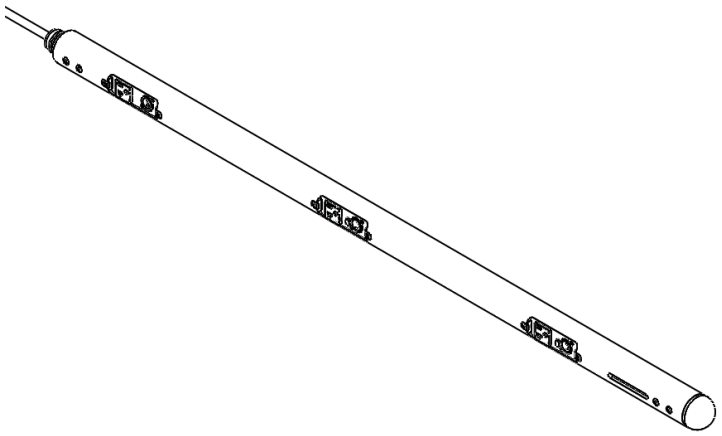
THE LIGHT SOURCE, INC.

MADE IN THE USA

MEGABATTEN

Connector Strip



INSTALLATION MANUAL

BEFORE YOU BEGIN

READ THESE INSTRUCTIONS COMPLETELY AND CAREFULLY

⚠ WARNING/AVERTISSEMENT

RISK OF ELECTRIC SHOCK

- TURN POWER OFF BEFORE INSPECTION, REPAIR, INSTALLATION, OR REMOVAL.
- PROPERLY GROUND ELECTRICAL ENCLOSURE.
- FOLLOW ALL NEC AND LOCAL CODES.
- USE ONLY UL APPROVED WIRE FOR INPUT OUTPUT CONNECTIONS.

RISQUES DE DÉCHARGES ÉLECTRIQUES

- COUPEZ L'ALIMENTATION AVANT D"INSPECTER, INSTALLER OU DÉPLACER LE LUMINAIRE.
- ASSUREZ-VOUS DE CORRECTEMENT METTRE À LA TERRE LE BOÎTIER D'ALIMENTATION ÉLECTRIQUE.
- RESPECTEZ TOUS LES CODES NEC ET CODES LOCAUX.
- N'UTILISEZ QUE DES FILS APPROUVÉS PAR UL POUR LES ENTRÉES/SORTIES DE CONNEXION.

⚠ CAUTION

ALL MECHANICAL AND ELECTRICAL CONNECTIONS ARE TO BE MADE BY QUALIFIED INDIVIDUALS FAMILIAR WITH LOCAL CODES, CONSTRUCTION PRACTICES, AND THE HAZARDS INVOLVED.

SAVE THESE INSTRUCTIONS

USE PRODUCT ONLY IN THE MANNER INTENDED BY THE MANUFACTURER. IF YOU HAVE ANY QUESTIONS, PLEASE CALL

THE LIGHT SOURCE, INC. 704-504-8399.

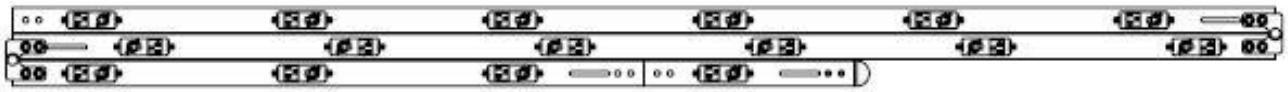
PREPARING FOR ASSEMBLY

Before starting the assembly process please check the contents against all provided drawings for completeness. Splice set screws are shipped in a bag secured to the MEGABATTEN. While unloading your MEGABATTEN check for damage that could occur during shipping.
Prepare an Adequate space to assemble your MEGABATTEN. When fully assembled the MEGABATTEN will be difficult to move, so assembly near the final install location is suggested.

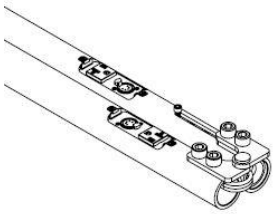
ASSEMBLY

Assembling the MEGABATTEN Connector Strip

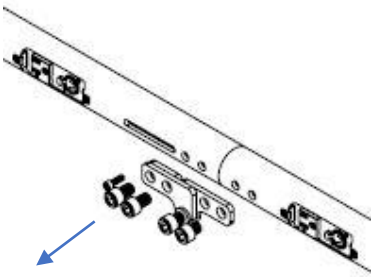
When you receive your MEGABATTEN it will be folded at the hinges for shipping.



