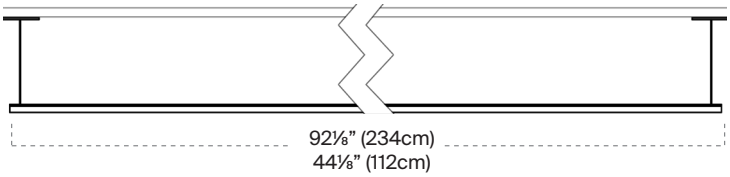
K-BEAM™ INSTALLATION INSTRUCTIONS

TRACK

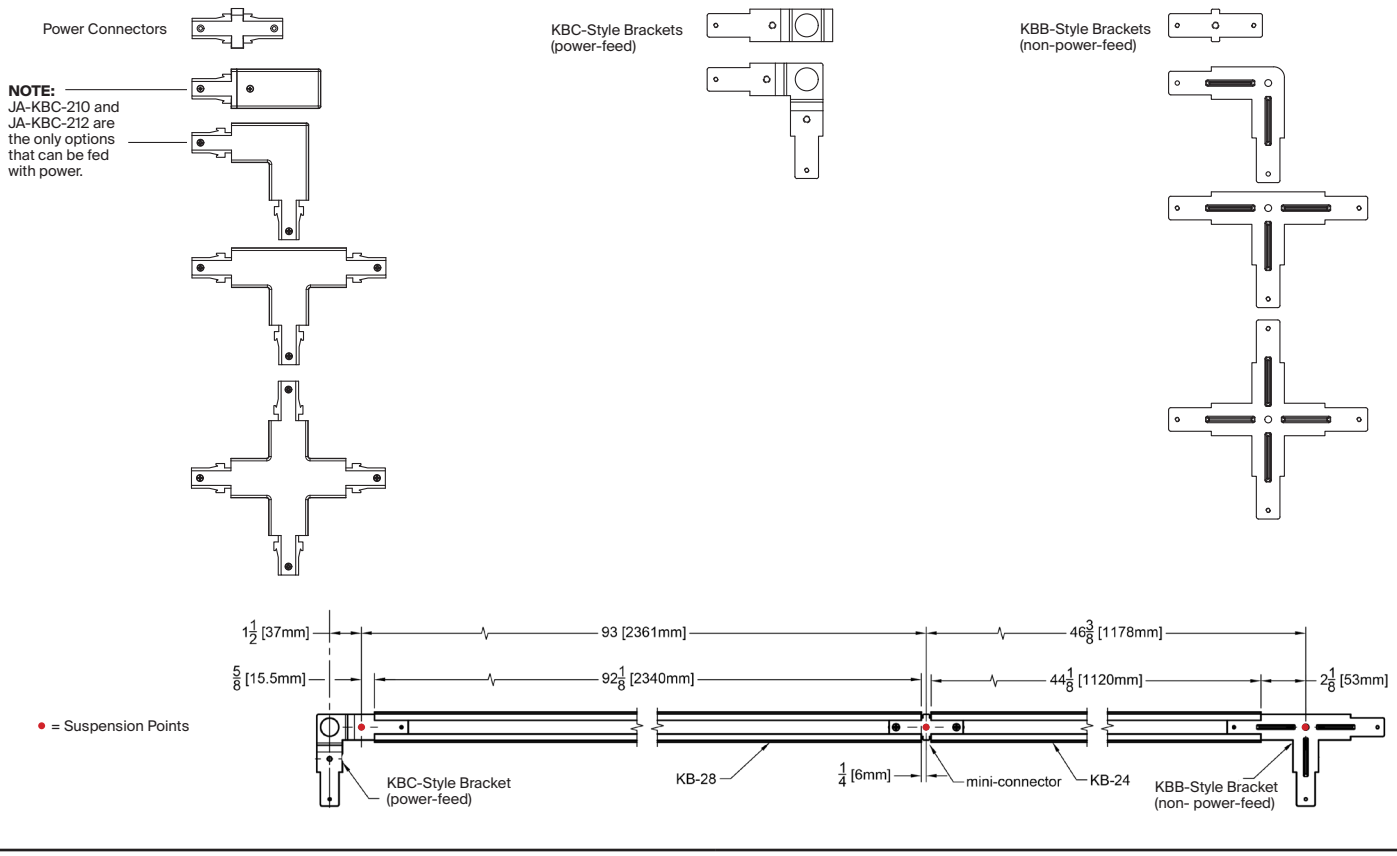
Versatile 2-circuit, 120V rated commercial grade track sections. 40 amp capacity; 20 amps per circuit. Two (2) hot conductors and one common neutral. Split lighting loads over one run of track for higher wattage output per running foot of track.



