

LiteRail Integrated Lighting Bar



LiteRail Integrated Lighting Bar is the ideal solution for mounting entertainment lighting fixtures. It provides the rigging pipe to mount the fixtures and integrates the distribution of services to the lights in a sleek package.

LiteRail is primarily designed for modern lighting rigs in school venues, studios, churches and small theatres where LED and smaller moving light fixtures can be provided DMX data and hot power with minimal external cabling.



It can be customised for many different applications to provide distribution of other services such as dimmer circuits, ethernet, video and audio.



GENERAL SPECIFICATIONS:

- Aluminium profile provides structural support, wiring containment and flexible mounting options.
- Lighting bars of any length are factory wired from sections up to 4m each. The complete bar is assembled on site using basic tools with no onsite wiring required.
- Extrusion profile suits standard 50mmØ half-couplers and clamps.
- T-Slot top and bottom for suspension brackets, joiners, accessories and fixed equipment mounting such as speakers.
- Mitred corners can be used to make pipe grids or custom layouts while maintaining continuous cable ducts.
- Dual wiring ducts for segregation of low voltage (LV; i.e. mains power) and extra low voltage (ELV; e.g. DMX512) services in accordance with AS3000.
- Ducts are interchangeable, and both sides can be LV or ELV where required
- Supplied pre-wired with inlet plugs and cable tails (default length 2m).

	SPAN BETWEEN SUPPORTS			
	1.2m	1.8m	2.4m	3.0m
Max Distributed Load (kg/m)	100	50	20	10
Max Deflection (mm)	4	9	12	15
Max Centre Point Load (kg)	115	45	25	15

Cantilevered Loading:

- 500mm maximum cantilever past last support allows 50kg point load on cantilever (with minimum 3 suspension points along bar).



- Primarily designed for distribution of “hot power” and DMX data to multiple outlets.
- The wiring capacity is limited by the space within the duct profile for cabling and terminations. The capacities listed below are for one side of the profile, in any given section between the inlet and the outlets. More services can be accommodated if inlets are in the centre, at the ends or spaced along the bar, or if both sides of the profile are used for LV / ELV services.

ORDERING OPTIONS:

LOW VOLTAGE OPTIONS				
	Outlet Connector	Wiring	Inlet Connector	Capacity
Default	10A AU Socket	2.5mm ²	10A AU Plug	2 Circuits
15A Inlet	10A AU Socket	2.5mm ²	15A AU Plug	2 Circuits
Powercon TRUE1	Neutrik NAC3FPX-ST-TOP	2.5mm ²	Neutrik NAC3F-TRUE1-L	2 Circuits
Multicore	10A AU Socket	1.5mm ²	12-Pole Wieland	4 Circuits



DEFAULT 10AU SOCKET

POWERCON TRUE1



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EXTRA LOW VOLTAGE (DATA) OPTIONS:

DMX512:

- Multiple DMX outlets reduce the quantity of external DMX cables between lights (this makes the rigging neater and reduces the effort needed to add or remove lights along the bar).
- Optional integrated DMX distribution provides 8 isolated outlets along the bar.

Other ELV Options:

- Neutrik D panel mount connectors (Speakon, XLR3, BNC, etc).
- Neutrik A panel mount connectors.
- Custom outlets can be manufactured.



Neutrik NE8FX-Y6-B

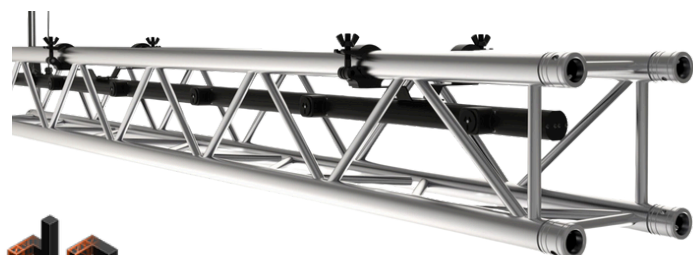
SUSPENSION OPTIONS:

- Top hat bracket (M12) for threaded rod suspension (default).
- Eyebolt for wire rope / chain suspension.
- Wall brackets for horizontal mounting.
- Wall brackets for vertical mounting.
- Truss mounting brackets for tri/box truss (truss services distribution).



F30 SERIES INTERNAL TRUSS ADAPTOR

TOP HAT SUSPENSION BRACKET



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DMX OPTIONS

	Outlet Connector	Cable	Inlet Connector	Capacity
Individual Outlets (1pr)	XLR5F	1pr RS485	XLR5M Line	3 Cables (3 outlets)
Individual Outlets (2pr)	XLR5F	2pr RS485	XLR5M Line	2 Cables (2 outlets)
DMX512 over UTP (ESTA pinout)	2 x XLR5F	Cat5e UTP	Ethercon	2 Cables (4 outlets)
DMX512 over STP (non ESTA pinout)	4 x XLR5F	Cat5e STP	Ethercon	2 Cables (8 outlets)
Multicore Shielded Twisted Pair	6 x XLR5F	UNITRONICLIYCY	Terminal Box	1 Cables (6 outlets)

ETHERNET OPTIONS

	Outlet Connector	Cable	Inlet Connector	Capacity
Cat5e	Neutrik NE8FDX-Y6-B	Cat5e	Neutrik NE8MX-B	2 Cables
Cat6A UTP	Neutrik NE8FDX-Y6-B	Cat6A UTP	Neutrik NE8FDX-Y6-B	2 Cables
Cat6A STP	Neutrik NE8FDX-Y6-B	Cat6A STP	Neutrik NE8FDX-Y6-B	2 Cables

Finish Options:

- Default finish: Black anodised aluminium extrusion, black fittings, outlets and accessories.
- Optional finishes:

- ▶ Mill finish aluminium extrusion.
- ▶ Powder coated aluminium extrusion.
- ▶ White fittings and accessories.

DEFAULT CONFIGURATION

- Black finish.
- Top hat brackets for M12 threaded rod suspension (quantity supplied to suit 2m centres, locations adjustable on installation).
- Cable inlet glands 500mm from stage right.
- 2m cable tails for mains and data inlets.
- Australian 10A panel mount mains outlets evenly distributed along bar, upstage side.
- Single DMX outlet stage right (5 pin XLR), downstage side.



F40 SERIES INTERNAL TRUSS ADAPTOR