



Konnekt Twist

Why specify Konnekt Twist

Konnekt Twist is a low-voltage power delivery system that provides a flexible, reliable way of integrating LED lighting and digital enhancements into shelving displays. Konnekt Twist is engineered to operate using secure twist-lock connectors to ensure that luminaires deliver flawless, consistent illumination across any products on display. It can be supplied with both rebated and surface-mounted power tracks to blend seamlessly into the back panels of merchandising systems.

Key features



Quick
turnaround
times



Custom
design
service



Cost-
effective
installation



Various
fixing
methods



Retro Fit



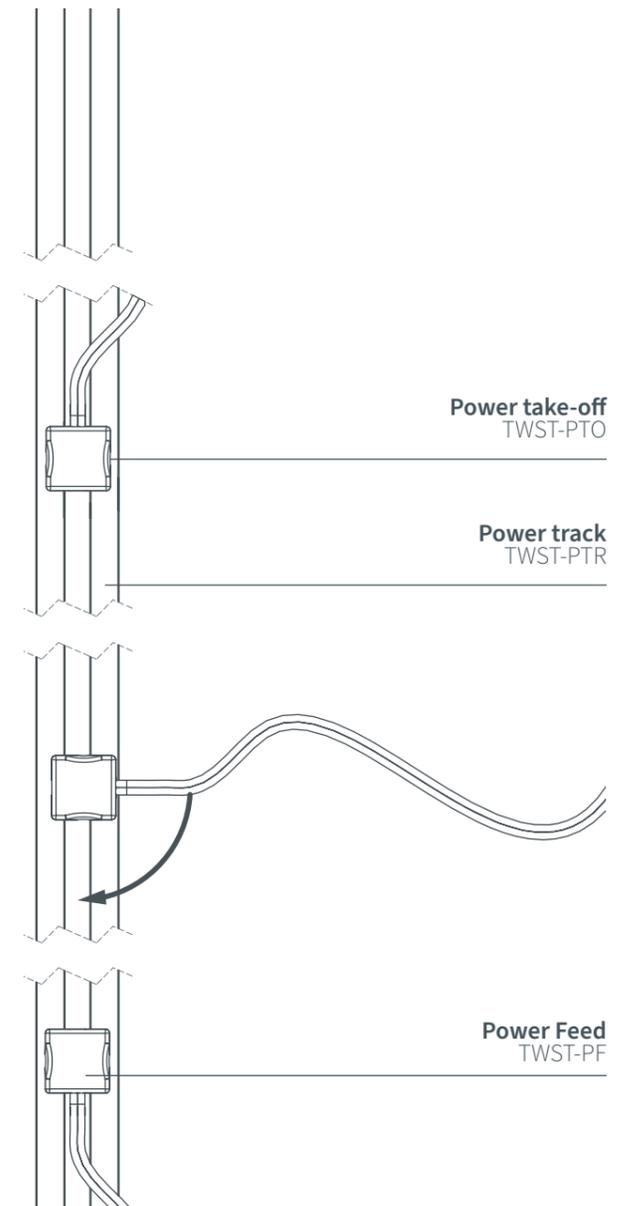
Reconfigurable

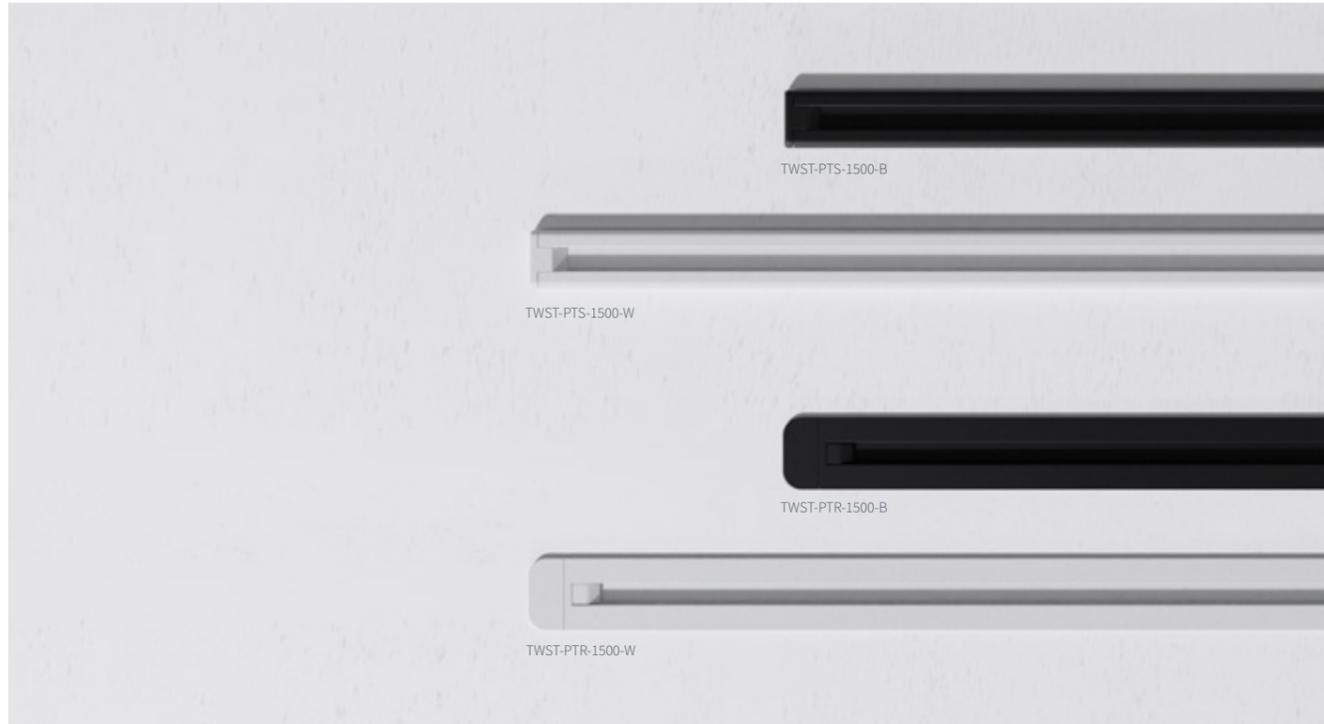


Recess-
mount



Surface-
mount



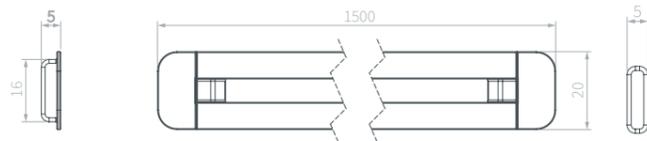


Power track

Twist power track recessed - TWST-PTR

Available in black and white

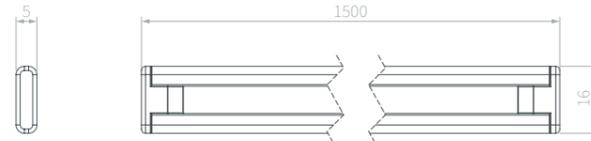
Konnekt **Twist recessed** features a slim-line power track made from extruded ABS plastic with integrated copper busbar tracks with an 10-amp rating. It is supplied with push fit ABS end caps. The housing can be bonded or mechanically fixed into a multitude of substrates.



Twist power track surface - TWST-PTS

Available in black and white

Konnekt **Twist surface-mounted** features a slim-line power track made from extruded ABS plastic with integrated copper busbar tracks with an 10-amp rating. It is supplied with push fit ABS end caps. The housing can be bonded or mechanically fixed onto a multitude of substrates.



| Track Ref. | Rated Voltage | Rated Current (Track) | Colour | Max Continuous Track Length |
|------------|---------------|-----------------------|--------|-----------------------------|
| TWST-PTR-W | 12/24V | 10AMP | Black | 1500mm |
| TWST-PTR-B | 12/24V | 10AMP | White | 1500mm |

