



CAUTION

• Read all instructions.

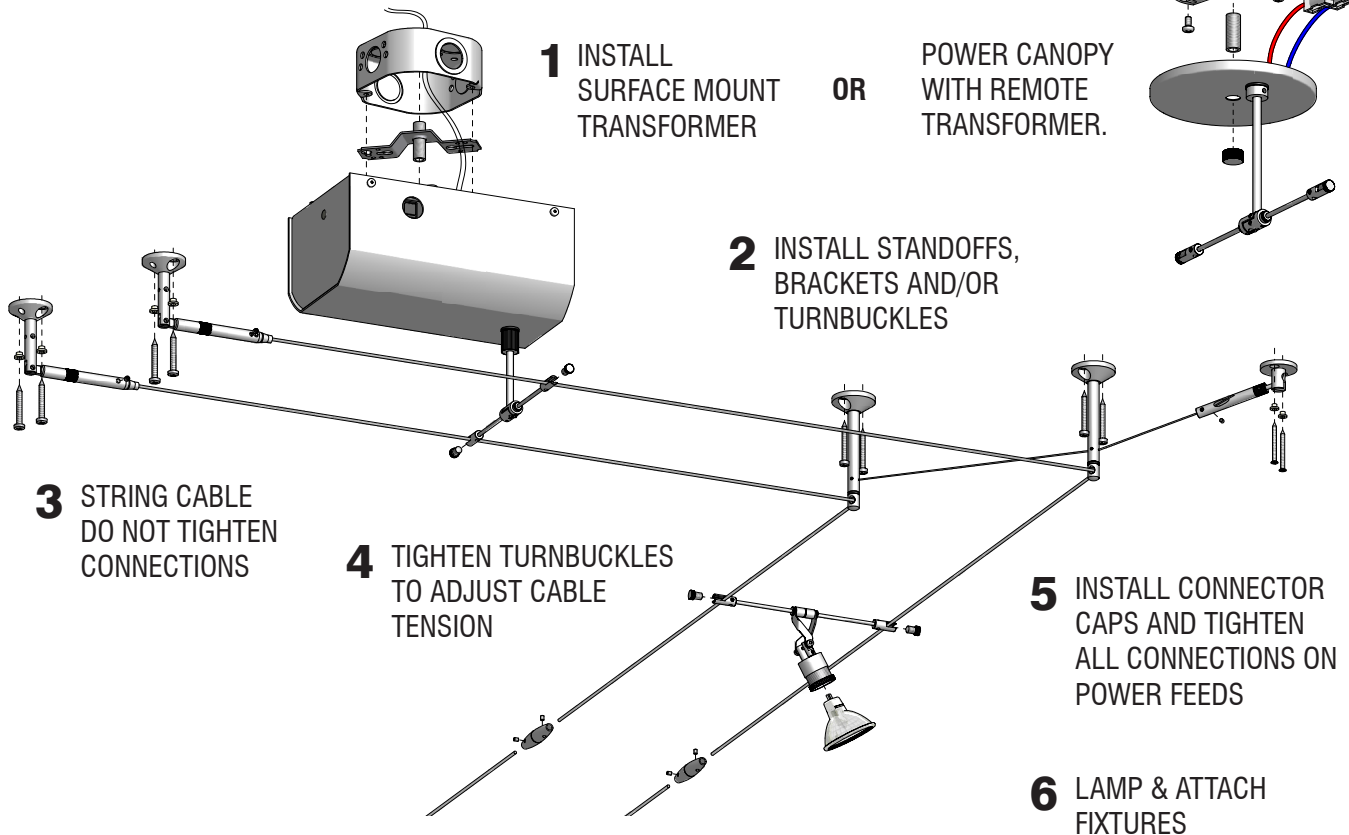
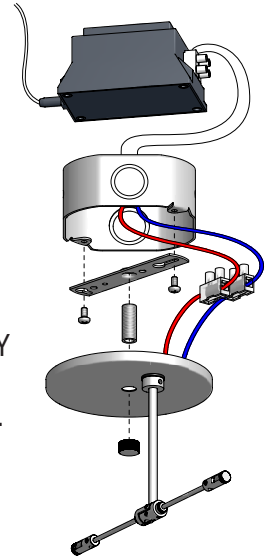
- **WARNING: RISK OF FIRE OR ELECTRICAL SHOCK:** Do not make or alter any openings in the compartment of wiring or electrical components during installation. Do not alter or add ballasts, or any other electrical components.
- Installation and use of this fixture mounting assembly requires a person familiar with the construction and operation of luminaire electrical systems and the hazards involved, if not qualified, do not attempt installation.
- Turn off power before installation.
- Ensure all connections are tight to prevent a short circuit from occurring.
- Do not move fixture along cable while power is on.
- Avoid mounting turnbuckles or brackets to metal studded walls. This will cause the system to short.
- Always test installation. Leave system on for 20 - 30 minutes after installation to perform test.
- **KEEP THESE INSTALLATION INSTRUCTIONS.**

CS System

Installation Instructions

Cable System Installation

Lay all fixtures and hardware out on floor prior to installation to ensure you have all the necessary components. Review application plan. Plan should include location of power supply, mounting hardware and fixtures.



