

# DMX 1CHANNEL DIAGRAMS/INSTRUCTIONS

## IMPORTANT NOTES:

- Factory Set
- USB/Software Interface
- DMX/RDM Device.

-Default Address 1

- This driver is 1-channel driver and can be re-addressed If needed with USB tool.

- DMX Termination to be done with a 120ohm resistor on the driver. Accross 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.

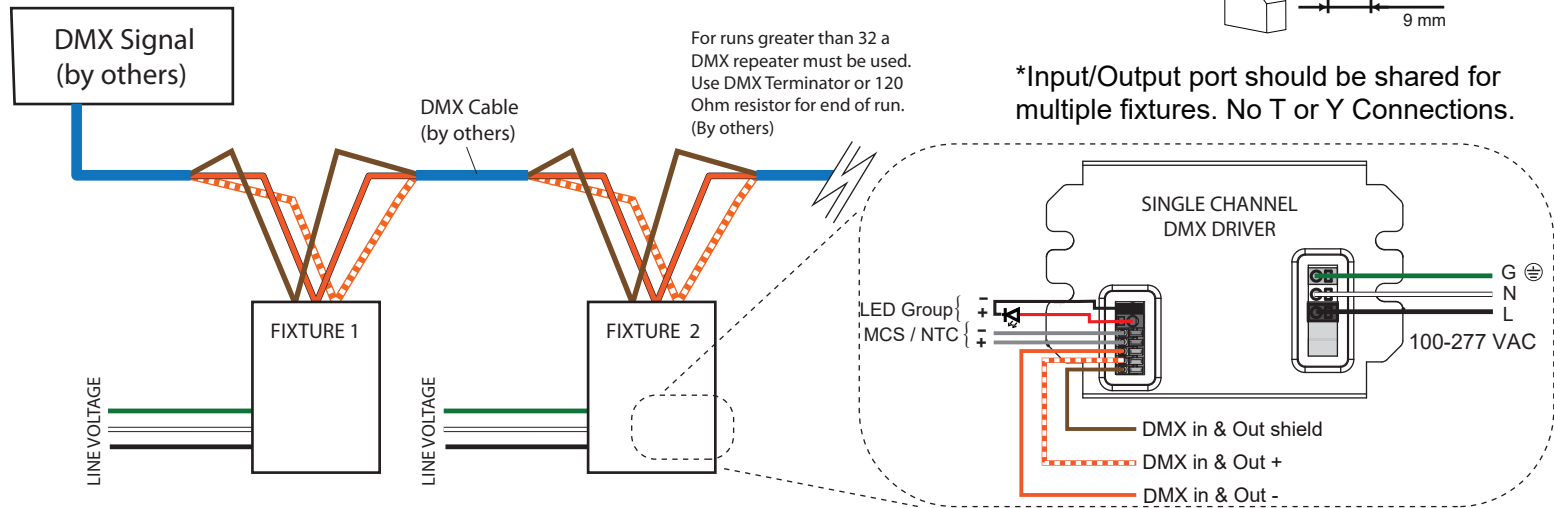
## Recommended Cables

(TABLE 1)

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

## Wiring Diagram

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



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



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.

## Configuring your driver over DMX in

Download the software from your driver's product web page and connect a USB dongle to DMX in to configure your driver. (Consult)

You can configure:

- Various DMX parameters
- Dimming curve
- Minimum dimming level

## 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.