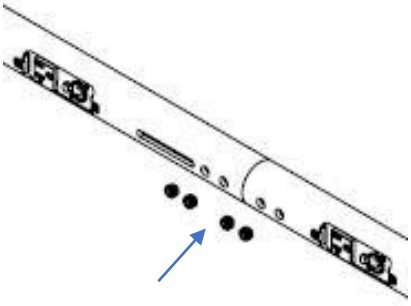
Carefully unfold the batten at the hinges ensuring that the internal wires do not get pinched.



When the batten is unfolded use a 3/8” hex key wrench and loosen the hinge bolts. Slide the splices into place, a ¼” cap screw is provided to use as a handle. Remove the bolts securing the hinges, once removed discard the hinges and the bolts that were securing the hinges. Then install the provided 1/2” set screws to secure the splices in the installed position. Once the splices are installed use a 3/16” hex key wrench to remove all ¼” cap screws from the splices and discard.



REMOVE HINGE
AND HARDWARE



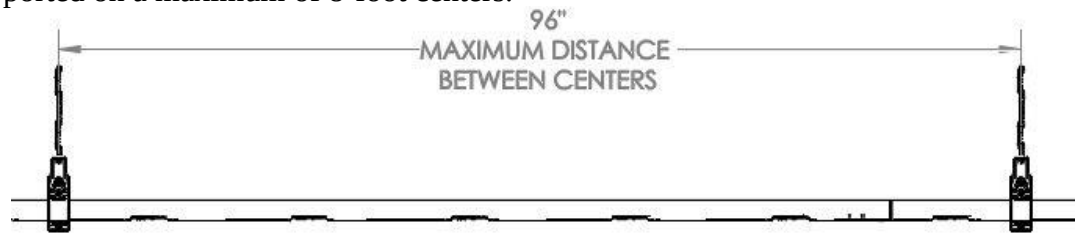
INSTALL ½
SET SCREWS

Once the batten has all the splices installed it is ready to be installed into position.

INSTALLATION

Mechanical Installation of the MEGABATTEN

The MEGABATTEN has been designed to be installable using all industry standards with regards to batten installation. The 1.5” MEGABATTEN is listed to support a load of 30 pounds per linear foot when supported on a maximum of 8-foot centers. The 2” MEGABATTEN is listed for 50 pounds per linear foot when supported on a maximum of 8-foot centers.



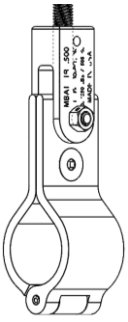
CAUTION! PRIOR TO INSTALLATION VERIFY WITH A STRUCTURAL ENGINEER THAT SUPPORTING STRUCTURAL ELEMENTS ARE CAPABLE OF SUPPORTING THE MEGABATTEN AT MAXIMUM LOAD. PLEASE ENSURE THAT RIGGING IS IN COMPLIANCE WITH LOCAL BUILDING CODES AND SAFETY PRACTICES.

We recommend the following hardware for a Dead Hung Batten installation.

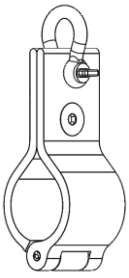
Mega-Folding Batten Clamp

Rated for 1675 Lbs. the Mega-Folding Batten Clamp is hinged for convenience and uses a single 7/16” hex bolt to secure a Light Batten. It has a ½” clearance hole for Rigging Hardware.

Mega-Folding Batten Clamp



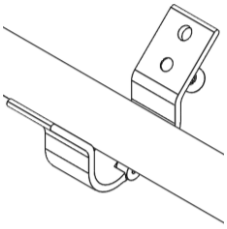
Mega-Folding Batten Clamp with threaded rod adapter. Options available for 1/2” or 3/8” threaded rod.

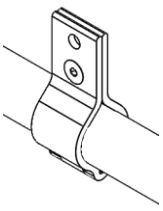


Mega-Folding Batten Clamp with 5/16” shackle for wire rope and chain rigging applications.

Installation using the Mega-Folding Batten Clamp

1. First identify all rigging positions where the MEGABATTEN will be supported.
2. Assemble the Mega-Batten Clamp around the MEGABATTEN.
3. Attach the rigging hardware to the Mega-Batten Clamp.
4. Verify the orientation of the MEGABATTEN then tighten all hardware.





MAKING ELECTRICAL CONNECTIONS

ELECTRICAL CONNECTIONS MAY ONLY BE MADE BY INDIVIDUALS FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THIS PRODUCT AND THE HAZARDS INVOLVED.