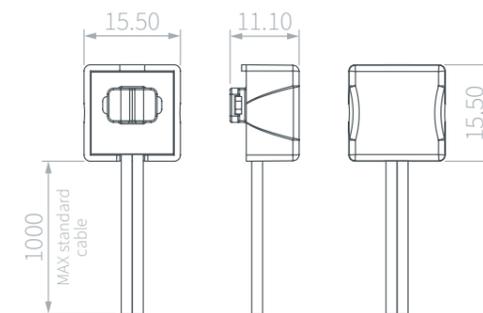
| Track Ref. | Rated Voltage | Rated Current (Track) | Colour | Max Continuous Track Length |
|------------|---------------|-----------------------|--------|-----------------------------|
| TWST-PTS-W | 12/24V | 10AMP | Black | 1500mm |
| TWST-PTS-B | 12/24V | 10AMP | White | 1500mm |

Connectors

Twist power Feed - TWST-PF

Available in black and white

Konnekt Twist power feed connector with a rating of 8-amps is attached electrically to the low voltage power track, by inserting the connector into the track and rotating it through 90 degrees.

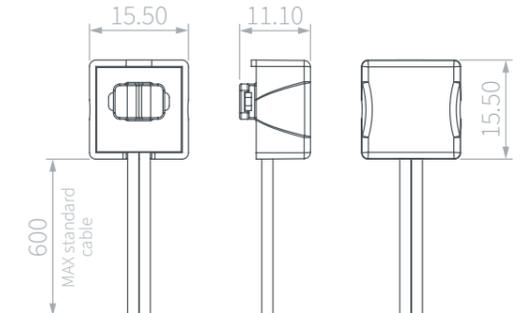


| Powerfeed Ref. | Connector rating | Cable length (mm) | Colour |
|----------------|------------------|-------------------|--------|
| TWST-PF-W | 8AMP | 600 | White |
| TWST-PF-B | 8AMP | 600 | Black |

Twist power take off - TWST-PTO

Available in black and white

Konnekt Twist power take-off connector with a rating of 3-amps is attached electrically to the low voltage track by inserting the connector into the track and rotating it through 90 degrees. Magnetic adjustable clips along cable for easy cable management.

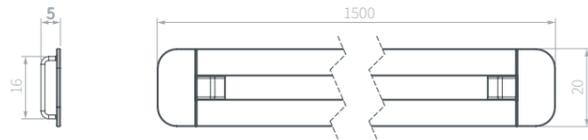


| Power take off Ref. | Connector Rating | Cable Length (mm) | Colour |
|---------------------|------------------|-------------------|--------|
| TWST-PTO-W | 3AMP | 600 | White |
| TWST-PTO-B | 3AMP | 600 | Black |

Konnekt Twist Installation

Basic equipment

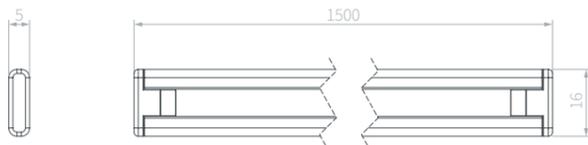
A - Twist power track recessed - TWST-PTR



TWIST-PTR Rebate Detail (A)



B - Twist power track surface - TWST-PTS



C - Power Feed / Power Supply - TWST-PF



D - Power Take-off / Luminaire - TWST-PTO



Installation of power track is dependant on substrate material. For joinery fitting we recommend screw fixing, for other substrates we recommend either magnetic tape or double sided VHB tape.