IMPORTANT SAFETY INSTRUCTIONS

- Read all the instructions before installation.
- Save instructions for later use.
- Turn off power at the fuse or circuit breaker box before installation or before doing any maintenance work.
- Wear rubber soled shoes and work on a sturdy wooden or non-conductive ladder.
- Product must be mounted in locations and at heights in a manner consistent with its intended use, and in compliance with National Electrical Code and local building codes. For indoor use only.
- Do not exceed the nominal supply voltage or amperage ratings.
- Do not install any fixtures or lamps closer than 6" from any curtain or similar combustible material.
- Installing contrary to instructions may cause unsafe conditions.
- **WARNING:** Risk of fire. Most dwellings built before 1985 have supply wire rated at 60°C. Consult a qualified electrician before installation.
- **CAUTION:** To reduce the risk of fire and electrical shock, use only fixtures and fittings intended for use with the Lumenture K-Beam™ system. Do not exceed the nominal supply voltage or amperage rating.

CONNECTION ACCESSORIES



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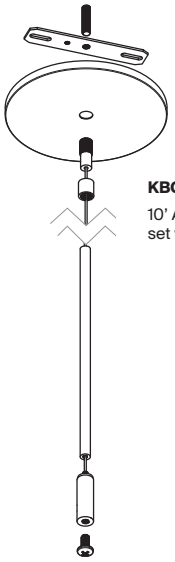
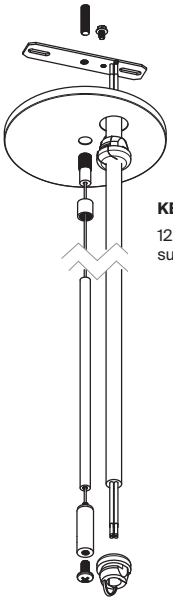
CONNECTION ACCESSORIES



KBC-10AC
10' Aircraft Cable
set with Canopy

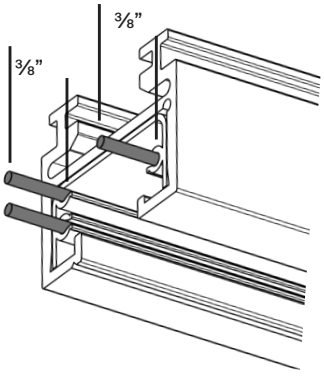


KBC-10PF
12/4 SJT, 10' Power Cord and
support assembly with Canopy

FIELD CUTTING INSTRUCTIONS

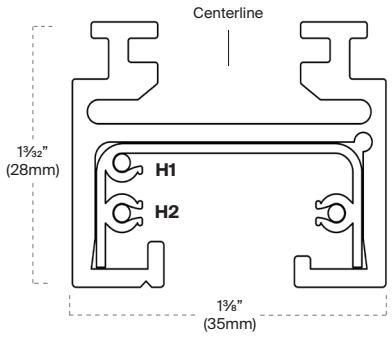
If track is cut in the field, the following steps must be completed for the track to function properly:

1. Aluminum track and plastic insulator must be the same length.
2. After cutting track to the proper length, all copper conductors must be cut back ⅜" from each end to prevent arcing and allow couplings and power feeds to be inserted completely.
3. Follow all other instructions for installing track once the cuts have been completed. Make sure to continue to follow polarity.



DRILLING INSTRUCTIONS

1. When a new mounting hole is required, it must be placed on the K-Beam™ centerline. If the new hole is a the end of the section, it must be at a minimum 2" from the end of the section and at a maximum 6".
2. Locate and drill a ¼" diameter hole through K-Beam™ and insulator. Carefully de-burr the hole and make sure that there are no chips or fillings remaining within the track.