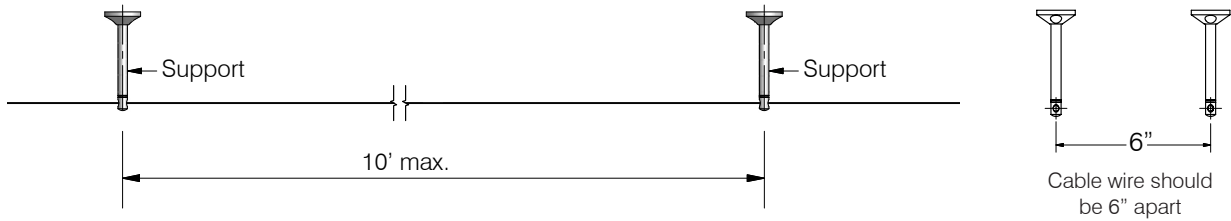
1 Install transformer and/or power feed. Leave connector cap screws out until cable has been installed and adjusted. Please refer to instructions for *CS Surface Mount Transformer* or *CS Power Canopy (Remote Transformer)*.

2 Install standoffs, brackets and/or turnbuckles. There are several options for supports. Please refer to specified hardware instructions for installation details.

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Position reinforced cable wire 6" apart and standoffs every 10' maximum to reduce sagging of cable wire. Flexible power canopies (CPY003) cannot be used as a standoff support.

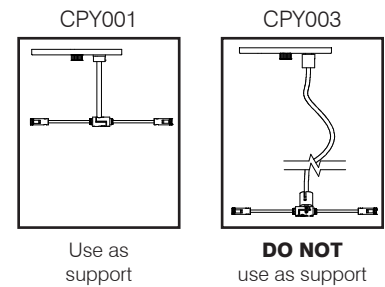


3 String reinforced cable wire, feeding ends into turnbuckles and wall brackets. Fasten the cable ends to the turnbuckles and wall brackets by tightening setscrews with the Allen key. Ensure all setscrews are tight to minimize deflection. Micro tension the cable wire by adjusting the turnbuckles hand thread. When installing more than one circuit, an in-line insulator (INS001) should be used to isolate the circuits. Only after wire tension is adjusted install connector cap screws, ensuring power canopy or surface mount transformer are securely fastened onto cable. For more detail see *CS Connector Installation Instructions*.

4 Lamp, then position fixtures on cables and tighten connectors.

Test Installation

When all steps are complete turn power on and run a test. Leave system on for 20 - 30 minutes. Heat indicates a loose connection. Touch all connections on the system to see if any are warmer than your body temperature. If a connection is very warm, turn off system and retighten that connection. Repeat the test.



System Tips

- Cable wire is 10 AWG tin plated copper bare or insulated.
- The system is rated for maximum load of 300W on each circuit.
- Reinforced parallel cable wire should be 6" apart. Standoffs should be spaced apart 10' maximum to reduce sagging of cable wire.
- Rigid power canopies (CPY001) can function as supports. Do not use flexible power canopies (CPY003) as supports.
- Supported standoffs (SDF003) are used to keep tension on cables when making a run with a 90° turn.
- In-line turnbuckles (TBK001-C) and in-line insulated turnbuckle (TBK001-I) should be used for system runs over 30' to reduce the amount of deflection and maintain wire tension.
- It is recommended to use a laser plumb to position standoffs accurately and conveniently.
- Always use minimum #12 gauge wire (stranded wire preferred) on secondary.
- Consider voltage drop when positioning remote transformers.
The length of the rail run will depend on the distance from the transformer and the wattage load.
Wire gauge will depend on the distance of remote transformer. 10' away use #10 gauge wire. 15 - 20' away use a #8 gauge wire.
- Low voltage transformers need a minimum 50W load in order to get a voltmeter reading.
- Magnetic transformers should be used with low voltage magnetic dimmers.
- Electronic transformers should be used with low voltage electronic dimmers.



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