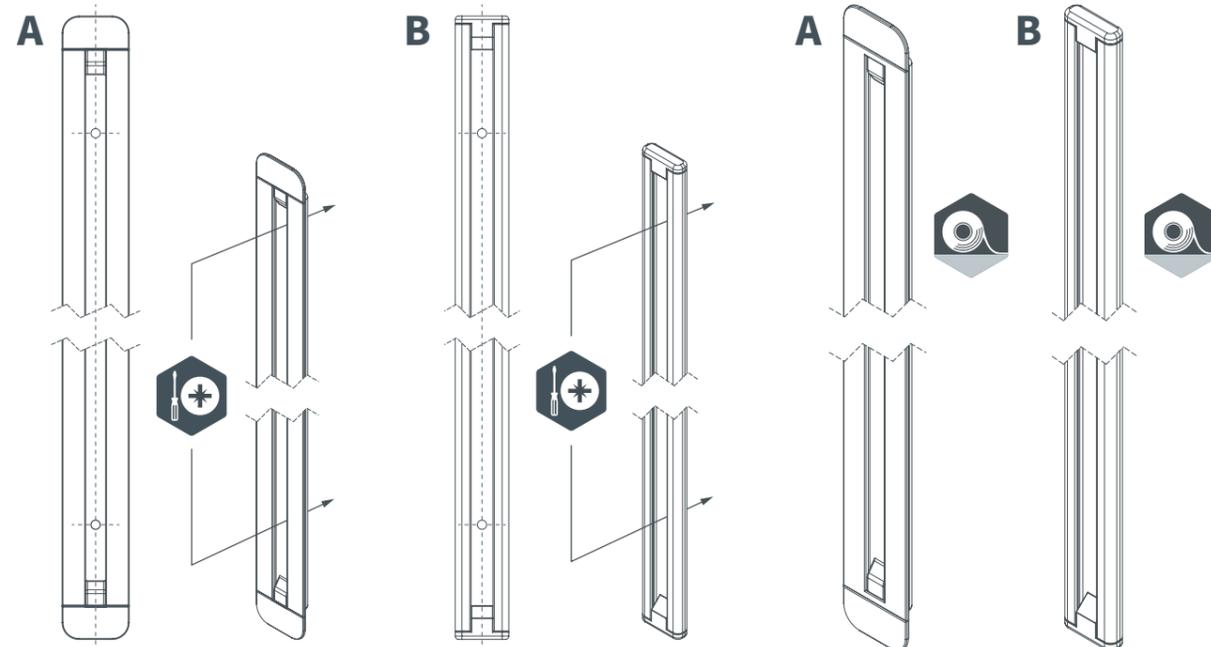
1 Joinery fixing. Track comes with pre drilled holes and either end and the centre. If more fixing holes required use 3mm drill bit through centre of rear face.

B: Place power track on surface in required position, check track is level, then mark holes. Remove track drill pilot holes 2mmØ at marked points - then fix track in place.

2 Alternatively for other substrates apply VHB/magnetic tape full length to the rear of the power track.

A: Place into rebate press firmly down along the full length.
B: Using a level install track in required position - press firmly down along the full length.

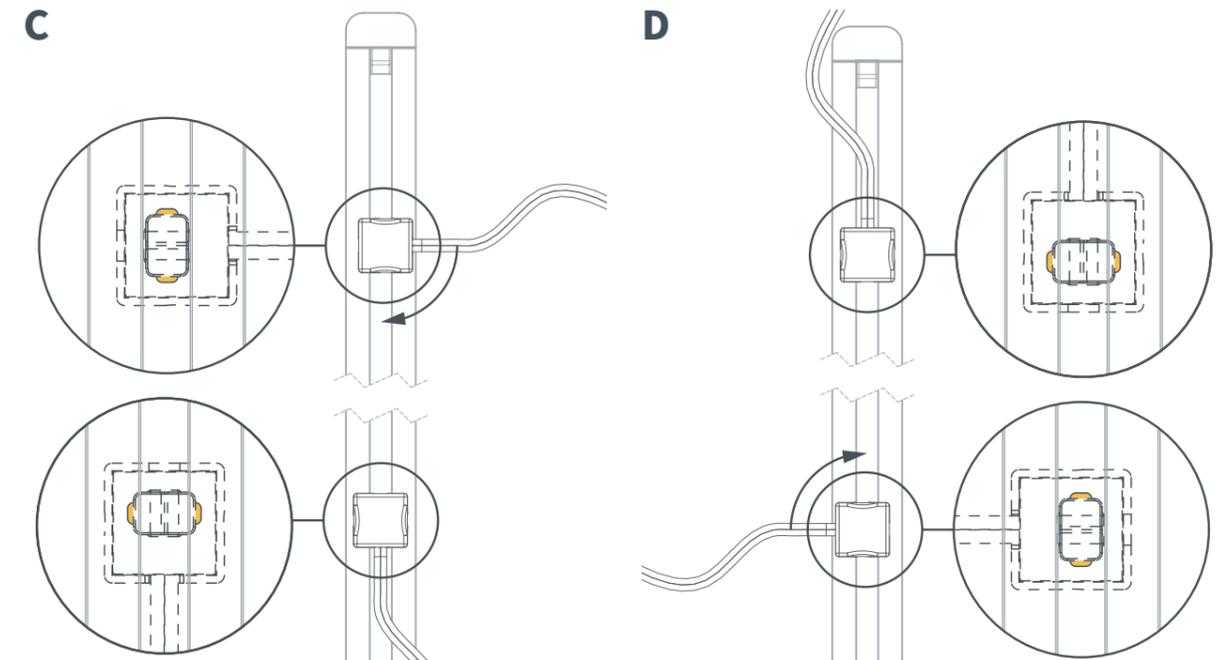
A: Sink into rebate mark hole positions drill pilot hole and screw in place.



