



**Coronet HQ**  
55 Shepherds Lane  
Totowa, NJ 07512

**Coronet Showroom**  
54 W 21st Street, Suite 909  
New York, NY 10010

# DMX Critical Installation Information

Coronet offers a DMX driver option to allow control of more advanced systems such as RGBW LED and Tuneable White LED fixtures. DMX has been in use, primarily in theatrical settings, since 1990 but its inclusion in the architectural market is more recent. As such, familiarity with the requirements of DMX are not widely standard in the industry.

DMX is extremely specific in its installation requirements and all aspects must be followed completely or the system will not function as intended.

This document will list the "rules" of DMX and then provide information as to how to apply these in the field. **THE INSTALLING CONTRACTOR MUST ENSURE THE FIELD INSTALLATION MEETS ALL CRITERIA DESCRIBED BELOW.**

## The Rules

Here are the rules of installing DMX in a simple list (more detail follows):

1. DMX runs must use "Twisted, shielded pair wiring" such as Belden 9841. Cat 5e is also acceptable. DMX is 3 wires and all 3 must be used.
2. DMX runs MUST BE DAISY CHAIN wiring! No "Star", "Tree", "Bus", "Y" or "T" wiring is permitted. See the next page for examples.
3. The total length of the DMX run from the controller to the end of the last fixture can not exceed 1,000ft.
4. A maximum amount of 32 devices can be connected to a single DMX line. The total length of the run should not exceed 1000 feet. In most cases 1 out of 32 devices acts as a controller. The rest are the controlled devices.  
If more devices are used in the installation, extra hardware such as an opto-splitters are required. (Provided by others)
5. NOTE: A driver and a fixture are two different pieces of equipment. A single fixture may be controlled by multiple drivers. Consult Coronet's shop drawings for the specific driver.
6. Contractor must install a terminator (120 ohm resistor) on the last driver in the system between the Data + and Data - terminals. Coronet will provide this resistor but cannot install it as site wiring conditions are not known.

## Coronet Fixture Specifics

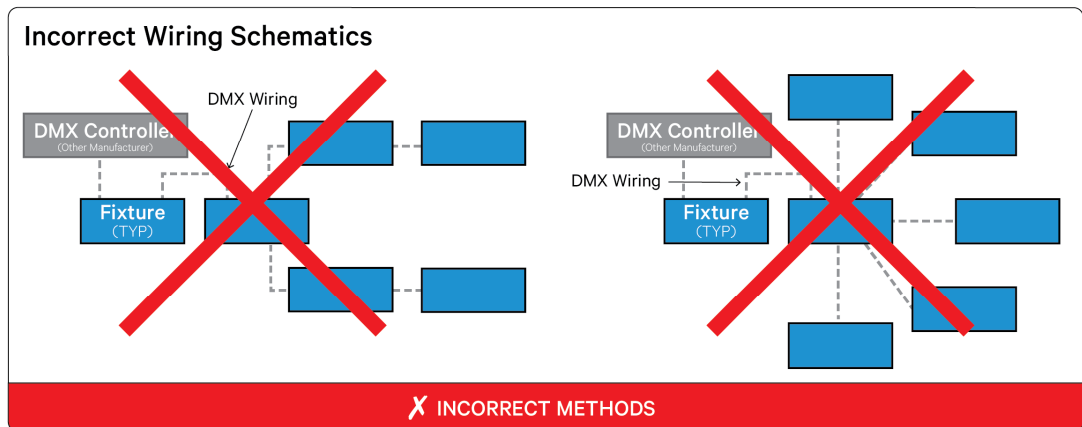
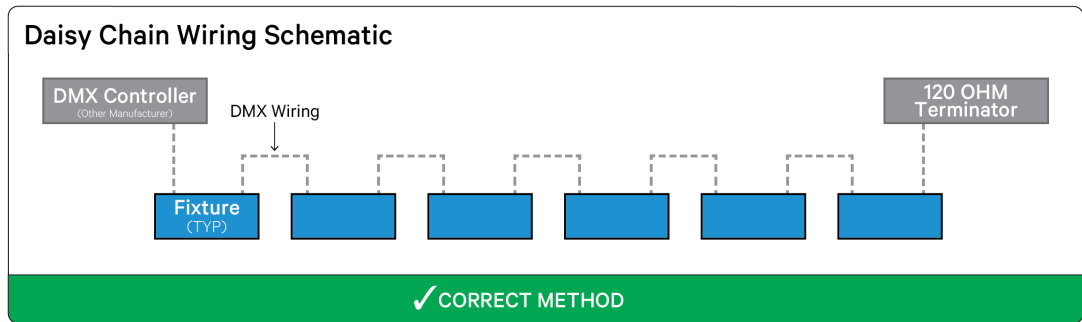
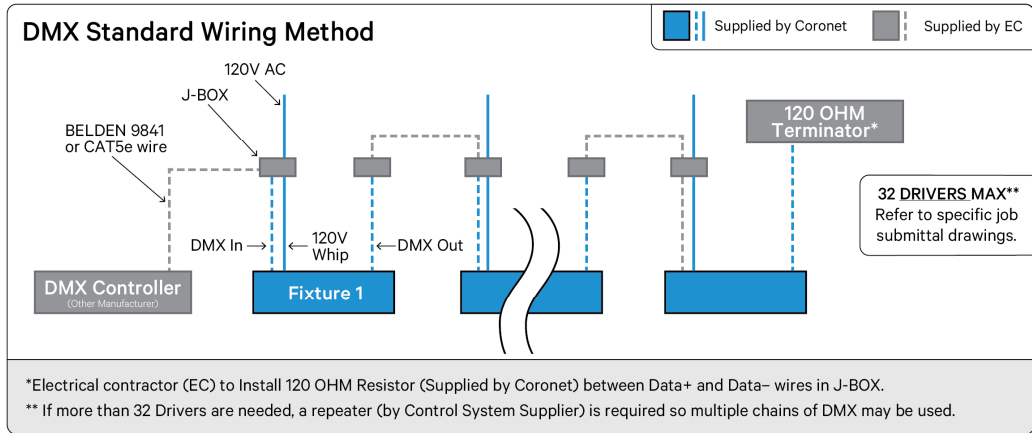
1. Coronet does NOT provide control systems. A compatible DMX/RDM system is required.
2. All fixtures are addressed at 001. The address can be updated via RDM on the control system.
3. Fixtures have DMX In and DMX Out whips and all must be connected to the DMX signal or terminated in the junction box.

**Tel** +1 973 345 7660  
**Fax** +1 973 345 8705

[info@coronetled.com](mailto:info@coronetled.com)

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