SUSPENSION KIT INSTALLATION

NOTE: K-Beam is approved for mounting with two suspension cables, mounted up to 8' apart. On continuous runs or at intersections, only one mounting cable is required. It may be necessary to mount or construct additional supports at the required suspension location to ensure proper installation. **It is very important that exact centers for the supports are provided. Failure to do so will result in considerable difficulty with the final alignment.** Additional support materials are not included and must be provided by others.

NOTE: Instruct the installer to ensure that after installation, the powercord:
a. Is visible over its entire length.
b. Does not drape below the horizontal plane of the track.
c. Is not secured to the building structure.

KBC-10AC INSTALLATION

1. Install straight bracket to the junction box using (2) #8-32, 1¼" screws (fig. 1).
2. Insert threaded rod into the center mounting hole leaving ⅝" below the ceiling plane (fig. 2).
3. Thread the aircraft cable through the coupler/knurled nut and raise the canopy cover to the ceiling (fig. 3).
4. Thread the coupler onto the threaded rod (fig. 4).
5. Thread the knurled nut onto th cable coupler until the canopy cover is flush with the ceiling (fig. 5).

   NOTE: The aircraft cable should be properly centered above track connection hole and perpendicular to the track to avoid unnecessary stress on the suspension connections.

KBC-10PF INSTRUCTIONS

1. Properly wire the SJT 12/4 cable to the connections available inside of the junction box (fig. 6). Refer to wiring diagram.
2. Pass the wire through the wiring hole of the canopy cover and use the push-in strain relief to secure the cover to the wire (fig. 6).
3. Follow the installation steps of KBC-10AC above to complete the installation.

   NOTE: Ensure that the power cord is of sufficient length and is not providing support for the track.

FIGURE 1

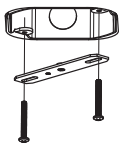


FIGURE 2

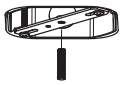


FIGURE 3

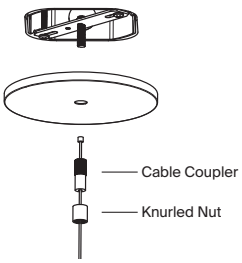


FIGURE 4

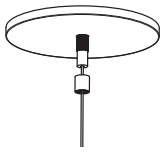


FIGURE 5

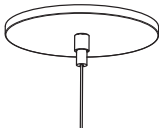


FIGURE 6

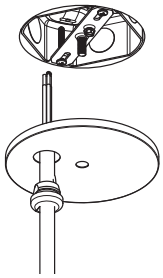
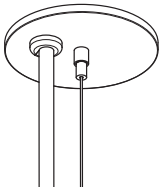
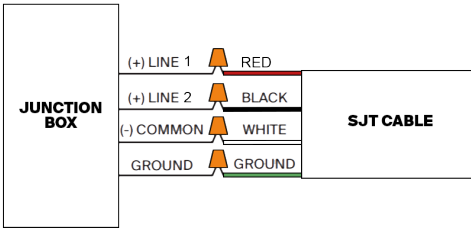


FIGURE 7



WIRING



MOUNTING BRACKET PREPARATION

1. Install cable gripper to bracket using supplied ¼”-20 screw (fig. 8 & fig. 9).
2. Run aircraft cable through the stabilizing rod (fig. 10).
3. Push aircraft cable through gripper and adjust the brackets to approximate height (fig. 11).
4. Screw stabilizing rod onto gripper (fig. 11).

   NOTE: Do not trim cable until final height adjustment is made.
4. Repeat these steps for all KBC-XXX and KBB-XXX brackets.