Power feed & power take off connect the same on each style track. Please see below.

3 Position power supply in suitable location.
Insert connector into track with wire perpendicular to track side. Turn through 90° this should site connector into track. To remove connector pull gently towards you, then turn through 90° until wire is again perpendicular to track.

4 Power take off are inserted into the track as per the power feed. But in the opposite orientation.



5 Connect mains feed everything should now illuminate. If no illumination check the following:

- Check all mains connectors. (Turn off mains first)
- Check all Twist connectors are fully turned through 90°
- Check connectors are in correct orientation.

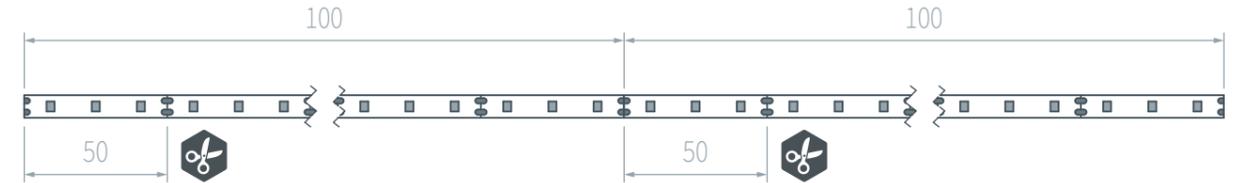
If problems continue please contact Unibox directly by emailing sales@unibox.co.uk or phoning 0161 655 2100.



Choosing your power supply

Before calculating driver requirements for Konnekt, first consider the potential wattage requirements per upright.

For example, a luminaire 24v 9.6w/m LED tape(which has a wattage requirement of 9.6 per meter). The power requirements for this tape can be calculated using the following equation:



WATTS x LENGTH = TOTAL POWER
 $9.6w \times 2m = 19.2W$

Please get in touch for our range of flexible LED modules that are available as standard and for their respective wattage per meter (w/m).
sales@unibox.co.uk

Power Supplies & Wiring

For internal use only.

