D51mm
STL.12806.MC	Mono & RGB	24mm Profile	3 metre length	W24 x D51mm
STL.12820.MC	Mono & RGB	44mm Profile	2 metre length	W44 x D51mm
STL.12821.MC	Mono & RGB	44mm Profile	3 metre length	W44 x D51mm



Multisystem Interfaces

ARC.DMX	for control via	DMX / 0-10V signal	Circuit Dimmable
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1-10V Control Interfaces

OTDIM.1-10V-120	mono	34 metres	120W max	Dims:L175xW42xH20
OTRGB.DIM.1-10V	RGB 2 x 10 = 20 metres		120W max	Dims:L175xW42xH20

DALI Control Interfaces

OTDALI.DIM50	mono	14 metres	50W max	Dims:L175xW42xH20
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DMX Control Interfaces

INT.OTDMX348	mono 3 x 13= 39 metres	3 x 48W max	Dims:L150xW150xH20
INT.OTDMX348	RGB 24 metres	3 x 48W RGB max	Dims:L150xW150xH20
INT.OTDMX360	mono 3 x 17= 51 metres	3 x 60W max	Dims:L172xW42xH20
INT.OTDMX360	RGB 30 metres	3 x 60W RGB max	Dims:L172xW42xH20



PSU - 24Vdc Power Supply Units

see appendix D - catalogue page 230 onwards



COMBO PSU & Control RGB DMX / MONO 0-10V Dimming

STR.11853PSU	mono	30m / RGB 20m	120W max 108Va Load	Dims:L300xW300xH155
STR.11854PSU	mono	65m / RGB 40m	240W 216Va Load	Dims:L300xW300xH155
STR.11855PSU	mono	130m / RGB 80m	480W 432Va Load	Dims:L300xW300xH155

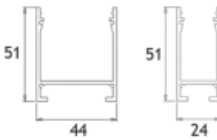
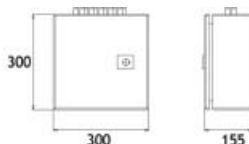


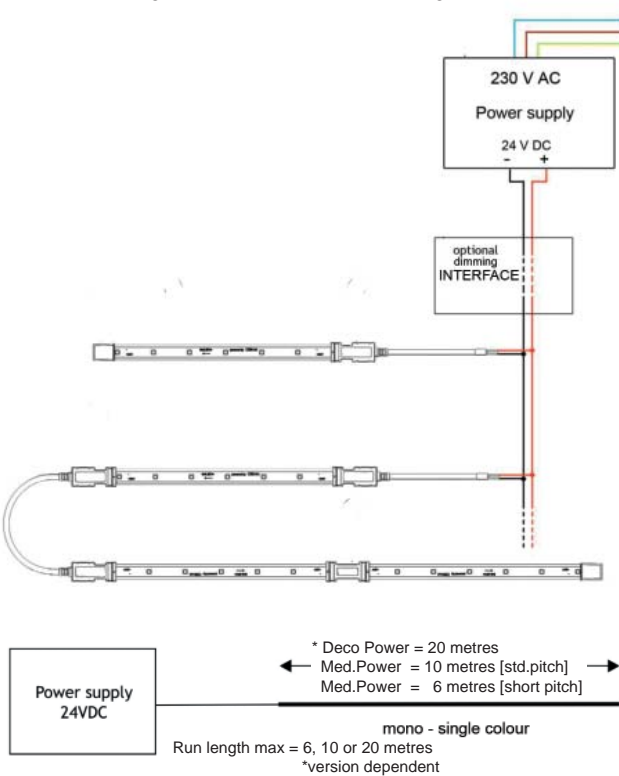
Image Project : Private Residential Dropped Kitchen Ceiling



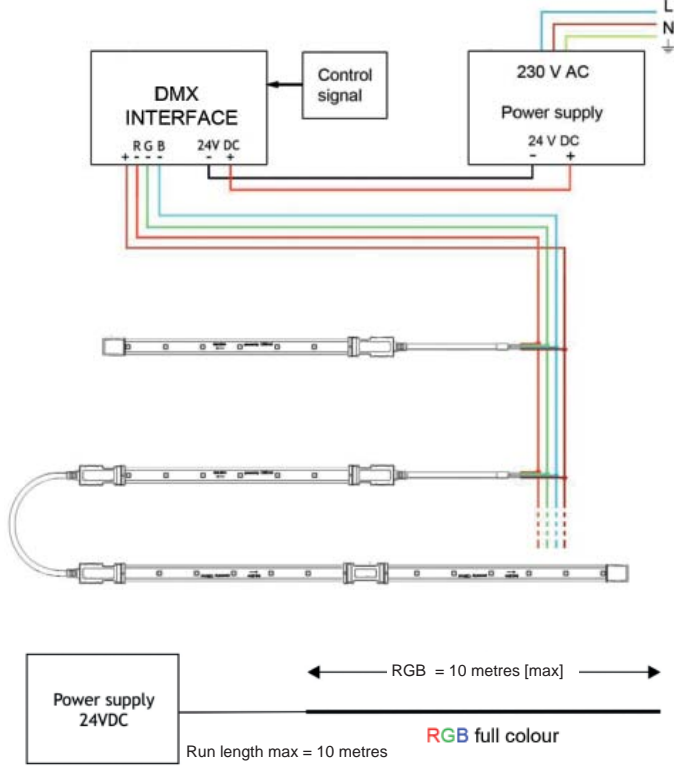
Eye Candy Interiors : By Suzie Greenwood