FIGURE 8

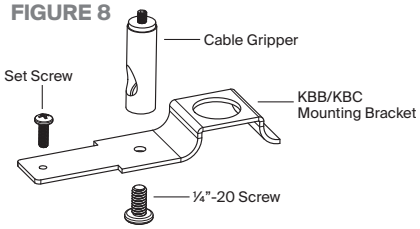


FIGURE 9

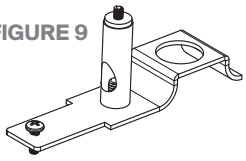


FIGURE 10

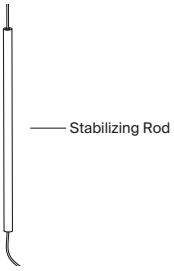
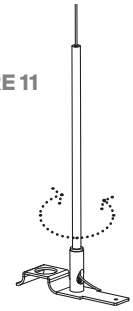
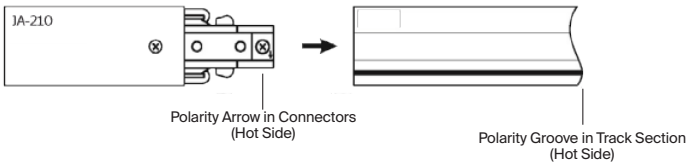


FIGURE 11



TRACK POLARITY ALIGNMENT

Line up polarity arrows with grooves, insert connectors into track sections to assemble components.



SECTION INSTALLATION

1. Remove the end caps for all connections except for at the end of the run (fig. 12).
2. Insert JA-series connector into the section that will be used to energize the system (fig. 13). Tighten the screw sufficiently so that the connector cannot easily be pulled out.

   NOTE: Remove the knockout on the rearside of the connector prior to the next steps.
3. Raise and install the section to the hanging brackets by inserting brackets into the top channel of the K-Beam (fig. 14) and tightening the set screw of KBB and KBC bracket (fig. 15). Repeat this step until all sections are hung and all joiner connections have been made.
4. The cable gripper at the end of the run will mount directly to the track. Locate the mounting hole and install the cable gripper using the supplied ¼-20 screw (fig. 17).

FIGURE 12

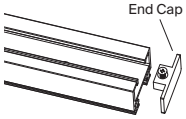


FIGURE 13

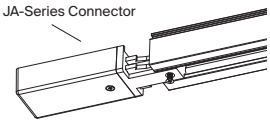


FIGURE 14

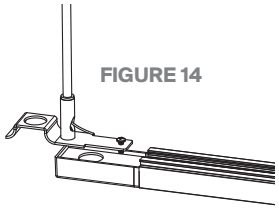


FIGURE 15

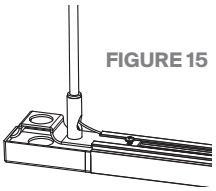


FIGURE 16

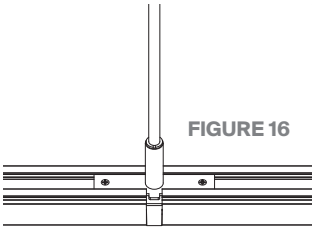
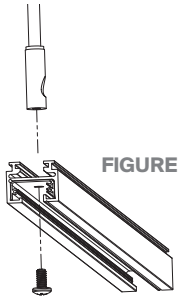


FIGURE 17



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WIRING

1. Remove the cover of the JA-style connector (fig. 18).
2. Trim the power cord to the appropriate length.
3. Strip the (4) 12GA wires and connect them to the correct wiring terminals located inside of the JA-style connector (fig. 18).

   NOTE: Terminals are marked for correct wiring (N, P, and G).
4. Use push-in strain relief to secure the 12/4 SJT cable to the KBB-style bracket (fig. 18).
5. Replace JA-style connector cover (fig. 19).

FIGURE 18

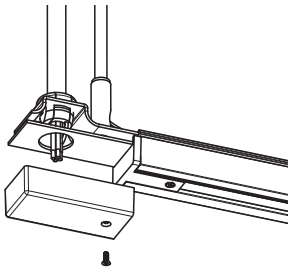
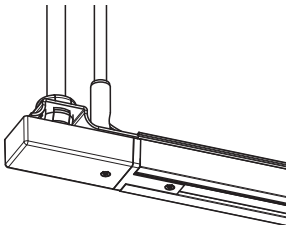


FIGURE 19



FINAL STEPS

1. Once all sections have been installed, check all connections and make necessary leveling adjustments.
2. Ensure all aircraft cables are properly centered above track connections.
3. Trim aircraft cable leaving 1” outside of the gripper (fig. 20).
4. System can now be energized.

FIGURE 18