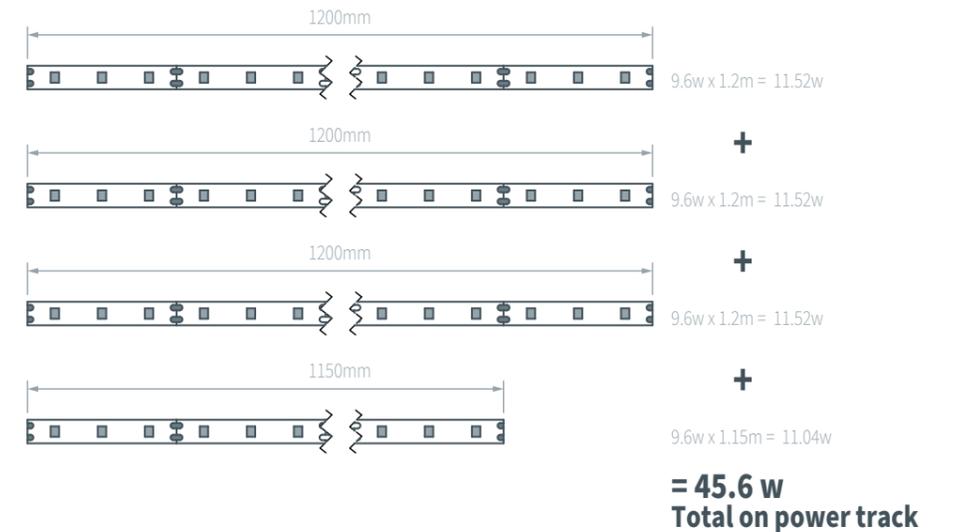


| Driver | Voltage (V) | Power |
|------------|-------------|-------|
| KD-12V-30 | 12 | 30 |
| KD-12V-60 | 12 | 60 |
| KD-12V-90 | 12 | 90 |
| KD-24V-30 | 24 | 30 |
| KD-24V-60 | 24 | 60 |
| KD-24V-90 | 24 | 90 |
| KD-24V-120 | 24 | 120 |
| KD-24V-150 | 24 | 150 |
| KD-24V-180 | 24 | 150 |

Power loading calculation example

Please note

It is vital, to always select a driver that is a higher wattage than the total amount required by the track. For example, a track using 48w would need a driver of 60w or higher (see diagram). Selecting a driver that does not meet the wattage requirements of the track will result in driver failure.



The equation above calculates the total amount of power (in watts) that will be required by each shelf luminaire in a 2000m bay. To calculate the total amount of power required from the power track, repeat this process for each powered item on the bay and add all of the values together.



Powering options

Lightbars

Slimline LED luminaires for retail and exhibition display systems, designed with effective illumination and ease of installation in mind.

Linear luminaires are integral to Unibox's retail and exhibition display systems, providing the integrated lighting that illuminates products and display stands.

Designed in a range of slimline aluminium profiles specifically made to effectively dissipate heat, Unibox linear luminaires can be customised to suit the product on display, from colour temperature to secondary optics to manipulate the light output.

Light boxes

Combining specially created aluminium profiles and range of graphic options - including removable tension fabric graphics and Duratrans quality photographic prints - our edge-lit, side-lit and backlit frames are designed to deliver maximum impact.

Our illuminated displays & graphics can be single or double-sided, freestanding, wall mounted, integrated, or ceiling hung, and are manufactured to custom dimensions and shapes. Helping to maintain brand consistency, our illuminated graphics can also be powder coated, plated, and custom-finished (including wood/stone/graphic finishes directly to the aluminium - contact us for more info) to your precise requirements. With in-house technical design and manufacturing facilities, we're the UK's leading supplier of illuminated graphics.

Key Design Considerations - For Lightboxes Powered by Konnekt

- Size limitations 150w max. (get in touch for more details)
- Various depth frames.
- 24v & 12v Options (Voltage must match power supply.)

LED signage

Unibox are specialists in LED lighting, which when combined with our expertise in graphic display, creates some truly eye-catching LED signage solutions. Utilising our in-house manufacturing skills, we provide two different signage options, that are designed to perfectly match your (or your clients) branding.

Neonist is our modern alternative to neon, created using LED illumination and advanced manufacturing techniques which result in high impact signs without the complications (or risks!) that neon is infamous for.

Kontour, our latest LED signage innovation, utilises laser-cut acrylic made custom to your design or font, mounted within almost any housing or display. Kontour benefits from advanced LED illumination, with a custom-coloured edge lit panel.

Light panels

Light panels are core to Unibox's lighting and graphic display solutions, providing a slimline method of illumination with consistent lighting that can be combined with Unibox LED Lightboxes and multiple other products.

A bespoke, high-quality LED light engine illuminates a dot-matrix patterned light guide plate, produced on our in-house laser-etching machine. The pattern, algorithmically calculated by panel size, creates an even distribution of light across the panel.

Digital screens

Digital screens can be incorporated into shelving systems using power delivery systems to create a visually dynamic displays that are optimised to capture the attention of passers-by. They enable branded messages, product information and video content to be shown directly alongside physical merchandise without requiring complex networks of unsightly cables.

