**IMPORTANT NOTES:**

3 DMX Addressing Options (Consult Factory)
- Factory Set
- USB/Software Interface
- DMX/RDM Device.

- Default Address are 1-3
- This driver is 3-channel driver, all 3 channels should be assigned. If needed can be set to 1-channel with USB tool.
- DMX Termination to be done with a 120ohm resistor on the driver. Across DMX+/DMX-.
- 32 Fixtures max per Data Run.
- DMX Cabling should be run between fixtures without the use of wire nuts, T or Y connectors.

- DMX is “daisy chain” wiring from one device to the next. A signal source (controller/processor of some type) starts the chain and it flows from there to each of the devices to be controlled.

- Use a good quality shielded cable, for example “Belden 9271 25 AWG 2C Twin Axial DMX Control Cable Shielded 124 Ohm” or select one from the list on the Table 1.

- **DO NOT LEAVE LONG ENDS.** Maintain the shielding and twists in the wire as close as possible to the terminations. (about 1” is ideal)

- **SPLICES ARE BAD, WIRE NUTS ARE WORSE.** If required solder them but best to avoid them completely.

### Recommended Cables

<table>
<thead>
<tr>
<th>Belden Part #</th>
<th>Impedance</th>
<th>Capacitance</th>
<th>Construction</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>9841</td>
<td>120 Ω</td>
<td>12.8 pF/ft.</td>
<td>One-pair</td>
<td>.232”</td>
</tr>
<tr>
<td>9842</td>
<td>120 Ω</td>
<td>12.8 pF/ft.</td>
<td>Two-pair</td>
<td>.340”</td>
</tr>
<tr>
<td>9843</td>
<td>120 Ω</td>
<td>12.8 pF/ft.</td>
<td>Three-pair</td>
<td>.360”</td>
</tr>
<tr>
<td>9844</td>
<td>120 Ω</td>
<td>12.8 pF/ft.</td>
<td>Four-pair</td>
<td>.390”</td>
</tr>
<tr>
<td>7200A</td>
<td>120 Ω</td>
<td>12.8 pF/ft.</td>
<td>One-pair</td>
<td>.240</td>
</tr>
<tr>
<td>7201A</td>
<td>120 Ω</td>
<td>12.8 pF/ft.</td>
<td>Two-pair</td>
<td>.322”</td>
</tr>
<tr>
<td>7202A</td>
<td>120 Ω</td>
<td>12.8 pF/ft.</td>
<td>Three-pair</td>
<td>.347”</td>
</tr>
<tr>
<td>7203A</td>
<td>120 Ω</td>
<td>12.8 pF/ft.</td>
<td>Four-pair</td>
<td>.362”</td>
</tr>
<tr>
<td>3105A</td>
<td>120 Ω</td>
<td>11 pF/ft.</td>
<td>One-pair</td>
<td>.284”</td>
</tr>
<tr>
<td>3107A</td>
<td>120 Ω</td>
<td>11 pF/ft.</td>
<td>Two-pair</td>
<td>.356”</td>
</tr>
<tr>
<td>3108A</td>
<td>120 Ω</td>
<td>11 pF/ft.</td>
<td>Three-pair</td>
<td>.420</td>
</tr>
<tr>
<td>3109A</td>
<td>120 Ω</td>
<td>11 pF/ft.</td>
<td>Four-pair</td>
<td>.420</td>
</tr>
</tbody>
</table>

### IMPORTANT NOTES:

**CAUTION:** Line Voltage may only be connected and installed by a qualified electrician. All applicable regulations, legislation and building codes must be observed. Incorrect installation of the device can cause irreparable damage to the device and the connected LEDs.

**Professional DMX installer should be used for all data connections and commissioning.

**WARNING:** To avoid possible electrical shock, fire, or equipment damage, never connect the LED input to the DMX input or vice versa. Always observe the polarity of the LED and DMX inputs. Incorrect polarity will result in no light output and may damage the LED.

**DIMMING FACTS FOR LED PRODUCTS**

**DMX in**

Use these connectors when the driver is used in a DMX network.
Connect the network cable’s DMX+, DMX- and DMX shielding wire (the orange/white, orange and brown wire in a CAT5 cable) to the DMX in+, DMX in- and DMX in shield connector respectively.

Please observe voltage drop over long cable lengths.

Longer cable lengths increase EMI susceptibility.

Download the software from your driver’s product web page and
connect a USB toggle to DMX in to configure your driver. (Consult)
You can configure:
• Various DMX parameters
• Dimming curve
• Minimum dimming level

**Wiring Diagram**

Pay attention when connecting the LED and DMX Cables:
polarity reversal results in no light output and often damages the LEDs

*Input/Output port should be shared for multiple fixtures. No T or Y Connections.

**DMX in & Out+**
**DMX in & Out-**
**DMX in & Out shield**

**Input**

**Output**

120-277 VAC

**TABLE 1** Recommended Cables

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