Connecting Power

There are four options for Power input into the batten.

19 Pin Male Circular Connector (Socapex) – This connector comes pre-wired ready to connect to a female connector

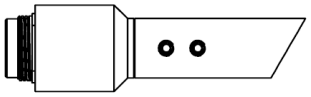
SO Cable – Depending on the number of circuits determines the number of conductors, either 12/3, 12/4, or 12/5. The length of cable extending beyond the batten is fixed at the factory according to approved drawings. A connector is not supplied so choose a connector that will meet code requirements in your area.

Terminal Box – The batten will have a terminal box affixed to the end of the batten. Inside will be a terminal strip for connection of building wires.

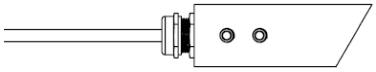
Extended Internal Conductors – The end of the batten has a fitting threaded to accept ¾" electrical fittings. The conductors will need to be enclosed in conduit provided by others. Each power circuit will have a hot and neutral conductor (up to six circuits), and there will be one ground that is shared by all circuits. Connection to building power should be done by a licensed electrician. See the color code chart for circuit conductor colors.

POWER WIRING DIAGRAM CHART		
CIRCUIT 1	LINE 1	BLACK
	NEUTRAL 1	WHITE/BLACK
CIRCUIT 2	LINE 2	RED
	NEUTRAL 2	WHITE/RED
CIRCUIT 3	LINE 3	ORANGE
	NEUTRAL 3	WHITE/ORANGE
CIRCUIT 4	LINE 4	YELLOW
	NEUTRAL 4	WHITE/YELLOW
CIRCUIT 5	LINE 5	BLUE
	NEUTRAL 5	WHITE/BLUE
CIRCUIT 6	LINE 6	BROWN
	NEUTRAL 6	WHITE/BROWN
GROUND	SHARED	GREEN

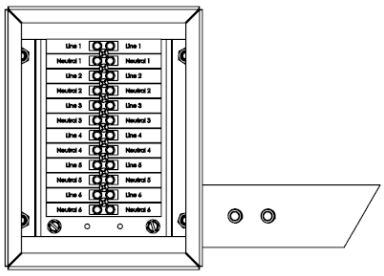
DMX WIRING DIAGRAM CHART		
PIN 1	COMMON	SHIELD
PIN 2	DATA (-)	WHITE
PIN 3	DATA (+)	ORANGE / WHITE STRIPE



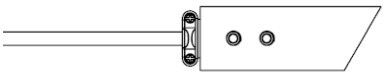
19 Pin Connector



SO Cable



Terminal Box



Extended Internal conductors

MAINTENANCE AND REPAIR

Maintenance

The MEGABATTEN requires very little maintenance once installed. The MEGABATTEN has a powder coat finish so it can be wiped down with a damp cloth to remove accumulated dust. In the event of a damaged outlet turn off power to the MEGABATTEN, a replacement can be ordered and can be repaired on site by a qualified individual.

Edison Connector Replacement

Remove the two screws holding the plate to the batten. Pull up on the plate, there should be enough wire to raise the plate high enough to remove the back plate from the connector. The Edison connector is an insulation displacement style connector so the wires can be pushed back into the pipe to release them from the connector. First pry the back cover off the connector, then release the wires. Pop out the main body of the connector from the plate. Install the new connector body into the plate, the ground pin is next to the data connector. Fit the wires into the grooves in the body of the connector. Insert the cover into the body, it will only go in one way, the cover is labeled with the wire color. Press the cover into the body firmly, a pair of Channel Locks are recommended. Reassemble the plate into the batten

Data Connector Replacement

The DMX connectors have been color coded for

White XLR Entry board with a male connector

Blue XLR Out board with female connector

Red XLR Out board Terminated with female connector

If you have RJ45 Ethercon connectors then there are 2 choices of circuit board

Black Output/Input board

Yellow Output Terminated

The terminated boards are always the last plate in the DMX stream, in a single DMX stream this will be the last output plate. In a batten with more than one DMX stream the last plate in the first stream will have a label “TERMINATED” next to it.

Replacement of the Data boards requires de-soldering and soldering of the data wires into the board. Remove the plate from the batten and expose the data pcb. Remove the wires from the bad board and solder them back into the new board. See the chart for the pcb label to signal type. The Rev C Blue boards are notched where the wires are soldered to the board. You need only soften the joint and the wires will easily separate from the board.