5V charging

Voltage converters can be connected to power delivery systems to facilitate the charging of a wide range of electrical devices such as phones and tablets. Integrating charging capabilities directly into retail display units means there is no need for unsightly extension cables or additional mains access points.

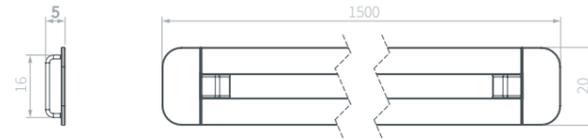
For more information or literature about powering options.

Please contact Unibox directly by emailing sales@unibox.co.uk or phoning 0161 655 2100).

How to order

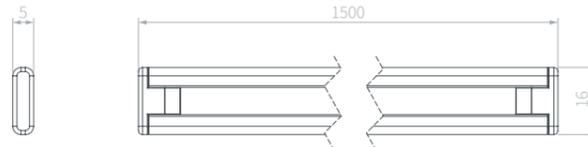
Power track

Power track recessed TWST-PTR

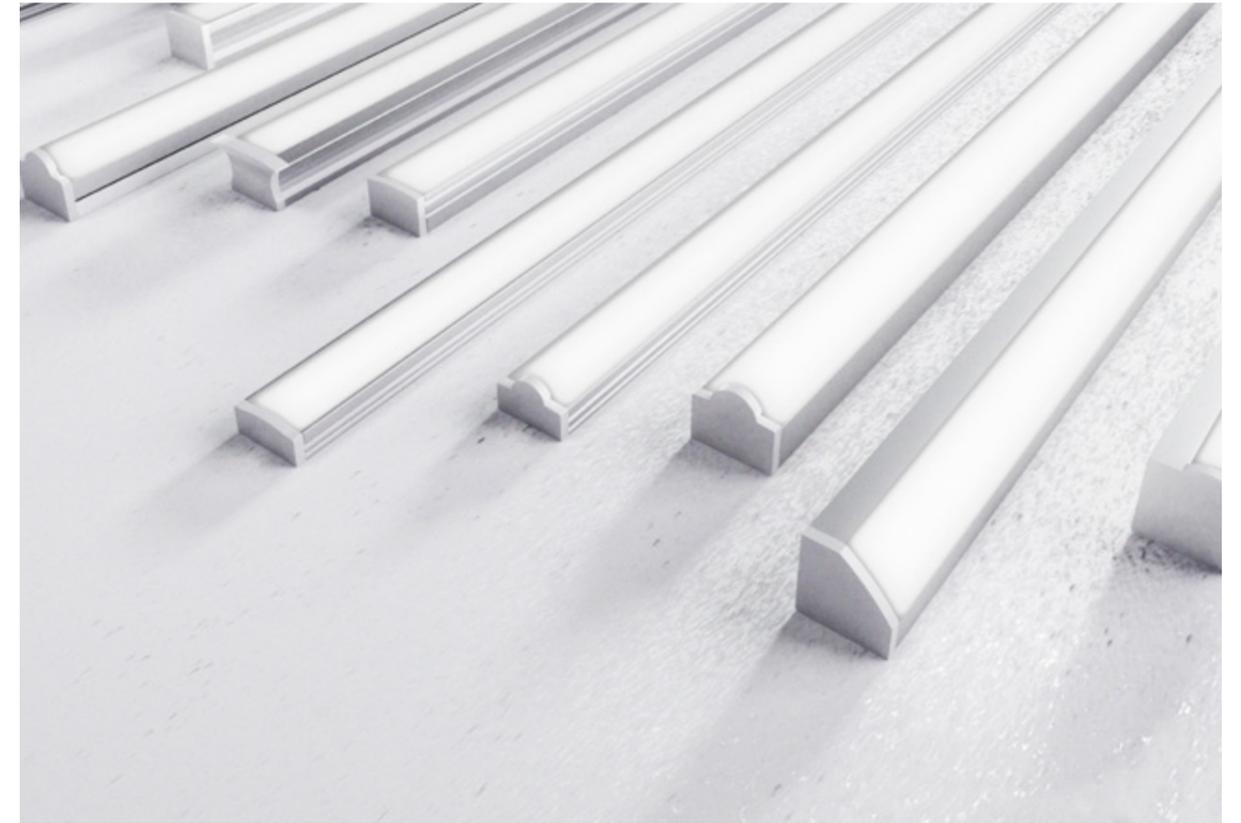


| Power Track Ref. | Track Length (mm) | Colour |
|------------------|-------------------|--------|
| TWST-PTR-1500-B | 1500 | Black |
| TWST-PTR-1500-W | 1500 | White |