6.1 Mono Single Colour Connection Diagram



6.2 RGB Full Colour Connection Diagram



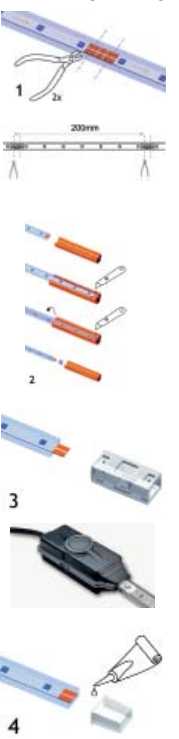
* Deco Power = 20 metres
Med.Power = 10 metres [std.pitch]
Med.Power = 6 metres [short pitch]
Run length max = 6, 10 or 20 metres
*version dependent

Run length max = 10 metres



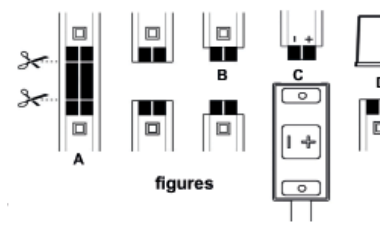
Colour Consistency :
1 MacAdam Ellipse <100K

Mounting, Design & Layout Guide



- 1) Uniformity
The uniformity is assured & set by the manufacturing.
- 2) Pitch & Board Spacing
The standard LED pitch spacing is 28mm for both mono & RGB profile strings or 8.3mm on Short Pitch version).
- 3) Planning Layout
Since the 'string' produces good uniformity and a halo/throw of light from 300mm to 2.5m the string may be placed directly or within 50 to 200mm of the surface to be lit.
- 4) Length of string in series.
A maximum amperage capacitance is built into the 'string' before a new joint-connector & parallel feed from the PSU is required. This is 20 metres for single colour monochrome versions & 10 metres for RGB full colour, 10metres for standard pitch Medium PowerLEDs. or 6metres for short pitch Medium PowerLED's.
- 5) Power Connection
The boards are powered by Constant Voltage meaning the current controllers are already mounted on the PCB's. The PSU & direct 24V power feed can be attached straight to the string. See Diagram 6.1 and 6.2.

Figure 7.1 String Cutting & Stripping

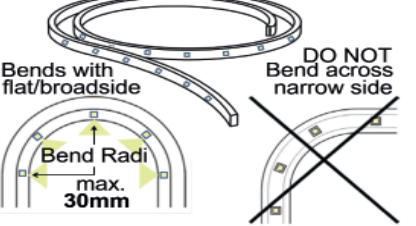


STRIPILED FLEXI

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- important note : The strings are power directional.The PSU should input at the correct end.The installer is advised to follow the arrows of direction on the string to save time. Short-circuit protection is built in. All LEDs showing at RED is proof of the +ve & -ve terminals the wrong way round.
- 6) Control
Colour change is via DMX protocol .Dimming is normally via DALI or 1-10V interfaces. The interfaces provide a dimmed on/off PWM signal direct to the line voltage inputs on the 'string'. A master controller or signal generator can be supplied on request.
 - 7) Voltage Drop
Volt drop issues are always of concern with LED installations. Using 2.5mm² core cables the PSU's must be within 30 metres of the strip start.
 - 8) Mounting
The 'string' can be mounted via saddle clips [screw fixed] or a U-profile channel exists which clips its entire length. The 'string' only bends in one orientation across its narrow side. See Figure 7.2 below.

Figure 7.2 Bend Radi & Orientation



This Mounting Guide applies to both STRIPILED FLEXI & SIDELED FLEXI products.



Project : Holiday Inn - Eindhoven

The Connection Diagrams apply to both STRIPILED FLEXI & SIDELED FLEXI products.



Project : T-Mobile Retail Network - European Wide

Colour Consistency :
1 MacAdam Ellipse <100K

LINEAR LED FLEXIBLE CONTINUOUS

STRIPLED FLEXI
single colour & RGB - circuit controlled



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LED LINEAR SYSTEMS

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NEON TYPE

MONO - 5W

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RGB - 5W-11W

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NEON LEDLINE - mono

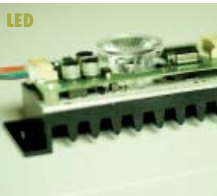


NEON LEDLINE - RGB

LINKS & CHAINS

POWERLED

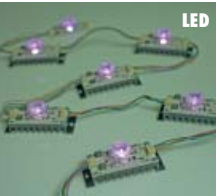
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ARCHILED LINKS - Chaser

RGB - 5.3W

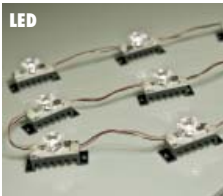
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ARCHILED LINKS - RGB

MONO - 3W

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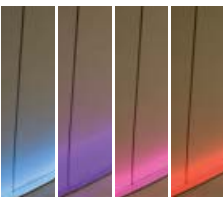
ARCHILED LINKS - mono

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MUSEUMS

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GROUND RECESSES

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ATRIA & STAIRWELLS

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FOOTBRIDGES

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FASCIAS

TUBULAR

Page 134 SIGNAL*1WPOWER



SCORRENTE

Page 103 LED - 20W/m



AMBIENTALE

FLEXIBLE CONTINUOUS

Page 123 3.5W MONO



STRIPLED FLEXI - mono

Page 123 6W - RGB



STRIPLED FLEXI - RGB

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SIDELED mono & RGB

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GLASS SHELVING

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BAR

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LANDSCAPE

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CEILING ALCOVES

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RGB COLOUR CHANGE

IN-GROUND MARKER

Page 139 3.5W MONO



XACOTO

Page 141 6W - RGB



AIRPORT FLOORING