Power track surface TWST-PTS



| Power Track Ref. | Cover Length (mm) | Colour |
|------------------|-------------------|--------|
| TWST-PTS-1500-B | 1000 | Black |
| TWST-PTS-1500-W | 1000 | White |

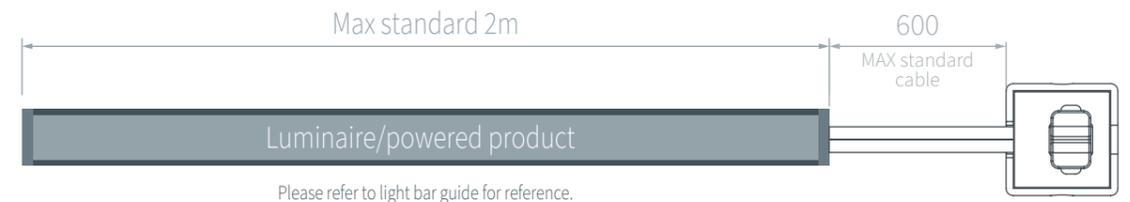


Luminaires

Choose from profile size, shape or function from our light bar guide with diffuser type (clear, semi, fully frosted or coloured lenses). Our aluminium profiles are anodized satin silver with a full range of RAL colours available on request. We have designed & manufactured a range

of slimline aluminium profiles specifically made to effectively dissipate heat. There is a selection of standard fixing elements, end caps and diffusers available for all solutions.

Please get in touch with a member of our sales team for our lightbar product guide by [emailing sales@unibox.co.uk](mailto:sales@unibox.co.uk) or **phoning 0161 655 2100**.



| | | | | | | | | | | | |
|-----------------|---------------------------|---|---------------------|---|----------------------------|---|--|---|-----------------------------|---|-----------------------------------|
| Example: | Light bar ref. UA00000 | / | Diffuser type SF | / | Connector type TWST-PTO | / | Connector colour Black (B) White (W) B | / | LED code LT-4000-14.4-24 | / | Length (mm) inc. end caps 1215 |
|-----------------|---------------------------|---|---------------------|---|----------------------------|---|--|---|-----------------------------|---|-----------------------------------|

UA00000/SF/TWST-PTO/B/LT-4000-14.4-24/1215

For light bar and LED references please see our light bar product guide.
For more details on fixing methods, RAL colours and alternative light engines please get in touch.



Power supplies

To specify the correct power supply for your project please ensure your driver wattage is greater than the wattage requirement of the powered equipment. **If unsure please get in touch sales@unibox.co.uk.**



| Driver | Voltage (V) | Power |
|------------|-------------|-------|
| KD-12V-30 | 12 | 30 |
| KD-12V-60 | 12 | 60 |
| KD-12V-90 | 12 | 90 |
| KD-24V-30 | 24 | 30 |
| KD-24V-60 | 24 | 60 |
| KD-24V-90 | 24 | 90 |
| KD-24V-120 | 24 | 120 |
| KD-24V-150 | 24 | 150 |
| KD-24V-180 | 24 | 150 |

| | | | | | | | |
|-----------------|----------------------------------|---|-----------------------------|---|--|---|----------------------------|
| Example: | Driver ref. KD-24V-150 | / | Connector TWST-PF | / | Connector colour Black (B) White (W) B | / | Cable length 500 |
|-----------------|----------------------------------|---|-----------------------------|---|--|---|----------------------------|

KD-24V-150/TWST-PF/B/500

Get In Touch

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